Background Shallow Soil Summary Report
BMI Complex
and
Common Areas Vicinity

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Henderson, Nevada

Submitted to

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BACKGROUND SOIL SUMMARY REPORT

Basic Remediation Company
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Henderson, Nevada

Approvals:

JURAT: *I, Ranajit Sahu, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

LAB JURAT: *I, Ranajit Sahu, hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*

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JURAT: *I, Kirk J. Stowers, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

LAB JURAT: *I, Kirk J. Stowers, hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*

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ACRONYMS AND ABBREVIATIONS

ANOVA	Analysis of variance
bgs	Below ground surface
BMI	Basic Management, Inc.
BRC	Basic Remediation Company
CEC	Cation exchange capacity
CL	Concentration limit
DOE	U.S. Department of Energy
DQA	Data quality assessment
DVSR	Data validation summary report
Environ	Environ International Corporation
EPA	Environmental Protection Agency
ERM	Environmental Resources Management
GISdT	Guided Interactive Statistical Decision Tool
HSD	Honest Significant Difference
ICP	Inductively coupled plasma
IQR	Interquartile range
IRIS	Integrated Risk Information System
LCS	Laboratory control sample
MARLAP	Multi-Agency Radiological Laboratory Analytical Protocols Manual
MDC	Minimum detectable concentration
MDL	Method diction limit
mg/kg	Milligram per kilogram
MLE	Maximum likelihood estimation
MS	Mass spectroscopy
msl	Mean sea level
n	Sample size (number of samples)
Navy	U.S. Department of Navy
NBMG	Nevada Bureau of Mines and Geology
ND	Nondetect or censored
NDEP	Nevada Department of Environmental Protection
Neptune	Neptune and Company, Inc.

ACRONYMS AND ABBREVIATIONS (continued)

pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
QC	Quality control
RPD	Relative percent difference
Site	BMI Common Areas and Complex
SOP	Standard operating procedure
SQL	Sample quantitation limit
STL	Severn Trent Laboratories, Inc.
Tetra Tech	Tetra Tech EM Inc.
TIMET	Titanium Metals Corporation
TOC	Total organic carbon
UCL	Upper confidence limit
UTL	Upper tolerance limit
USDA	U.S. Department of Agriculture
VSP	Visual Sampling Plan
Workplan	Background Soil Sampling Workplan
WRS	Wilcoxon rank sum

1.0 INTRODUCTION

This report documents the collection and evaluation of analytical data for background soil that are considered representative of background[1] conditions at the Basic Management, Inc. (BMI), Complex and Common Areas in Clark County, Nevada. For simplicity, the BMI Complex and Common Areas are hereafter referred to in this report as the "Site." The BMI Complex includes the Titanium Metals Corporation (TIMET) facility and other industrial facilities. The BMI Common Areas include former TIMET, Upper, and Lower Ponds (see the Workplan in Appendix A, Figure 1). The former TIMET and Upper Ponds occupy the southern portion of the BMI Common Areas, and the Lower Ponds occupy the northern portion of the BMI Common Areas.

The background soil data were collected in accordance with the "Background Soil Sampling Workplan for BMI Common Areas and Complex Vicinity" (Workplan) dated April 2005 (see Appendix A) (Environmental Resources Management [ERM] and Tetra Tech EM Inc. [Tetra Tech] 2005). The Nevada Division of Environmental Protection (NDEP) approved the Workplan with comments on May 27, 2005 (see comment letter from NDEP in Appendix A). The Workplan was prepared and implemented jointly by Basic Remediation Company (BRC) and TIMET, whose properties at the Site are located near each other and have similar geology and soil types. The general scope of work included the collection of soil samples from background areas upgradient of Site industrial areas and analysis of these samples for site-related metals, radionuclides, general chemistry ions, and soil characteristics.

This report summarizes the background soil investigation (Section 2.0), discusses statistical methods used on the data gathered during the investigation (Section 3.0), provides a summary

[1]The term "background" as used in this report is identical to the term used by Environ International Corporation (Environ) in its report of background conditions for the City of Henderson (Environ 2003) and is based on the U.S. Environmental Protection Agency's (EPA) Integrated Risk Information System (IRIS), which states, "Two types of background levels may exist for chemical substances: (a) Naturally occurring levels: Ambient concentrations of substances present in the environment, without human influence; (b) Anthropogenic levels: Concentrations of substances present in the environment due to human-made, non-site sources (e.g., automobiles, industries)."

and conclusions (Section 4.0), provides a statistical guidance (Section 5.0), and lists references used to prepare this report (Section 6.0). The project objectives, purpose, and site location and geographic setting are discussed below.

1.1 OBJECTIVES

The main objective of this study is the development of a representative background soil dataset that can be used to evaluate whether concentrations of site-related chemicals detected in Site soil samples statistically exceed concentrations of these chemicals in background soil. Soil samples were collected from three depth intervals at each sampling location: surface soil (0 to 0.5 foot below ground surface [bgs]) and two subsurface depths (4 to 6 and 9 to 11 feet bgs). The background soil study collected data for site-related metals, radionuclides, and anions. Soil characteristics data were also collected for soil texture, pH, conductivity, cation exchange capacity (CEC), salinity, total organic carbon (TOC), and percent moisture to evaluate whether the background soil sampling locations are representative of Site soil characteristics.

Specific goals and comparisons proposed for the background soils study included the collection of data

- From sampled soil units that are representative of Site soils;
- That form a sufficient sample population that can be used to support statistical comparison of on-site and background datasets;
- That are sufficient to form more than one background dataset, if required, based on statistical comparisons of data from different geologic settings (origins) and depths;
- That could be used to evaluate the comparability of background data collected during this study to data collected by Environ International Corporation (Environ) for the City of Henderson (Environ 2003); and
- That could be used to evaluate the comparability of soil originating from geologic units in the northern McCullough Range and the River Mountains.

1.2 PURPOSE

The purpose of the background soil study is to develop a data set to support the statistical comparison of Site and background datasets that will be used in evaluating Site conditions during future investigations. This document is intended to be a working document that provides a validated background dataset along with extensive statistical summaries of the data. Descriptive summary statistics and a variety of statistical plots are included in this document to facilitate future evaluations of Site data and Site-to-background data comparisons. Selection of statistical tests for future comparisons will depend on site-or project-specific objectives and conditions. The background data in this report are referred to as the "BRC/TIMET dataset."

1.3 SITE LOCATION AND GEOLOGIC SETTING

The Site is located in Clark County, Nevada, approximately 2 miles west of the River Mountains and 1 mile north of the McCullough Range (see Figure 1 of the Workplan in Appendix A). The Upper Ponds occupy the southern portion of the BMI Common Areas, and the Lower Ponds occupy the northern portion of the BMI Common Areas. According to the Nevada Bureau of Mines and Geology's (NBMG) 1965 geologic map of Clark County, Nevada, the River Mountains and northern McCullough Range consist of tertiary volcanic rocks including dacites and andesites (see Figures 1 and 1a). The land surface slopes from east to northwest from the River Mountains and from south to northeast from the McCullough Range. Near the Site, the surface topography slopes north toward the Las Vegas Wash.

Based on the U.S. Department of Agriculture's *Soil Survey of Las Vegas Valley Area, Nevada,* the following soil types are present in the vicinity of the Site (USDA 1985):

- Caliza (map units 184 and 187): This soil type represents the dominant soil type in the immediate vicinity of the Site. Unit 184 is a very gravelly sandy loam and a very deep soil formed from different types of rock that forms in alluvium. Unit 184 soil generally forms on slopes of 2 to 8 percent. Unit 187 is present (1) west of the unit 184 occurrences west of the Site along the western boundary of the BMI Complex

and transecting the northwestern Lower Ponds, and (2) south of the BMI Common Areas and southeast of the BMI Complex. This unit is similar to unit 184 except that it is "extremely cobbly" sandy loam. Unit 184 is primarily located downgradient of the River Mountains and McCullough Range, and unit 187 is located north of the McCullough Range and also in the areas east-northeast of the McCullough Range and west of the River Mountains.

- Caliza-Pittman-Arizo (map unit 182): This soil type is located in a thick band east of the Site and transects the southeastern most corner of the Upper Ponds. This soil type also occurs south and adjacent to an area of unit 184 along the southern boundary of the BMI Complex. This soil consists of approximately 60 percent Caliza, 20 percent Pittman, 15 percent Arizo, and 5 percent Nickel soils on side slopes of erosional fan units. Caliza is a very deep soil formed from different types of rocks on erosional fan remnants. Pittman is a moderately deep soil formed from different types of rock on exposed remnants of alluvial fan deposits. Arizo is a very deep soil formed from different types of rock in channels on slopes of 0 to 8 percent. Unit 182 is located in areas northeast and east of the McCullough Range as well as west of the River Mountains.

- Arizo (map units 112 and 117): These soils are in localized areas south and east of the Site and extend east of the Upper Ponds. They transect the Upper Ponds east of the Beta Ditch. Arizo is a very gravelly loamy sand/very gravelly fine sandy loam and a very deep soil that formed on recent alluvium and in channels from various types of rock. Arizo generally forms on slopes of 0 to 8 percent.

- McCarran (map unit 326): This soil type is located northwest of the Lower Ponds south of the Las Vegas Wash. McCarran is a fine sandy loam/very cobbly fine sandy loam and a very deep soil formed from limestone and lacustrine sediments (high gypsum content) on relict alluvial flats. generally on slopes of 0 to 8 percent.

- Caliza-Pittman (map unit 181): This soil type is located near the base of the McCullough range within 0.25 mile southwest of the BMI Complex and approximately 1.5 miles southwest of the Upper Ponds. This unit consists of approximately 50 percent Caliza, 40 percent Pittman, and 10 percent Arizo (see descriptions of these individual components above for map unit 182). The USDA soil survey describes unit 181 as "extremely stony fine sandy loams" formed on erosional or exposed remnants of alluvial fan deposits derived from various kinds of source rock. This unit is described as deep to moderately deep and well drained.

A soils map reproduced from the 2004 USDA Soil Survey Geographic database shows that the soil type classification for the Upper and Lower Ponds area proper is map unit 600, "slickens," a non-native soil type (artificial fill)(USDA 2004). This term is presumed to reflect the non-native material observed in the ponds, which were used for waste disposal. The soil type classification

for the BMI Complex is map unit 615, "urban land." Native soils underlying the slickens and urban land units are assumed to be consistent with soils shown in map units for the surrounding area (primarily map unit 184 and, to a lesser extent, map units 112, 117, 182, 187, and 326). The USDA soils map is presented in Figure 2 of the Workplan in Appendix A and is based on the 1985 USDA soils survey (USDA 1985). The northern McCullough Range is the primary source of materials upslope of the BMI Complex and the western hook of the Lower Ponds.

Based on the locations of the soil units relative to the McCullough Range and the River Mountains, the topographic slope, and the dendritic geomorphology of the soil units, it is likely that these soils formed on alluvium derived from the weathered volcanic rocks of the McCullough Range and River Mountains. The primary and secondary mineral assemblages in these source rocks would be the primary contributor to background concentrations of metals, radionuclides, and anions in native soils; therefore, based on the similarity in soil descriptions and common parent materials for these soils, units 112, 117, 181, 182, 184, 187, and 326 are expected to exhibit similar ambient chemical concentrations downslope from both ranges.

Parent materials for soils beneath the Site and surrounding areas are presumed to be the following:

Soil Unit	Source Material
112	McCullough Range and/or River Mountains (location-specific)
117	McCullough Range and/or River Mountains (location specific)
181	McCullough Range
182	McCullough Range and/or River Mountains (location specific)
184	McCullough Range and/or River Mountains
187	McCullough Range and/or River Mountains (location specific)
326	McCullough Range

The similarity of chemical concentrations in background samples collected from soils downslope of the McCullough Range and the River Mountains was statistically evaluated after collection and validation of analytical data for the background soil samples. Analytical data from both the BRC/TIMET and Environ studies were used in this evaluation. A discussion of this comparison is presented in Section 3.4 of this report.

2.0 SUMMARY OF THE INVESTIGATION

This section discusses the sampling locations, procedures, analysis, and summarizes the results of data validation.

2.1 SAMPLING LOCATIONS

Soil samples were collected from 33 initial sampling locations on 11 undeveloped properties near and upgradient from the Site. Figures 1 and 2 in the Workplan in Appendix A show these 11 property locations as well as sampling locations for the 2003 Environ study.

The 11 properties and the sampling locations were selected because they exhibited the characteristics summarized below.

- They are off-site locations in relatively close proximity to the Site (see Figure 2 of the Workplan in Appendix A); however, they are upgradient and sufficiently distant from the Site so that impacts from Site operations are not likely.
- They are upwind of the Site (see wind direction plots indicating the predominant wind direction from the south and southwest in Table 2 of the Workplan in Appendix A) and thus unlikely to have been affected by aerial deposition of wind-borne dusts or vapors from Site operations.
- They are upslope of the Site and thus unlikely to have been affected by overland surface-water transport of potentially contaminated site sediments. The elevations of the background sampling locations are approximately 1,900 to 2,580 feet above mean sea level (msl), compared to the elevations of the BMI Common Areas (1,569 to 1,800 feet above msl) and BMI Complex (1,680 to 1,880 feet above msl).

Table 1 identifies the 11 properties, including sampling locations that represent the range of soil units found in the vicinity of the Site. Based on the information provided in Section 1.3, it is reasonable to assume that background soil samples collected from soil units 112, 117, 181, 182, 184, and 187 reflect background conditions for soils at the Site.

Table 1

Background Soil Sampling Locations

Property Area	Associated Mountain Range	Soil Unit from USDA Survey	Rationale for Inclusion in Data Pool
BRC-BKG-01 (A,B,C)[a]	McCullough	181	Unit comparable to units 182, 184, and 187 (Caliza-Pittman-Arizo and Caliza) found in the immediate vicinity of the Site.
BRC-BKG-02 (A,B,C)	McCullough	181	As above, unit comparable to units 182, 184, and 187
BRC-BKG-03 (A,B,C)	McCullough	181	As above, unit comparable to units 182, 184, and 187
BRC-BKG-04 (A,B,C)	McCullough	117	Unit found in the immediate vicinity of the Site.
BRC-BKG-05 (A,B,C)	McCullough	117	Unit found in the immediate vicinity of the Site.
BRC-BKG-06 (A,B,C)	McCullough	182	Unit found in the immediate vicinity of the Site.
BRC-BKG-07 (A,B,C)	McCullough	182	Unit found in the immediate vicinity of the Site.
BRC-BKG-08 (A,B,C)	McCullough	117	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-09 (A,B,C)	McCullough	117 / 182 / 187	Units found in the immediate vicinity of the Site.
BRC-BKG-10 (A, B, C)[b]	--	--	--
BRC-BKG-11 (A,B,C)	McCullough	184	Predominant soil unit in the immediate vicinity of the Site.
BRC-BKG-12 (A,B,C)	McCullough/River	112 / 182 / 117	Units found in the immediate vicinity of the Site; location planned to augment Environ sampling in vicinity (downslope of the McCullough Range and River Mountains)

Notes:

a Represents three borings installed at each background property (BRC-BKG-01A, BRC-BKG-01B, and BRC-BKG-01C).

b Property BRC-BKG-10 was originally identified but was removed based on input from NDEP. The identification numbers for the remaining 11 properties were retained as originally defined.

2.2 SUMMARY OF SAMPLING PROCEDURES AND FIELD RESULTS

Soil samples were collected from three borings (A, B, and C) drilled approximately 10 to 15 feet apart at each of the 11 properties using a hollow-stem auger rig. Surface soil samples were collected by hand using a stainless-steel shovel. Subsurface samples were collected from the drill core. Samples collected from each boring at each of the 11 properties are considered independent samples. Table B-1 (Appendix B) provides a summary of the sample collection event. Sampling and sample handling procedures for both sampling methods were generally consistent with the standard operating procedures (SOP) developed for the BMI Common Areas as provided in Appendix C of the "Final Hydrogeologic Characterization Workplan" (MWH Americas, Inc. 2003). Exceptions to the SOPs are noted in Table B-1, Appendix B.

For this study, surface soil is defined as the upper 0.5 foot of the soil horizon, and subsurface soil is defined as soil below 0.5 foot bgs. Subsurface soil samples were collected from each 2-foot interval of drill core (from 4 to 6 and 9 to 11 feet bgs) and homogenized in a stainless-steel bowl. Sample aliquots were collected from this homogenized soil and submitted for analysis as follows:

- Surface Soil: 0 to 0.5 foot bgs
- Subsurface Soil: 4 to 6 feet bgs; core homogenized
- Subsurface Soil: 9 to 11 feet bgs; core homogenized

Three borings were advanced at all 11 property locations, and three samples from each zone were collected for an initial total of 99 soil samples. Field conditions required relocating borings at property location BRC-BKG-05 because the auger could not be advanced to the proposed depth. At property location BRC-BKG-05, four surface and subsurface samples were collected from three borings installed before the auger could no longer be advanced. A second attempt to drill three soil borings at property location BRC-BKG-05 was successful, resulting in several additional samples for a final total of 104 independent samples and 3 split samples for quality

control (QC). The original boring is denoted using BRC-BKG-05, and the relocated borings are denoted using BRC-BKG-05R. In a few cases, the sampling interval was modified slightly based on field sampling equipment or conditions. Table B-1 in Appendix B summarizes the site locations, boring identification numbers, sampling intervals, and field observations. The soil boring logs in Appendix B represent each location, and one soil boring log was prepared to represent all three borings (A, B, and C) at each property.

2.3 SAMPLE ANALYSIS

The soil samples were submitted for analysis to Severn Trent Laboratories, Inc. (STL), in St. Louis, Missouri. Analyses were conducted at three STL laboratory locations in St. Louis, Missouri; Burlington, Vermont; and Richland, Washington. At the time of sample analysis, all three STL locations were NDEP-certified laboratories for the analyses conducted. Surface and subsurface sample analytical parameters included a full suite of metals, anions (chloride, fluoride, sulfate, and nitrate and nitrite), and radionuclides. Table 3 of the Workplan in Appendix A summarizes the individual analytes, analytical methods, and practical quantitation limits (PQL). These analytes and methods are consistent with the BRC and TIMET site-related chemicals list and analytical program previously established for the BMI Common Areas project (BRC 2006) and the TIMET site (Tetra Tech 2004), with input from the NDEP. Background soil characteristics were further evaluated for soil texture, pH, conductivity, CEC, salinity, TOC, and percent moisture. Appendix C presents the analytical data summary tables and analytical data.

2.4 DATA VALIDATION SUMMARY

Two soil background datasets were validated: the BRC/TIMET and Environ datasets. Two types of data validation were conducted, full and partial validation. The TIMET project team chemist conducted the data validation for the BRC/TIMET dataset, which included 10 percent full validation and 90 percent partial validation. A project chemist with NDEP's contractor, Neptune and Company, Inc. (Neptune), conducted a partial data validation of the Environ dataset. The

data validation findings for the BRC/TIMET and Environ soil background datasets are summarized in the following sections.

2.4.1 BRC/TIMET Dataset

As stated above, full validation was conducted on 10 percent of the BRC/TIMET dataset, and a partial validation was conducted on the remaining 90 percent. Stable chemistry (metals and anions) results for background soil samples were validated in accordance with the U.S. Environmental Protection Agency (EPA) guidance documents "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" and "Region 9 Superfund Data Evaluation/Validation Guidance" (EPA 2004b and 2001b). EPA has not standardized the validation of radionuclide data, so the reviewer relied on professional judgment and other sources for data qualification. Radionuclide data validation was conducted using several documents, including the EPA document "Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)" (EPA 2004a), the U.S. Department of Energy (DOE) reference document titled "Evaluation of Radiochemical Data Usability" (DOE 1997), QC requirements and criteria summarized in the applicable methods.

Based on data validation and review, data qualifiers were added to the electronic BRC/TIMET background database to signify if the data were acceptable, acceptable with qualification, or rejected. When applicable, result bias is indicated. In addition, for every data validation qualifier, a secondary comment code was entered to indicate the reason for qualification. The data validation summary report (DVSR) in Appendix D provides the definitions for the data validation qualifiers and comment codes used in the BRC/TIMET background database. Validation qualifiers and definitions are based on those used by EPA in current data validation guidelines (EPA 2004b). Appendix C presents the electronic validated background database.

A number of sample results were qualified as estimated based on the following issues (corresponding to Tables 5 through 13 in the DVSR in Appendix D):

- Holding time exceedances
- Laboratory blank contamination
- Spike sample recoveries (including matrix spike and laboratory control samples [LCS])
- Duplicate precision
- Stable chemistry results less than the required reporting limit or PQL
- Interferences indicated by serial dilutions results (listed as other stable chemistry qualifications)
- Radiochemical results less than the required reporting limit
- Extra results from less sensitive analytical runs

Results qualified as estimated may generally be usable for the purposes of establishing background concentrations and for comparison to Site-specific sample data; however, a total of 22 soil sample results in the BRC/TIMET background database were rejected and qualified as "R." Rejected results are presented in Table 14 of the DVSR (provided in Appendix D). The rejected results include pH and radium-228. The pH result was rejected due to holding time issues. Specifically, the pH analysis for one sample was conducted past the extended holding time of 14 days. The effect of extended holding times on soil pH analysis is uncertain; therefore, the result was rejected. Radium-228 results were rejected because of high LCS recoveries and concerns that the results were biased high, confirmed by comparison of radium-228 results to inter-element correlations. The rejection of radium-228 data resulted in an insufficient number of points to evaluate the mixed sample origin (location BRC-BKG-12).

The data validation indicates that the valid (not rejected) BRC/TIMET background dataset as reported in this document (and provided in electronic format in Appendix C) is usable for the intended purposes. With 98.5 percent of the dataset validated as usable, the overall objective of the data collection event was met.

2.4.2 Environ Dataset

As stated above, a partial validation was conducted on the entire Environ dataset by Neptune (NDEP's consultant because the analytical reports provided by the laboratory (STL) were in a format that includes results and QC summaries only. No raw data, instrument calibration data, instrument reporting criteria, or internal standard data were presented for review by Neptune. Stable chemistry sample results for the Environ background soil samples were validated in accordance with the "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA 2004b). Professional judgment and analytical method requirements were used to validate radionuclides data.

Based on data validation and review, Neptune prepared the validation summary memorandum included in Appendix D. The general conclusion is that the validated Environ dataset is suitable for inclusion in the overall soil background dataset based on data quality criteria with the provision that results for hexavalent chromium, radium-224, radium-226, and radium-228 in all samples not be used as discussed below.

The findings indicate that the hexavalent chromium results for the Environ dataset may not be accurate based on holding time exceedances. In this case, samples were analyzed 2 days after the 24-hour holding time (for a total of 3 days past sample extraction). It is recommended that the hexavalent chromium results in the Environ dataset be rejected and not used in the overall soil background dataset.

The Environ dataset for radium-224, -226, and -228 are considered suspect for several reasons, and their inclusion in the overall soil background dataset is not recommended. Specifically, it is unclear how the laboratory calculated the radioactivity of the radium-224 isotope. In addition, a lack of relevant QC information regarding radium-224 builds the case for rejection of results and exclusion of the results from the overall soil background dataset. Similarly, the radium-226 and

radium-228 results should be excluded from the overall soil background dataset. The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommended that this data be reevaluated or rejected. Since full data packages were not available for reevaluation, the data were rejected.

The data validation indicates that the Environ dataset as reported in this document is usable for the intended purposes except for the results for hexavalent chromium and the radium isotopes discussed above.

3.0 STATISTICAL METHODS

Exploratory data analysis and statistical evaluation of background soils data generally followed industry-standard guidance documents and sources from the technical literature (EPA 2000a and 2000b; U.S. Department of Navy 1999 and 2002; Gilbert 1987). These guidance documents discuss graphical presentation of data, selection and application of statistical test of hypotheses, calculation of summary statistics conduct of distributional testing, and treatment of censored (nondetect or ND) data. The following sections discuss data preparation, graphical presentations of data, calculation of descriptive summary statistics, and conduct of statistical tests and comparisons.

3.1 DATA PREPARATION

As discussed in Section 2.4 and Appendix D of this report, BRC/TIMET and Environ datasets were validated before the data were used in the statistical evaluation. All data (except outliers determined to be reporting errors, rejected (R-qualified) data, and QC data) were used in the statistical evaluation. The sections below summarize the details of data preparation.

3.1.1 Spatial Independence Assumptions

Thirty-three soil boring locations were sampled on 11 different properties for the BRC/TIMET data set.. The 33 soil boring locations are treated as spatially independent in this background soil study. The concentrations of each analyte at each sampling location and depth depend on the origin of the sediment and the composition of the parent material (except for anthropogenic deposition of analytes such as lead). Naturally occurring variability is associated with the deposition of sediments, and these variations may never be fully characterized and result in unexplainable data clusters. The naturally occurring variability may be impacted by sediment transport, leaching, weathering, and other geochemical processes within the alluvium; therefore,

when statistical tests are performed, it is expected that some spatial correlation may be seen, but the impact of this on the background evaluation is assumed to be negligible, and all sampling locations were therefore treated as independent in the statistical tests and calculations performed for this study.

3.1.2 Data Filtering and Combining Rules

Results from each of the two background analytical datasets were validated. Summaries of the validation of each dataset are presented in Appendix D. In order to prepare the datasets for statistical evaluation, results from each dataset were filtered so that each background soil sample had one result per analyte. The two datasets were then combined into one database. The following steps were taken to filter and combine the Environ and BRC/TIMET datasets into one.

1. Determined initial number of records in each set was determined. The BRC/TIMET dataset contained 11,268 records, and the Environ dataset contained 2,076 records.
2. All laboratory QC sample results were filtered out from both datasets.
3. All field duplicate and split sample results were filtered out from both datasets.
4. A field was added to the Environ dataset to include validation qualifiers consistent with BRC/TIMET qualifiers (only J, U, and R). Appropriate validation qualifiers were then added to the Environ dataset.
5. All rejected (R-qualified) results in both datasets were eliminated (21 individual results for the BRC/TIMET dataset and all hexavalent chromium, radium-224, radium-226, and radium-228 results in the Environ dataset).
6. The gamma spectroscopy-generated duplicate thorium-232 results (designated as Thorium-232DA) in the Environ dataset were filtered out. Results from isotopic thorium analysis were used instead.
7. Chemical names for both datasets were made exactly consistent.
8. Units for both datasets were made exactly consistent.
9. All records for the Environ dataset except for metals and radionuclides results (which originally included pesticides, herbicides, and dioxins/furans results) were filtered out.
10. For both datasets, pH results were filtered out because pH was not included in the statistical evaluations.

11. Percent moisture and cation exchange capacity results were filtered from the BRC/TIMET dataset because percent moisture and CEC were not included in the statistical evaluations.
12. The following fields were added to both datasets: Dataset (Environ or BRC/TIMET), Origin (McCullough, River, or Mixed), and Depth (0, 5, or 10).
13. Field names for both datasets were made consistent so that the datasets could be combined for statistical evaluation.
14. A final subset of fields was identified to conduct the data analysis. All other fields were eliminated. The remaining fields are listed below.

    - ID: Cross-referenced identification number for the data record in the combined dataset
    - Data Set: BRC/TIMET or ENVIRON
    - Origin: McCullough, River, or Mixed
    - Sample ID: Sample identification numbers
    - Location ID: Boring location identification numbers
    - Chemical: Standardized names consistent between datasets
    - Reported Result: Numerical concentration value and actual activity for radionuclides (or sample quantitation limit [SQL] for nondetect metals)
    - Qualifier: Standardized validation qualifiers (U, UJ, J, +, -)
    - Units: Standardized units
    - Rad Error: Two-sigma error for reporting results for radionuclides
    - PQL: Practical quantitation limit (included for comparison purposes only)
    - MDL: Method detection limit (term used by Environ; represents the SQL for BRC/TIMET data)
    - Depth: Single identifier in feet bgs (0, 5, 10)

15. Determined final number of records was determined. The BRC/TIMET dataset contained 8,091 records (representing 78 chemicals for 104 samples minus 21 individual rejected data points). The Environ database contained 608 records (representing 38 chemicals for

16 samples). Note that all results for radium 224, radium 226, radium 228, and Hexavalent chromium were rejected (101 results) and not counted in the final dataset.

16. For direct comparison of the BRC/TIMET and Environ datasets, any chemical analyzed in one study, but not the other, was not considered in the comparison.
17. For direct comparison of the McCullough Range versus River's datasets, any chemical analyzed in one area, but not the other, was not considered in the comparison.

After filtering and prior to final combination of the two datasets, a comparison table was prepared. Table 2 shows the comparison of analyte lists and detection frequencies between the two datasets for metals, anions, and radionuclides. Based on the information shown in Table 2, the observations summarized below were made.

- The BRC/TIMET dataset contains results for 43 metals and anions and 35 radionuclides, and the Environ dataset contains results for 23 metals and anions and 15 radionuclides.
- The sample size for the BRC/TIMET dataset is generally 104 results for each analyte (with a few exceptions). The sample size for the Environ dataset is generally 16 results for each analyte.
- When analyte results are available for both datasets, the detection frequencies were compared. Detection frequencies were notably different for antimony, cadmium, mercury, selenium, silver, thallium, bismuth-212, lead-210, thorium-234, and uranium-235.

Differences in detection frequencies were investigated by reviewing the analytical data to determine if apparent differences in methodology or level of quality may have produced the differences. The same laboratory performed the metals analysis for both background studies; however, a different analytical technique was used to measure the concentrations of antimony, cadmium, selenium, silver, and thallium. Inductively coupled plasma (ICP) was used to measure concentrations of these metals for the BRC/TIMET study, but ICP/mass spectroscopy (MS) was

TABLE 2
DATASET ANALYTE LIST AND DETECTION FREQUENCY

Metals and Anions	BRC/TIMET Dataset		Environ Dataset		Comments on Frequency of Detection and Analytical Differences
	Sample Size	Detection Frequency	Sample Size	Detection Frequency	
Aluminum	104	100.0%	16	100.0%	
Antimony	104	47.1%	16	0.0%	Due to difference in analytical technique; ICP versus ICP/MS
Arsenic	104	100.0%	16	100.0%	
Barium	104	100.0%	16	100.0%	
Beryllium	104	100.0%	16	100.0%	
Boron	104	32.7%	NA	NA	
Cadmium	104	0.0%	16	100.0%	Due to difference in analytical technique; ICP versus ICP/MS
Calcium	104	100.0%	NA	NA	
Chloride	104	69.2%	NA	NA	
Chromium	104	100.0%	16	100.0%	
Chromium Hexavalent	104	0.0%	NA	NA	
Cobalt	104	100.0%	16	100.0%	
Copper	104	100.0%	16	100.0%	
Fluoride	104	12.5%	NA	NA	
Iron	104	100.0%	16	100.0%	
Lead	104	100.0%	16	100.0%	
Lithium	104	100.0%	NA	NA	
Magnesium	104	100.0%	16	100.0%	
Manganese	104	100.0%	16	100.0%	
Mercury	104	74.0%	16	100.0%	Reporting limits are consistent; no comment
Molybdenum	104	100.0%	16	100.0%	
Nickel	104	100.0%	16	100.0%	
Niobium	104	0.0%	NA	NA	
Nitrate	104	86.5%	NA	NA	
Nitrite	104	4.8%	NA	NA	
Palladium	104	100.0%	NA	NA	
Phosphorus	104	100.0%	NA	NA	
Platinum	104	4.8%	NA	NA	
Potassium	104	100.0%	NA	NA	
Selenium	104	38.5%	16	75.0%	Due to difference in analytical technique; ICP versus ICP/MS
Silicon	104	100.0%	NA	NA	
Silver	104	0.0%	16	100.0%	Due to difference in analytical technique; ICP versus ICP/MS
Sodium	104	100.0%	NA	NA	
Strontium	104	100.0%	NA	NA	
Sulfate	104	77.9%	NA	NA	
Thallium	104	25.0%	16	100.0%	Due to difference in analytical technique; ICP versus ICP/MS
Thorium	NA	NA	16	100.0%	
Tin	104	99.0%	NA	NA	
Titanium	104	100.0%	16	100.0%	
Tungsten	104	0.0%	NA	NA	
Uranium	103	100.0%	NA	NA	
Vanadium	104	100.0%	16	100.0%	
Zinc	104	100.0%	16	100.0%	
Zirconium	104	100.0%	NA	NA	

TABLE 2 (Cont.)
DATASET ANALYTE
LIST AND DETECTION
FREQUENCY (cont.)

Radionuclides	BRC/TIMET Dataset		Environ Dataset		Comments on Frequency of Detection and Analytical Differences
	Sample Size	Detection Frequency	Sample Size	Detection Frequency	
Actinium-227	104	0.0%	NA	NA	
Actinium-228	104	100.0%	16	100.0%	
Bismuth-210	104	1.0%	NA	NA	
Bismuth-211	104	0.0%	NA	NA	
Bismuth 212	104	61.5%	16	25.0%	No apparent analytical difference
Bismuth-214	104	100.0%	16	100.0%	
Cobalt-57	104	0.0%	NA	NA	
Cobalt-60	104	0.0%	NA	NA	
Lead-210	104	1.0%	16	6.3%	No apparent analytical difference
Lead-211	104	0.0%	NA	NA	
Lead-212	104	100.0%	16	100.0%	
Lead-214	104	100.0%	16	100.0%	
Polonium-210	104	1.0%	NA	NA	
Polonium-212	104	61.5%	NA	NA	
Polonium-214	104	100.0%	NA	NA	
Polonium-215	104	0.0%	NA	NA	
Polonium-216	104	100.0%	NA	NA	
Polonium-218	104	92.3%	NA	NA	
Potassium-40	104	100.0%	16	100.0%	
Protactinium-234	104	0.0%	NA	NA	
Radium-223	104	0.0%	NA	NA	
Radium-224	104	100.0%	NA	NA	
Radium 226	104	92.3%	NA	NA	
Radium 228	84	81.0%	NA	NA	
Thallium-207	104	0.0%	NA	NA	
Thallium-208	104	100.0%	16	100.0%	
Thorium-227	104	0.0%	NA	NA	
Thorium-228	104	100.0%	16	100.0%	
Thorium-230	104	100.0%	16	100.0%	
Thorium-231	104	10.6%	NA	NA	
Thorium-232	104	100.0%	16	100.0%	
Thorium-234	104	61.5%	16	6.3%	No apparent analytical difference
Uranium 233/234	104	43.3%	16	100.0%	
Uranium 235	104	43.3%	16	56.3%	No apparent analytical difference
Uranium-238	104	100.0%	16	100.0%	

NA Not analyzed

used for the Environ study. This difference resulted in two apparent distinctions between the study results: (1) ICP alone is not as effective in isolating the analyte of interest and may be affected by spectral interference compared to ICP/MS, and (2) ICP alone has higher detection limits than ICP/MS. For antimony, ICP indicated detectable concentrations of antimony, whereas ICP/MS did not, even though the ICP detection limit is 10 times higher than the ICP/MS detection limit. The differences in antimony results may be due to spectral interference using ICP alone or differences in how vigorously the samples were digested (antimony has a tendency to volatilize during vigorous digestion). In the cases of cadmium, selenium, silver, and thallium, the higher detections in the Environ dataset seem to be attributable to the fact that the ICP/MS detection limit is 10 times lower (more sensitive) that that of ICP alone. In the case of mercury, no analytical differences are apparent that would account for the difference in detection frequencies.

The analytical methods and laboratory used for the radionuclides analyses were the same for both background studies. In addition, the minimum detectable concentrations (MDC) for the identified radionuclides were calculated on a sample-by-sample basis and do not account for the difference in detection frequency. No apparent analytical differences account for the difference in detection frequencies.

3.1.3 Treatment of Data Qualified as Nondetects

Treatment of censored or nondetect results for metals, anions, and other parameters generally followed EPA and Navy guidance (EPA 2000a, 2000b; Navy 1999, 2002). Treatment of radionuclide data qualified as nondetects followed DOE guidance (DOE 1997), which states that, for radionuclide activity data,

> "All of the actual values, including those that are negative, should be included in the statistical analysis. Practices such as assigning a zero, a detect limit value, or some in-between value to the below-detectable data point, or discarding those data points can severely bias the resulting parameter estimates and should be avoided."

For metals and anions, a value of one-half the reported SQL was used as a replacement value for nondetect data in the statistical calculations. Guidance documents discuss a range of replacement methods when the detection frequency is less than 85 percent; however, of the 43 metals and anions in the BRC/TIMET dataset, 28 were detected in at least 85 percent of the samples, 3 were detected in 50 to 85 percent of the samples, 7 were detected in less than 50 percent of the samples, and 5 were not detected in any sample. When detection frequencies fall below 50 percent, no replacement method works particularly well. For simplicity, the summary statistics and plots in this report were prepared using a simple substitution of one-half the SQL. This approach does not preclude use of other methods in future evaluations. The tables in Appendices E through G list the detection frequencies and descriptive summary statistics for the inorganic constituents. Specifically, Tables E-1 through E-5 in Appendix E list the detection rates and other information for the BRC/TIMET dataset, Tables F-1 through F-3 in Appendix F list this information for the Environ dataset and compare the Environ and BRC/TIMET data, and Tables G-1 through G-10 in Appendix G present the statistical summary for combined Environ and BRC/TIMET data.

For radionuclides, the actual reported activities (in picoCuries per gram [pCi/g]) were used in all calculations and plots as specified by DOE guidance (DOE 1997). The detection frequency based on data qualifiers was calculated and reported for all radionuclides in the tables of summary statistics. It is always critical to note and consider detection frequencies when assessing the data for each analyte. The tables of descriptive summary statistics in Appendices E, F and G include the minimum and maximum detected concentrations for radionuclides. When radionuclides are not detected (specifically, below the MDC), the actual measured activity (positive or negative) is reported.

3.1.4 Treatment of Field Duplicate and Split Sample Results

The heterogeneity of soils is typically sufficient so that field QC duplicate samples (co-located) are often handled as independent samples; however, split samples (taken from a single

homogenous mixture of the matrix) may be sufficiently similar so that the data should not be handled independently; therefore, the dataset used to construct the plots and summary statistics presented in this document contains data for the original samples only and not for the split samples. The BRC/TIMET dataset contained 107 samples (104 field samples and 3 split samples), so the descriptive summary statistics show a sample size of 104. The Environ dataset contained 17 samples (16 field samples and 1 split sample), so the descriptive summary statistics show a sample size of 16. The combined BRC/TIMET/Environ dataset includes a total of 120 samples.

Table E-6 in Appendix E presents relative percent differences (RPD) for the BRC/TIMET split samples. Although there are no validation rules for qualifying data based on duplicate/split sample results, RPDs between results can be used to evaluate the homogeneity of a given sample matrix. As a general rule, an RPD greater than 50 percent may indicate that the split sample is not homogeneous. Based on the RPDs presented in Table E-6, RPDs for boron, cobalt, copper, manganese, and fluoride in one or more split sample pair exceeded 50 percent. In the case of boron, the sample result was just above the reporting limit, and the split sample result was just below. For the remaining metals and anions, a review of the analytical data did not reveal any QC issues or miscalculations that would explain the differences. As such, the conclusion is that the matrix is not entirely homogenous for metals and anions. The radionuclide split sample results, with RPDs exceeding 50 percent, have one or both results at or below the MDC; therefore, the RPDs are not meaningful in determining the homogeneity of the matrix for radionuclides.

3.1.5 Identification and Treatment of Outliers

Outliers are measurements that are extremely large or small relative to the rest of the data, and therefore may not be representative of the population sampled (EPA 2000a). Outliers can be identified using formal statistical tests or by qualitative assessment methods, such as examination of graphical displays of the data. For this investigation, quintile probability plots and outlier box

plots were used to identify potential outliers for further investigation. If the potential outlier could not be confirmed to be a transcription or other verifiable error, statistical quantities were calculated with the outlier.

Two outliers were found in the dataset, which is not unusual for a set of this size (more than 8,600 records). Reporting errors were verified and then corrected in the database. One high-value outlier for uranium mass was identified when all uranium data were checked by converting the isotopic activity of uranium-238 to mass (uranium-238 constitutes more than 99 percent of the mass of naturally occurring uranium). This calculation yielded a mass of 2.4 milligrams per kilograms (mg/kg) for the outlier instead of the 7.6 mg/kg result reported by the laboratory. As a result of this calculation, the value of 7.6 mg/kg was excluded from the working dataset. A group of results for radium-228 were also rejected and excluded based on high bias.

A high-value outlier was noted for zinc (121 mg/kg). This outlier had no apparent cause or method for checking the outlier as there was for the high-value outlier for uranium. As a result, this outlier was retained.

3.1.6 Distributional Testing

The Shapiro-Wilk W test was used to test residuals from the parametric analysis of variance (ANOVA) conducted using the combined BRC/TIMET/Environ dataset. Tables G-9 and G-10 include results of the Shapiro-Wilk W test and provide a statistical comparison of metals, anions, and radionucides collected from background soil of different dept and geologic origin. A p-value less than or equal to 0.05 indicates that the null hypothesis of normality is rejected at the 95 percent confidence level.

The estimated underlying distribution of data, along with the detection frequency and sample size, was used to select the most appropriate statistical test for comparing background soil results from different depths and different origins. Parametric tests were selected when the detection frequency was 100 percent and when the Shapiro-Wilk W test indicated that the residuals

followed a normal distribution. Nonparametric tests were selected when censored (nondetected) measurements were present in one or more groups and for cases where when the Shapiro-Wilk W test indicated that the residuals did not follow a normal distribution.

The estimated distribution, detection frequency, and samples size will also be used to select the most appropriate statistical test for future Site-to-background concentration comparisons needed to meet various project-specific objectives.

3.2 STATISTICAL PLOTS

Statistical plots are used in exploratory data analysis to summarize particular characteristics or identify relationships within the data, evaluate goodness-of-fit to normal or other distributions, identify anomalous data points or outliers, and provide a general data overview. A number of different graphical presentations of the data were used in this background study, including frequency distribution, box-and-whisker, and individual value (location) plots. The preliminary data evaluation included both qualitative (graphical) and graphical and quantitative assessment methods. The BRC/TIMET data was summarized overall and by depth interval, and data was plotted for the various groupings. The BRC/TIMET data was compared to the Environ background data (Environ 2003) using the distribution, box-and-whisker, and individual value plots. In addition, the comparability of data collected from soils in the northern McCullough Range and River Mountains was evaluated. The following sections discuss the graphical analysis of the analytical data. Appendices F and G provide the statistical plots.

3.2.1 Distribution Plots

Frequency histograms, quantile probability plots, and box plots (see Section 3.2.2 were prepared for individual chemicals and data groupings (for example, discrete depth intervals and soil origins) to provide a qualitative summary of the data and to complement goodness-of-fit tests used to evaluate the underlying distribution of the data. Quantile probability plots are also useful for visually identifying outliers and for evaluating the potential presence of multiple populations

in the dataset. Multiple populations are typically identified by inflection points or by discrete clusters of measurements on the probability plots.

Normal probability plots are graphs of measurements, ordered from lowest to highest and plotted against a standard normal distribution function. The vertical axis is scaled in units of concentration (or activity in the case of radionuclides), and the horizontal axis is scaled in units of the normal distribution function (normal quantile). Data that are normally distributed will fall along the diagonal line in the plots of concentration versus the expected normal quantile,

Normal probability plots were created for each analyte and are grouped by dataset in the appendices identified below.

- BRC/TIMET dataset for all samples
  - Figure F-1, Appendix F
  - Figure G-1, Appendix G for BRC/TIMET analytes not included in Environ data
- Environ dataset for all samples (see Figure F-1 in Appendix F)
- Combined BRC/TIMET and Environ dataset
  - Figures G-1 and G-2, Appendix G, for all samples
  - Figures G-3 and G-4, Appendix G, by depth interval
  - Figures G-5 and G-6, Appendix G, by origin

This section discusses the probability plots for the BRC/TIMET data. Probability plots for the Environ dataset, the combined BRC/TIMET and Environ dataset, and data evaluated by origin and by depth are discussed in Section 3.4.

Normal probability plots were used to identify anomalous data points (outliers) and data clusters in the BRC/TIMET dataset. All anomalous data points and clusters were investigated further. Outliers identified from the probability plots are discussed in Section 3.1.5 and included (1) one datum for uranium that was excluded as an analytical error, (2)a group of results for radium-228 that were qualified as rejected and excluded based on high bias, and (3) one high value for zinc that was not excluded from the dataset.

Several data clusters are apparent on the probability plots for the combined data, indicating the potential for more than one population. For example, the probability plots for barium (see Figure F-1 in Appendix F) show a cluster of high values that correspond to samples from location BRC-BKG-12. The samples from location BRC-BKG-12 were reanalyzed for barium, but this approach confirmed the veracity of the original analysis, and inter-element correlations (see Section 3.4.5) did not provide further data insights. In addition, the plots for calcium (see Figure G-1 in Appendix G) show five high-value data points that do not correspond to any one sampling location, and the plots for lead (see Figure F-1 in Appendix F) include some higher concentrations in surface soil that are likely related to anthropogenic background concentrations. The plots also show a few high-value measurements for manganese (see Figure F-1), molybdenum (see Figure F-1), nickel (see Figure F-1), silicon (see Figure G-1), and strontium (see Figure G-1).

None of the five anions (chloride, fluoride, nitrate, nitrite, and sulfate) were detected in all samples, and only nitrate had a detection rate greater than 85 percent. As a result of the presence of a large proportion of nondetect values for anions, the probability plots (see Figure G-1) generally show two populations -- one of all nondetects and the other of all detected concentrations. The detected concentrations appear to constitute a single population for each anion.

Activities of all radionuclides (both measured and back-quantitated) were also plotted for all the BRC/TIMET data (see Figures F-2 and Figure G-2). The probability plots show a range of activities and generally suggest one population for each species. Unlike for some of the metals (such as lead), there does not appear to be anthropogenic enrichment of radionuclides in surface soils.; however, the study does not analyze for fission products (such as cesium or plutonium isotopes) that are typically referred to as “anthropogenic radionuclides.” Analysis for fission products was not done because they do not generally occur naturally and are not site-related chemicals (NAS 1971).

3.2.2 Box-and-Whisker Plots

Box-and-whisker plots provide a method for side-by-side comparison of data groupings or datasets. The box-and-whisker plots generated for this evaluation are outlier box-plots. Outlier box -plots display the full range of data as well as key summary statistics, such as the median, 25th and 75th percentiles (quartiles), and minimum and maximum values. A box-and-whisker plot consists of a box (rectangle) with lines. The length of the box is the interquartile range (IQR); therefore, the box represents the middle 50 percent of the data. The top and bottom of the box are the 25th and 75th percentiles of the distribution. The width of the box is arbitrary. The horizontal line across the middle of the box depicts the median value (the 50th percentile). The upper or lower whisker extends to the highest or lowest data value within the upper or lower) limit. Outliers are operationally defined as measurements that exceed the 75th or 25 percentile by 1.5 times the IQR.

Various data groups were examined using outlier box- plots. In Figures F-1 and F-2 in Appendix F, box-and-whisker plots for the BRC/TIMET data are presented alongside the plots for the Environ data. For each chemical and data set, box- plots of the data for individual depth intervals are provided along with probability and individual value plots for the combined depths.. Appendix G provides plots of the combined BRC/TIMET and Environ data (see Figures G-1 and G-2) and plots of the combined BRC/TIMET and Environ data by depth (see Figures G-3 and G-4) and geologic origin (see Figures G-5 and G-6).

The plots in Appendices F and G summarize data for more than 8,000 records. The plots are presented to (1) provide a comprehensive overview of the BRC/TIMET and Environ background soil datasets, (2) compare the BRC/TIMET background dataset to the Environ background dataset, and (3) compare the data for the combined BRC/TIMET and Environ dataset by depth and geologic origin.

3.3 DESCRIPTIVE SUMMARY STATISTICS

Descriptive summary statistics for metals, anions, and radionuclides were calculated for the BRC/TIMET dataset (see Appendix E), the Environ dataset (see Appendix F), and the combined BRC/TIMET and Environ dataset (see Appendix G). Descriptive summary statistics for each dataset were also prepared for each depth interval separately (indicated as 0, 5, and 10 feet bgs intervals for simplicity) and for the subsurface depths combined (data for 5 and 10 feet bgs intervals, if applicable). Statistical calculations were prepared using Neptune's "Guided Interactive Statistical Decision Tool" (GISdT) website for statistical analysis (Neptune 2006).

The descriptive summary statistics calculated for each analyte include the sample size and detection frequency; and for both censored and detected data, the minimum and maximum concentrations, the median, the mean, and the 25^{th} and 75^{th} percentiles (quantiles).

Table 2 summarizes the dataset analyte list and detection frequencies for the BRC/TIMET and the Environ background sample datasets. The following sections discuss the descriptive summary statistics for metals and anions, radionuclides, and other parameters.

3.3.1 Metals and Anions

Cadmium, hexavalent chromium, niobium, silver, and tungsten were not detected in any BRC/TIMET background soil sample. Antimony was not detected in any Environ background soil sample. Antimony, platinum, selenium, and thallium were detected in fewer than 50 percent of the BRC/TIMET samples. Mercury was detected in 74 percent of the BRC/TIMET samples and in all of the Environ samples and the other metals were detected in more than 85 percent of the samples. The comment column in Table 2 includes an explanation where analyte detection frequencies varied significantly between the BRC/TIMET and Environ results. Detection rates for anions in the BRC/TIMET samples ranged from 4.8 percent for nitrite to 86.5 percent for nitrate, with fluoride (12.5 percent), chloride (69.2 percent), and sulfate (77.9 percent) all having detection rates less than 85 percent.

3.3.2 Radionuclides

Activities for 35 radionuclides are reported for the BRC/TIMET dataset, including 22 from direct analysis and 13 that were back-quantitated from longer-lived members of the decay chain, assuming secular equilibrium. The back-quantitated results are designated by an "X" suffix in Table E-6 and more specifically described below. Activities for 15 radionuclides are reported for the Environ dataset. The same descriptive summary statistics for metals and anions are reported for radionuclides with one main difference -- for radionuclides, the actual reported activity is used for all statistical calculations and tests (no substitutions were made for results qualified as nondetections).

Radionuclides results may define a normal distribution around the value defined as calibrated background at the laboratory, even if the results are qualified as nondetect. This situation occurs because of the random nature of counting statistics and the decay processes. Although an MDC is reported by the laboratory and some results are qualified as nondetect, the actual results (including zero and negative results) are used in all statistical calculations. The data are reported as activity (not mass) in units of pCi/g, where a pCi is equal to 10^{-12} Curies and a Curie is defined as 3.7E10 disintegrations per second, the approximate specific activity of one gram of radium in equilibrium with its disintegration products.

Results for some radionuclides, especially the short-lived species, were back-quantitated from parents in the decay chain, assuming secular equilibrium. Secular equilibrium is radioactive equilibrium that occurs in a closed system when the half-life of the daughter is much less than that of the parent. Figures 2 through 4 show the three major decay chains for uranium-238, uranium-235, and thorium-232.

Radionuclides qualified as nondetect in all BRC/TIMET sample include cobalt-57, cobalt-60, protactinium-234, and thorium-227, along with all the species back-quantitated from these isotopes.

3.3.3 Other Parameters

Supporting parameters analyzed as part of the BRC/TIMET background study included soil texture (particle size analysis), conductivity, CEC, TOC, pH, and percent moisture. As is typical for desert soils, the pH values were slightly alkaline, ranging from about 8.0 to 9.3. Soil texture was dominated by sand and gravel size fractions as expected based on the USDA soil survey (USDA 1985). These soil data are summarized in Table C-4 in Appendix C. These parameters were not analyzed during the Environ study.

3.4 STATISTICAL TESTS AND COMPARISONS

The statistical methods described in EPA (2000a and 2000b) and Navy (1999 and 2002) guidance assume that the data were collected using random sampling and, that measurements are independent. The actual sampling locations for the BRC/TIMET study were selected randomly from accessible upgradient areas. Three borings were installed at each location, with the main selection factor being accessibility rather than judgment of the areas or bias in sample selection. Samples were systematically collected from discrete depth intervals of 0 to 0.5, 4 to 6, and 9 to 11 feet bgs from each boring. A few exceptions to these depths occurred were based on auger refusal during boring or sample retrieval success.

The main statistical problem was determining if the data form more than one population based on statistical comparisons of data from different settings, including (1) Environ and BRC/TIMET sampling locations; (2) sampling depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs); and (3) soils derived from source materials in the northern McCullough Range and River Mountains. To answer these questions, the following groups of data were compared using statistical tests and statistical plots (see Section 3.2):

- BRC/TIMET and Environ dataset

- Combined BRC/TIMET/Environ dataset among depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs)

- Data for soils derived from the River Mountains and the McCullough Range

Results are discussed below.

3.4.1 Statistical Hypothesis Testing

Statistical hypotheses are framed in terms of a null hypothesis (H_o) and an alternative hypothesis (H_A). For this study, the null hypothesis (H_o) was that the datasets were derived from the same population; therefore, rejection of the null hypothesis means acceptance of the alternative hypothesis (H_A), that the populations are different.

In setting up the hypotheses for testing, the tolerable limits on decision errors are specified on the basis of the consequences of making decision errors. There is always uncertainty when dealing with a sample from a population, so these limits can never be zero. Decision errors in statistical hypothesis testing may be described as Type I or Type II errors. In a Type I (false positive) error, the null hypothesis is rejected when in fact it is true. In a Type II (false negative) error, the null hypothesis is accepted when in fact it is false. To set these probability limits on decision errors, alpha (α, the level of significance) and beta (β, complement to the power) are defined below.

- $1-\alpha$ is the confidence level, whereas α is the significance level. So, at 95 percent confidence, α is set at 0.05.

- $1-\beta$ is the power of the test, whereas β is the complement to the power. So, at 80 percent power, β is set at 0.2.

Methods used to evaluate and compare the data groups for this investigation are summarized below.

Dataset	Distribution Plots	Box-and-Whisker Plots	Individual Value Plots	ANOVA plus Tukey HSD, or Kruskal-Wallis plus Behrens-Fisher
BRC/TIMET	X	X	X	
Environ	X	X	X	
Combined BRC/TIMET and Environ	X	X	X	
Combined BRC/TIMET and Environ – Depth Comparison	X	X	X	X
Combined BRC/TIMET and Environ – Geologic Origin Comparison	X	X	X	X

Note: HSD = Honest Significant Difference

Additional details and discussions of these lists may be found in standard statistical texts (Gilbert 1987, Zar 1998) and in EPA DOA guidance (EPA 2000a, 2006a)

Comparison of concentrations/activities among different depths and geologic origins was conducted for all chemicals in the combined BRC/TIMET and Environ dataset. The R statistical package was used to perform parametric and non-parametric ANOVA modeling and the corresponding post-hoc multiple comparison tests. Neptune conducted the analysis and provided the results to BRC/TIMET for further assessment.

The assessment of differences in concentrations and activities begins with examination of the descriptive summary statistics (see Tables G-1 through G-8 in Appendix G) and exploratory data analysis (see Figures G-3 and G-4) to facilitate interpretation of test results. Tables G-2 through G-4 present the descriptive summary statistics for comparison of data among depths. Figures G-3 and G-4 include the plots comparing data among depths. Tables G-6 through G-8 present descriptive summary statistics for comparison of data among geologic origins. Figures G-5 and G-6 include the plots comparing data among geologic origins. The exploratory data analysis plots contain distributional plots, box-and-whisker plots, and individual result plots for each chemical.

For comparison of data from each depth or geology origin, both the parametric ANOVA and the non-parametric Kruskal-Wallace test were used. ANOVA assesses differences in mean concentrations among groups, and the Kruskal-Wallace model looks for differences in the sum of the ranks among groups. Nondetect results were replaced with half the detection limit (the MDL was used for detection status) in the ANOVA model, and Gehan ranking was used to accommodate nondetects in the Kruskal-Wallace model. Activities are reported as actual values; therefore, there is no meaningful detection status for radionuclides.

Multiple comparison tests were performed for both the ANOVA and the Kruskal-Wallace models. For the ANOVA model, a Tukey Honestly Significant Difference (HSD) test was used for all pair-wise comparisons for the post –hoc multiple comparisons. For the Kruskal-Wallace model, a Behrens-Fisher multiple comparison test was used. The ANOVA model requires that the residuals be normally distributed. The Shapiro-Wilk W test was used to assess the normality of the residuals from the ANOVA model (see Tables G-9 and G-10). If Shapiro-Wilk W test results indicate that the normality assumption is reasonable (for example, a p-value > 0.05), then the ANOVA and Tukey HSD tests provide a reasonable assessment of differences among concentrations and activities; however, if the Shapiro-Wilk W test results indicate that the normality assumption may be unreasonable (for example, a p-value ≤ 0.05), then the Kruskal-Wallace and Behrens-Fisher results probably provide a better assessment of differences among concentrations and activities. Additionally, the nonparametric Kruskal-Wallace and Behrens-Fisher tests were selected when censored data were present in one or more groups. The shaded cells in Tables G-9 and G-10 indicate the results selected for test interpretation. When a minimum of four detected measurements was not applicable, statistical testing was not conducted.

One caveat about the Behrens-Fisher multiple comparison tests is the existence of some sensitivity to relative sample sizes. When there is a large discrepancy between the sample sizes among groups (that is, strongly unbalanced data), the power of the test is low. In these cases, the Kruskal-Wallace test may indicate a difference in concentration or activity, but the Behrens-

Fisher test may find no significant difference in any of the pair-wise comparisons. When there is a large discrepancy between sample sizes among groups, examination of graphical displays of the data are useful for interpreting test results declared significant by the Kruskal-Wallace test.

3.4.2 Comparison of BRC/TIMET and Environ Data

The BRC/TIMET and Environ datasets were evaluated to determine if they could be combined into one dataset for future consideration. Frequency histograms, normal probability plots, outlier box-plots, and individual value plots were used in quantitative or semi-quantitative comparison of the BRC/TIMET and Environ data (see Figures F-1 and F-2 in Appendix F). Besides the exceptions discussed below, much of the Environ data fall within the range of the BRC/TIMET data.

Differences were observed between the two data sets. Arsenic generally had higher concentrations in the BRC/TIMET samples than the Environ samples. Barium generally had higher concentrations in the Environ samples than the BRC/TIMET samples except for the sample from BRC/TIMET location BRC-BKG-12. Copper, magnesium, titanium, and vanadium generally had higher concentrations in BRC/TIMET samples from many locations.

Other differences between the BRC/TIMET and Environ datasets are summarized below.

- The BRC/TIMET dataset is considerably larger (n = 104) than the Environ dataset (n = 16).
- Environ did not analyze samples for anions, calcium, lithium, potassium, sodium, strontium, and others.
- The reporting limits differed between the two studies for some analytes (such as antimony, hexavalent chromium, and silver).
- The level of data validation between the two studies was inconsistent.
- The Environ dataset included invalidated data for radium-224, radium-226, and radium-228.

- Different analytical methods were used in the two studies.
- Sampling intervals differed. For example, the Environ sampling intervals were 0 to 1 and 3 to 4 feet bgs, and the BRC/TIMET sampling intervals were 0 to 0.5, 4 to 6, and 9 to 11 feet bgs.

Overall, the samples for the BRC/TIMET study appear to have captured a fair range of natural variability and heterogeneity and typically show a wider range of concentrations and activities than samples from the Environ study. Because the BRC/TIMET data span a broader geographic area and include 104 samples (compared to 16 samples for the Environ study), this outcome is not unexpected. The results of this analysis indicate that the BRC/TIMET and Environ datasets are generally comparable and can be combined for further statistical evaluation and comparison.

3.4.3 Comparison of BRC/TIMET/Environ Data by Depth Interval

As discussed in the Workplan (see Appendix A), soil samples were collected from three depth intervals for the BRC/TIMET background soil study: 0 to 0.5, 4 to 6, and 9 to 11 feet bgs. For the Environ study conducted for the City of Henderson, soil samples were collected from eight borings from 0 to 1 and 3 to 4 feet bgs.

Data for samples from each depth interval were compared using the statistical tests discussed in Section 3.4.1. Multiple population tests were selected and used to compare data among surface, middle, and deep soil samples. Table G-9 in Appendix G summarizes the results. Results that are statistically significant at the 0.05 significance level are shaded in the table. Frequency histograms, normal probability plots, outlier box-plots, and individual value plots presented in Figures G-3 and G-4 compare the data by depth interval and offer a visual qualitative or semi-quantitative assessment of differences for each analyte among the data groups. Statistical tests provide a quantitative analysis to determine if the differences are statistically significant at a specified level (for example, 0.05).

Table 3 summarizes the statistical comparison results for metals, anions, and radionuclides among the depths intervals for the BRC/TIMET/Environ background samples. The conclusions and recommendations for the dataset and the data subset use presented in Table 3 are based on further review and comparison of analyte plots and summary statistics, analytical methods, mineralogical considerations, and chemical characteristics (such as mobility).

Table 3

Summary of Statistical Comparison of Metals, Anions, and Radionuclides Among Depth Intervals for BRC/TIMET and Environ Background Soil Samples

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Metals (mg/kg)			
Aluminum	0>10	Differences attributed to naturally occurring sample variability	Combine data from all depths
Antimony	0>5	Differences attributed to analytical variability; all results near or below reporting limit	Combine data from all depths
Arsenic	None	No significant difference among depths	Combine data from all depths
Barium	None	No significant difference among depths	Combine data from all depths
Beryllium	None	No significant difference among depths	Combine data from all depths
Boron	None	No significant difference among depths	Combine data from all depths
Cadmium	None	No significant difference among depths	Combine data from all depths
Calcium	0<10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface (0 foot), and combined subsurface (5 and 10 feet bgs)
Chromium	0>5, 0>10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface (0 foot), and combined subsurface (5 and 10 feet bgs)

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Cobalt	None	No significant difference among depths	Combine data from all depths
Copper	None	No significant difference among depths	Combine data from all depths
Iron	0>5, 0>10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface (0 foot), and combined subsurface (5 and 10 feet bgs)
Lead	0>5, 0>10, 5>10	Differences among surface (0 feet), mid-depth (5 feet bgs), and deep (10 feet bgs) concentrations due to anthropogenic sources	Surface, 5-foot-bgs subsurface, and 10-foot-bgs subsurface
Lithium	5<10	Differences attributed to naturally occurring sample variability	Combine data from all depths
Magnesium	0>5, 5<10	Differences attributed to naturally occurring sample variability	Combine data from all depths
Manganese	0>5, 0>10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Mercury	0>5, 0>10	Differences attributed to sample and analytical variability; many results below reporting limit	Combine data from all depths
Molybdenum	None	No significant difference among depths	Combine data from all depths
Nickel	0>5	Differences attributed to naturally occurring sample variability	Combine data from all depths
Palladium	0<5, 0<10, 5<10	Differences attributed to naturally occurring sample variability	Combine data from all depths
Phosphorus	None	No significant difference among depths	Combine data from all depths
Platinum	NA	Insufficient number of detected concentrations	Combine data from all depths
Potassium	0>5, 0>10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface, and combined subsurface (5 and 10 feet bgs)

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Selenium	0>10	Differences attributed to analytical variability; all results near or below reporting limit	Combine data from all depths
Silicon	None	No significant difference among depths	Combine data from all depths
Silver	None	No significant difference among depths	Combine data from all depths
Sodium	0<5, 0<10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Strontium	0<5, 0<10, 5<10	Differences attributed to naturally occurring sample variability	Combine data from all depths
Thallium	None	No significant difference among depths	Combine data from all depths
Tin	0>5, 0>10	Differences attributed to analytical variability; all results near or below reporting limit	Combine data from all depths
Titanium	None	No significant difference among depths	Combine data from all depths
Uranium	0<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near-surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Vanadium	None	No significant difference among depths	Combine data from all depths
Zinc	0>5, 0>10	Differences between surface (0 foot) and combined subsurface (5 and 10 feet bgs) concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Zirconium	None	No significant difference among depths	Combine data from all depths
Anions (mg/kg)			
Chloride	0<5, 0<10	Differences between surface and combined subsurface concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Fluoride	None	Insufficient number of detected concentrations	Surface, and combined subsurface (5 and 10 feet bgs)

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Nitrate	0<5, 0<10	Differences between surface and combined subsurface concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Nitrite	None	Insufficient number of detected concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Sulfate	0<5, 0<10	Differences between surface and combined subsurface concentrations	Surface, and combined subsurface (5 and 10 feet bgs)
Radionuclides (pCi/g)			
Actinium-227	None	No significant difference among depths	Combine data from all depths
Actinium-228	None	No significant difference among depths	Combine data from all depths
Bismuth-210	0>5, 5<10	Insufficient number of detected activities	Combine data from all depths
Bismuth-211	None	No significant difference among depths	Combine data from all depths
Bismuth-212	0<10	No differences among depths	Combine data from all depths
Bismuth-214	None	No significant difference among depths	Combine data from all depths
Cobalt-57	0>5, 5<10	Insufficient number of detected activities	Combine data from all depths
Cobalt-60	0<10	Insufficient number of detected activities	Combine data from all depths
Lead-210	0>5	Insufficient number of detected activities	Combine data from all depths
Lead-211	None	No significant difference among depths	Combine data from all depths
Lead-212	None	No significant difference among depths	Combine data from all depths
Lead-214	0<10, 5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Polonium-210	0>5, 5<10	Insufficient number of detected activities	Combine data from all depths
Polonium-212	None	No significant difference among depths	Combine data from all depths
Polonium-214	0<10	No differences among depths	Combine data from all depths
Polonium-215	None	No significant difference among depths	Combine data from all depths

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Polonium-216	None	No significant difference among depths	Combine data from all depths
Polonium-218	0<10, 5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Potassium-40	None	No significant difference among depths	Combine data from all depths
Protactinium-234	None	No significant difference among depths	Combine data from all depths
Radium-223	None	No significant difference among depths	Combine data from all depths
Radium-224	None	No significant difference among depths	Combine data from all depths
Radium-226	0<10, 5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Radium-228	None	No significant difference among depths	Combine data from all depths
Thallium-207	None	No significant difference among depths	Combine data from all depths
Thallium-208	None	No significant difference among depths	Combine data from all depths
Thorium-227	None	No significant difference among depths	Combine data from all depths
Thorium-228	0>10	No differences among depths	Combine data from all depths
Thorium-230	0<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Thorium-231	None	No significant difference among depths	Combine data from all depths
Thorium-232	None	No significant difference among depths	Combine data from all depths
Thorium-234	None	No significant difference among depths	Combine data from all depths
Uranium-233/234	5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Uranium-235	0>5, 0<10, 5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)
Uranium-238	0<5, 0<10, 5<10	Differences between combined surface and mid-depth (0 and 5 feet bgs), and 10-foot-bgs samples	Combined near surface (0 and 5 feet bgs), subsurface (10 feet bgs)

Notes:
bgs Below ground surface
mg/kg Milligram per kilogram
pCI/g PicoCurie per gram

Metals and Anions

Results of statistical tests comparing the BRC/TIMET metals data grouped by depth indicate that there are no significant differences for 15 of the 35 metals evaluated. Results for all comparisons by depths are summarized in Table 3. The conclusions and recommendations for data sets use are presented in Table 3 are based on a review of results from the statistical analysis as wells as other considerations. The results suggest that data from all depths can be combined for future statistical evaluation of 26 metals. Segregation of lead data by sample depth should be considered for future statistical evaluations. Concentrations of lead were higher at the surface and declined with depth, consistent with likely anthropogenic sources of lead. Metals such as lead that have a high "anthropogenic remobilization factor" (Salomons and Forstner 1984) show slightly elevated concentrations in surface soil compared to subsurface soil. This difference likely results from anthropogenic background, which differs from natural background, but is not site-related contamination. The concentrations of chromium, iron, manganese, potassium, and zinc are higher in surface soils than subsurface soils. Concentrations of calcium and sodium are lower in surface soils than subsurface soils. Segregation of data into surface (0 feet bgs) and combined subsurface (5 and 10 feet bgs) datasets should be considered for future use. Uranium concentrations were lower in surface and mid-depth soils (0 and 5 feet bgs) than in the 10-foot-bgs soils. Segregation of uranium data into surface and mid-depth (0 and 5 feet bgs) and 10-foot-bgs datasets should be considered for future statistical evaluation.

For anions with detection rates greater than 50 percent (chloride, nitrate, and sulfate), the comparisons show statistically significant differences between the surface and each subsurface interval but not between the two subsurface intervals. These results suggest that the two subsurface intervals can be combined and treated as a single population for future comparisons of site and background data but that surface soil data may be better treated as a separate group.

Radionuclides

Results of statistical tests comparing radionuclide activities among different sampling depths are presented in Table G-9 and summarized in Table 3. Results of statistical tests comparing data for BRC/TIMET radionuclides grouped by depths indicate that there are no significant differences for 20 of the 35 radionuclides evaluated. Two radionuclides; uranium-235 and uranium-238, showed significant differences among all depths, with the highest activities at 10 feet bgs.

Significant differences for uranium-238 and daughter product activities were found between 0 and 10, and 5 and 10 feet bgs. These results suggest that the data for uranium-238 and its daughter products can be pooled and treated as a single data set for the 0- and 5-foot-bgs depths, even though there are some statistical differences. The differences between the near-surface (0 and 5 feet bgs) and 10-foot-bgs soils should be considered when using uranium-235 and uranium-238 decay chain background data for future site comparisons.

For the remaining radionuclides, based on professional judgment, the differences are not significant enough to warrant the creation of separate datasets.

3.4.4 Comparison of McCullough Range and River Mountain Data for BRC/TIMET/Environ Dataset

The comparison of background data for the McCullough Range and the River Mountains included an evaluation of the soil types and geology of the two ranges and sample results from the BRC/TIMET and Environ background sampling locations. Several different soil types are mapped across the area as described in Section 1.3 of the Workplan (see Appendix A). The soil types observed downgradient from the McCullough Range and River Mountains are similar, which is expected because the geologic map indicates that similarly mapped rock units comprise the northern McCullough Range and River Mountains (see Figure 1). Because the main factors of soil formation (parent material, climate, topography, biota, and time) are the same for alluvial fans derived from both ranges, the concentrations of metals and the activities of radionuclides

should be comparable (Birkeland 1984). The comparability of anions was not evaluated because the Environ study did not include analyses for anions.

The combined BRC/TIMET/Environ data set was evaluated using frequency histograms, normal probability plots, outlier box-plots, and individual value plots to qualitatively or semi-quantitatively assess the comparability of metals and radionuclides data for areas downgradient of the McCullough Range and River Mountains (see Figures G-5 and G-6). Data for samples from each geologic origin were compared using the statistical tests discussed in Section 3.4.1. Multiple population tests were selected and used to compare data among the McCullough Range, River Mountain, and mixed soil samples (see Table G-10). Results that are statistically significant at a p-level of 0.05 are shaded in Table G-10.

BRC/TIMET sampling locations on properties BRC-BKG-1 through BRC-BKG-9 and BRC-BKG-11, and Environ sampling locations BG-01 through BG-03 are downgradient of the McCullough Range. The BRC/TIMET sampling location on property BRC-BKG-12 and Environ sampling location BG-04 are located in an alluvial fan area downgradient from both the McCullough Range and River Mountains. Environ sampling locations BG-05, BG-06, BG-07, and BG-08 are located downgradient from the River Mountains.

In summary, 33 locations were sampled on alluvial fan materials downgradient of the McCullough Range; 4 soil boring locations were sampled on combined alluvial fan materials from both the McCullough Range and River Mountains; and 4 locations were sampled on alluvial fan materials downgradient of the River Mountains.

Table 4 summarizes the statistical comparisons results for metals and radionuclides among geologic origins for the BRC/TIMET/Environ background samples. The table lists the analytes and summarizes statistical differences among geologic origins, if present. The conclusions and recommendations for dataset and data subset use in Table 4 are based on further review and

comparison of analyte plots and summary statistics, analytical methods, mineralogical considerations, and chemical characteristics (such as mobility).

In general, the box-and-whisker plots show that the heterogeneity of samples collected from the 31 locations downgradient from the northern McCullough Range encompasses the range of concentrations or activities detected at the four sampling locations on the mixed alluvial fan and the four sampling locations downgradient from the River Mountains.

Table 4

Summary of Statistical Comparison of Metals and Radionuclides Among Geologic Origins in BRC/TIMET/Environ Background Soil Samples

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Metals and Anions (mg/kg)			
Aluminum	Mc>Mx, Mx<R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Antimony	None	No significant difference among soil types	Combine data from all origins
Arsenic	Mc>R, Mx>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Barium	Mc<R, Mc<Mx	Differences are unexplained	Mc, combined Mx and R
Beryllium	Mc>R, Mx>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Boron	None	Insufficient number of detected concentrations	Combine data from Mc and Mx
Cadmium	None	No significant difference among soil types	Combine data from all origins
Calcium	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine Mc and Mx
Chromium	None	No significant difference among soil types	Combine data from all origins
Cobalt	Mc>R, Mx>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Copper	Mc>R, Mx>R	Differences between combined Mc and Mx and R samples	Combined Mc and Mx, R

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Iron	Mc>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Lead	Mc<R, Mc<Mx	Data range for Mc generally includes data range for Mx and R; R data set does not include deep (10-foot-bgs) samples[1]	Combine data from all origins
Lithium	None	No significant difference among soil types	Combine data from Mc and Mx
Magnesium	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Manganese	None	No significant difference among soil types	Combine data from all origins
Mercury	Mc<R, Mx<R	Data range for Mc generally includes data range for Mx and R; many results below reporting limit[1]	Combine data from all origins
Molybdenum	Mc>R, Mx>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Nickel	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R	Combine data from all origins
Palladium	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Phosphorus	Mc>Mx	Mc and Mx differ	Mc, Mx
Platinum	NA	Insufficient number of detected concentrations	Combine data from all origins
Potassium	None	No significant difference among soil types	Combine data from all origins
Selenium	None	No significant difference among soil types	Combine data from all origins
Silicon	None	No significant difference among soil types	Combine data from all origins
Silver	None	No significant difference among soil types	Combine data from all origins
Sodium	None	No significant difference among soil types	Combine data from all origins
Strontium	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Thallium	Mx>R	Differences due to different detection limits from different analytical methods	Combine data from all origins
Tin	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Titanium	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Uranium	Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Vanadium	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Zinc	Mc>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Zirconium	Mc>Mx	Mc and Mx may differ	Mc, Mx
Radionuclides (pCi/g)			
Actinium-227	None	No significant difference among soil types	Combine data from all origins
Actinium-228	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Bismuth-210	None	No significant difference among soil types	Combine data from all origins
Bismuth-211	None	No significant difference among soil types	Combine data from all origins
Bismuth-212	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R; many results below reporting limit[1]	Combine data from all origins
Bismuth-214	None	No significant difference among soil types	Combine data from all origins
Cobalt-57	None	No significant difference among soil types	Combine data from all origins
Cobalt-60	None	No significant difference among soil types	Combine data from all origins
Lead-210	Mc<R, Mx<R	Insufficient detected data to allow comparison	Combine data from all origins
Lead-211	None	No significant difference among soil types	Combine data from all origins
Lead-212	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Lead-214	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Polonium-210	None	No significant difference among soil types	Combine data from all origins
Polonium-212	None	No significant difference among soil types	Combine data from all origins

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Polonium-214	Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Polonium-215	None	No significant difference among soil types	Combine data from all origins
Polonium-216	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Polonium-218	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Potassium-40	Mc<R, Mc<Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Protactinium-234	None	No significant difference among soil types	Combine data from all origins
Radium-223	None	No significant difference among soil types	Combine data from all origins
Radium-224	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Radium-226	Mc>Mx	Data range for Mc generally includes data range for Mx[1]	Combine data from Mc and Mx
Radium-228	Mc<Mx	Insufficient number of valid results for Mx and R	Combine data from all origins
Thallium-207	None	No significant difference among soil types	Combine data from all origins
Thallium-208	Mc>R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Thorium-227	None	No significant difference among soil types [1]	Combine data from all origins
Thorium-228	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Thorium-230	Mc>Mx, Mx<R	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Thorium-231	None	No significant difference among soil types	Combine data from all origins
Thorium-232	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R[1]	Combine data from all origins
Thorium-234	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R; many results below reporting limit[1]	Combine data from all origins
Uranium-233/234	None	No significant difference among soil types	Combine data from all origins

Analyte	Statistical Differences Among Depths	Conclusions	Recommended Data Set Use
Uranium-235	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R; many results below reporting limit; R data set does not include any deep (10-foot-bgs) samples[1]	Combine data from all origins
Uranium-238	Mc>R, Mc>Mx	Data range for Mc generally includes data range for Mx and R; R data set does not include any deep (10^1-foot-bgs) samples[1]	Combine data from all origins

Notes:

Mc = McCullough Range sample
Mx = Mixed McCullough Range and River Mountain sample
NA = Insufficient number of detected measurements to conduct tests
R = River Range sample
1 No known anthropogenic geological or geo-chemical differences to support the creation of more than one dataset.

Several exceptions to this generalization were noted. Barium concentrations appeared significantly greater in samples from BRC/TIMET location BRC-BKG-12a, b, and c (on material derived from both the River Mountains and the McCullough Range) and in samples from the Environ locations BG-05 through BG-08 (sampled fan materials derived from the River Range) than for samples collected from the other 31 locations. Data for other alkaline and alkaline-earth metals (calcium, lithium, potassium, sodium, and strontium) were evaluated for similar differences, but none were apparent. Concentrations of copper appeared to be generally but not consistently lower in the River Range than the McCullough Range and mixed soils samples. Concentrations of phosphorus and zirconium, which were not analyzed in the River Range samples (Environ), are generally but not consistently lower in the mixed soils than the McCullough Range soils samples. These differences should be considered when using these data for future comparisons.

Statistical differences shown by the multiple population tests for other metals and radionuclides were evaluated, but the results, were confounded by the disparity in sample size among origins as well as the high frequency of measurements at or near the reporting limit. The data range for the McCullough Range soil samples in these cases generally includes the data range for the River Mountains and the mixed soil samples. These results suggest that data from all origins can be treated as a single population for future comparisons of site to background data.

In summary, with the few exceptions described above, the concentrations of metals and activities of radionuclides in samples from the McCullough Range, the River Mountains, and mixed soils are comparable.

3.4.5 Inter-Element Correlations for BRC/TIMET Data

In addition to statistical tests and plots comparing data for soil samples from different depths, locations, and studies, the data were evaluated with respect to inter-element correlations. Correlations or “measures of association” are of interest because they offer another line of

evidence to distinguish background and non-background data (Navy 2002) or multiple populations of data.

Scatter plots with regression lines (and 95 percent confidence intervals for the regression) provide a visual assessment of inter-element associations, and calculated correlation coefficients provide a quantitative measure of the association. The plots in Appendix E show the data and the correlation coefficients for linear regression. EPA statistical guidance discusses several different types of correlation measures (EPA 2000a). Pearson's product-moment correlation coefficient was used and is the most common measure of association, although this calculation does assume a linear relationship and is sensitive to outliers.

Correlations between alkaline metals and alkaline-earth metals; aluminum and trace metals; silicon with selected metals; and radionuclide decay chain parent and daughter products were evaluated as summarized below.

Metals and Anions

Relationships were examined through the use of regression analysis and creation of scatter plots with regression estimates as a measure of the associations between alkaline metals and alkaline-earth metals; silicon with selected metals; and aluminum and trace metals. Selected plots are provided in Appendix E and discussed below.

Certain inter-element relationships are expected on the basis of geochemical behavior and expected mineralogical associations. For example, alkaline metals (such as lithium, sodium, and potassium) and alkaline-earth metals (such as barium, calcium, and magnesium) can be expected to behave similarly in solution and may therefore be expected to show an association in certain environmental media. Other metals are found in association in common minerals and show correlations in soils containing these minerals (such as feldspars; metal oxides such as hematite, goethite and pyrolusite; and carbonate minerals such as calcite). These associations are useful in

distinguishing soils derived from different source materials and in distinguishing site-related contamination from natural background.

The association of aluminum with trace metals was evaluated, and statistically significant associations were found for cobalt, chromium, nickel, copper, iron, manganese, phosphorus, titanium, and vanadium (see Appendix E). Trace metals such as cobalt, chromium, copper, nickel, and vanadium may occur as impurities in the common alumino-silicate family of minerals known as feldspars. Clays and other secondary aluminum minerals in soils may host sorption sites for trace metals, thereby associating these metals.

Strong inter-element correlations are normally expected between alkaline and alkaline-earth metals. A secondary population of samples with higher concentrations of barium resulted in poor correlations of barium with these and other analytes. The higher concentrations of barium in some samples, although greater than much of the BRC/TIMET background population, are not greater than the natural range for barium. As such, the barium results are accepted as background conditions because of the diligence used in the selection of sampling locations and the lack of known anthropogenic sources of barium. Correlations between most of the other alkaline and alkaline-earth metals are stronger, as expected. Table E-7 summarizes the correlation coefficients for alkaline and alkaline-earth metals.

A few samples contained silicon at concentrations at the high end of the range for most of the BRC/TIMET background soil samples. Whereas most samples contained about 300 to 1,400 mg/kg silicon, nine samples contained about 2,500 to 4,300 mg/kg silicon. Scatter plots of silicon versus several metals clearly show the cluster of high-silicon samples. Potassium is the only metal that shows a statistically significant correlation with silicon for all samples together or for the small cluster. Clay minerals and potassium feldspar contain potassium and silicon, so this association is expected; however, the lack of other metals (vanadium, aluminum, and iron) correlating with silicon suggests that most silicon is present as quartz. Despite this lack of

correlation, the range of silicon concentrations represents background conditions and should not impact the validity or use of the BRC/TIMET background dataset.

Radionuclides

Data for radionuclides in the thorium-232 and uranium-238 decay chains were evaluated for correlations of the parent and daughters within each decay chain. Relationships were examined through the use of regression analysis and creation of scatter plots with regression estimates as a measure of the associations.

Scatter plots with correlation analysis were constructed for radionuclides within the thorium-232 and uranium-238 decay chains and are included in Appendix E. Tables E-8 and E-9 summarize the correlation coefficients for radionuclides in the thorium-232 and uranium-238 decay chains. Species within the decay chains (parents and daughters) should show statistically significant correlations in most cases unless there are great differences in geochemical behavior and sufficient mechanisms to separate the species. The same generally holds true for radionuclides in the thorium-232 decay chain (actinium-228, bismuth-212, radium-228, thorium-228, and thallium-208). In general, most of the radionuclides in the uranium-238 decay chain (bismuth-214, lead-210, lead-214, protactitnium-234, radium-226, thorium-230, thorium-234, and uranium-234) did show statistically significant associations. Appendix E provides scatter plots of the correlation of radium-226 activities with lead-214, thorium-230, uranium-234, and uranium-238.

Scatter plots are also useful for showing outliers, such as the reported value of 7.6 mg/kg uranium in one sample, and for checking the accuracy of analytical results. For example, the measured activity (in pCi/g) for uranium isotopes should correlate directly with the measured mass (in mg/kg) of uranium. If the correlation coefficient for this relationship is calculated including the 7.6 mg/kg outlier, the correlation coefficient (r) is 0.153 and is not statistically significant. Without plotting the data, the reason for the poor correlation may not be obvious.

Excluding this outlier results in a statistically significant correlation coefficient of 0.519 (see Appendix E).

Another check of the accuracy of the analytical results for uranium isotopes is the comparison of uranium-234 and uranium-238 activities. Although uranium-238 constitutes more than 99 percent of the mass of natural uranium, uranium-234 is much more radioactive than uranium-238. This results in an activity ratio of 1 for uranium-234: uranium-238 in naturally occurring uranium. Regression analysis shows a strong relationship ($r = 0.876$) between the activities of these two uranium isotopes (see Appendix E).

4.0 SUMMARY AND CONCLUSIONS

The purpose of the BRC/TIMET background study was to collect and analyze background soil samples for metals and radionuclides to develop a background dataset for comparison to Site soil data. Sampling was conducted in 2005, and soil samples were analyzed to provide a large dataset considered representative of background conditions for future site-to-background data statistical comparisons. The specific goals of this study are outlined in the Workplan (see Appendix A). The goals of the background study were met, and a valid background dataset has been generated.

Samples were collected from 11 properties from 33 soil boring locations that represent the range of soils found in the vicinity of the Site. It is reasonable to conclude that the background samples collected reflect background conditions for Site soils based on sampling location characteristics information obtained from published documentation, site inspection, and sample collection.

A total of 104 independent soil samples were collected from the 33 borings for analysis. The TIMET project team chemist conducted data validation for the BRC/TIMET dataset that included 10 percent full validation and 90 percent partial validation. Results qualified as estimated based on the data validation are usable for the purposes of establishing background concentrations and for comparison to site-specific sample data. A total of 22 soil sample results (1.5 percent) were rejected. With 98.5 percent of the dataset validated as usable, the overall data collection objectives for the event were met.

Based on the Workplan, the minimum number of samples required to adequately characterize the chemistry of background samples was determined to be 24 samples from each depth interval, with a minimum of 72 samples. A sufficient sample of the population is available to support statistical comparisons of on-site and background datasets because at least 33 samples were collected from each depth interval and 104 samples were collected and analyzed. The dataset is

large enough to provide high levels of confidence and power in future Site-to-background statistical comparisons. The data can be used as one dataset or as subsets of several datasets depending on site-specific needs (such as surface soil analysis only). In addition to the analysis presented in Section 3.4, combining or separating the background dataset by depth for subsequent comparison with Site data will be influenced by potential exposures at varying depth ranges of a particular receptor – in other words, based on data usability considerations.

NDEP's contractor Neptune prepared a validation summary memorandum for the Environ background data set prepared for the City of Henderson (see Appendix D). The general conclusion is that the Environ dataset is suitable for inclusion into a soil background dataset; however, Environ dataset results for hexavalent chromium, radium-224, radium-226, and radium-228 should not be used.

The validated BRC/TIMET and Environ data were evaluated statistically using statistical plots, calculation of summary statistics, and statistical tests of hypothesis. Only two outliers were found in the BRC/TIMET dataset. One high-value outlier for uranium-238 was excluded from the working dataset. A high-value outlier for zinc was also noted but retained. Hexavalent chromium, radium-224, radium-226, and radium-228 results from the Environ dataset were excluded from statistical evaluation.

Normal probability plots and box-and-whisker plots were prepared to conduct comparison of BRC/TIMET data by depth intervals and location, comparison of BRC/TIMET and Environ data, and comparison of results for the combined BRC/TIMET/Environ dataset among depths and origins.

The statistical test of background soil sample data, based on location, suggest a number of statistically significant differences; however, because the data represent the range of background conditions at the site, there is no rationale for dividing the data into separate datasets based on location, soil origin, or study. The data are taken to represent the range of background

conditions of the site because (1) the analytes are naturally occurring; (2) samples were collected from soil materials derived from the same geologic source materials, exposed to the same weathering processes and in the same general vicinity; and (3) the sampling locations are not impacted by Site industrial activity or localized anthropogenic sources. In some cases, separate datasets may be used based on the statistical analysis results among depth intervals.

The following sections summarize the results for metals and anions, radionuclides, other parameters, comparison of BRC/TIMET and Environ data, comparison of BRC/TIMET/Environ data by depth intervals, and comparison of BRC/TIMET/Environ data by geologic setting.

4.1 METALS AND ANIONS

The BRC/TIMET data for naturally occurring metals and anions show a wide range of concentrations. The natural heterogeneity in soil chemistry reflects source material subjected to various soil-forming processes. Each BRC/TIMET sample was analyzed for a total of 43 metals and anions. Each Environ sample was analyzed for a total of 23 metals. No anions were analyzed in the Environ study.

4.2 RADIONUCLIDES

Activities for 35 radionuclides were reported for the BRC/TIMET study, including 22 from direct analysis and 13 that were back-quantitated. Activities for 15 radionuclides were reported for the Environ background study.

4.3 OTHER PARAMETERS

The BRC/TIMET background soil sample analyses included parameters such as pH, conductivity, TOC, and soil texture to provide additional insights into the comparability of soil samples collected from site and background areas or from different areas within a site. Because the concentrations of metals in solid media (such as soil and sediment) may be correlated with

grain size or TOC and because pH can radically affect the mobility of metals, collection and evaluation of data for supporting parameters may be used to assist in data evaluation.

4.4 COMPARISON OF BRC/TIMET AND ENVIRON DATA

The background soil samples for the BRC/TIMET study have a fair range of natural variability and heterogeneity; including as wide or wider range of concentrations as those found for the Environ background study. As such, the two data sets are not inconsistent with each other. Because the BRC/TIMET data span a broader geographic area and include 104 samples compared to 16 samples collected for the Environ study, this outcome is not unexpected. The results of this analysis indicate that the BRC/TIMET and Environ datasets are generally comparable and can be combined for further statistical evaluation and comparisons.

4.5 COMPARISON OF BRC/TIMET/ENVIRON DATA BY DEPTH INTERVAL

The results from comparison of the BRC/TIMET/Environ dataset among depth intervals suggest that data from all sampling intervals can be combined for future statistical evaluation for most metals; however, statistical evaluation and other considerations indicate significant differences for nine metals. The differences for lead likely result from anthropogenic background conditions, which differ from natural background conditions but which are not attributable to site-related contamination. Calcium, sodium, and uranium results indicate increasing concentrations with depth. Conversely, chromium, iron, lead, manganese, potassium, and zinc concentrations decrease with depth. These differences in surface and subsurface soil concentrations should be considered when using these background data for future comparisons.

Two radionuclides; uranium-235 and uranium-238 showed significant differences among all depths, with the highest activities at the 10 foot depth. The differences between the near surface (0 to 5 foot) and 10 foot depths soils should be considered when using uranium- 235 and uranium-238 decay chain background data for future site comparisons. For the remaining

radionuclides, based on professional judgment, the differences are not significant enough to create separate data sets.

4.6 COMPARISON OF MCCULLOUGH RANGE AND RIVER MOUNTAINS BACKGROUND DATA FOR BRC/TIMET/ENVIRON DATASET

The source rocks and soil types for the McCullough Range and River Mountains are similar, and the main factors for soil formation are the same for the alluvial fans derived from both ranges. The heterogeneity of the samples collected from alluvial fan materials from the northern McCullough Range generally encompass the range of concentrations found in the mixed alluvial fan locations and the River Range alluvial fan locations. Based on comparison of the BRC/TIMET/Environ dataset for areas downgradient from the McCullough Range and the River Mountains, with a few exceptions, the concentrations of metals and radionuclides in soil samples are comparable.

5.0 STATISTICAL GUIDANCE

Decisions on how best to use the background soils data for future Site-to-background comparisons will be made on a case-by-case basis. Exploratory data analysis using quantative statistical analysis and statistical plots will be conducted in all cases. Understanding the characteristics and structure of the data for each chemical in each data set is an important facet of exploratory data analysis. Statistical plots show how the site and background data sets compare with one another, and statistical plots such as normal probability and box-and-whisker plots are complementary illustrations of the data set that readily convey a large amount of information.

Guidance documents related to project planning and data collection as well as statistical evaluation and testing are available from the EPA and will be used in future studies.

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FIGURES

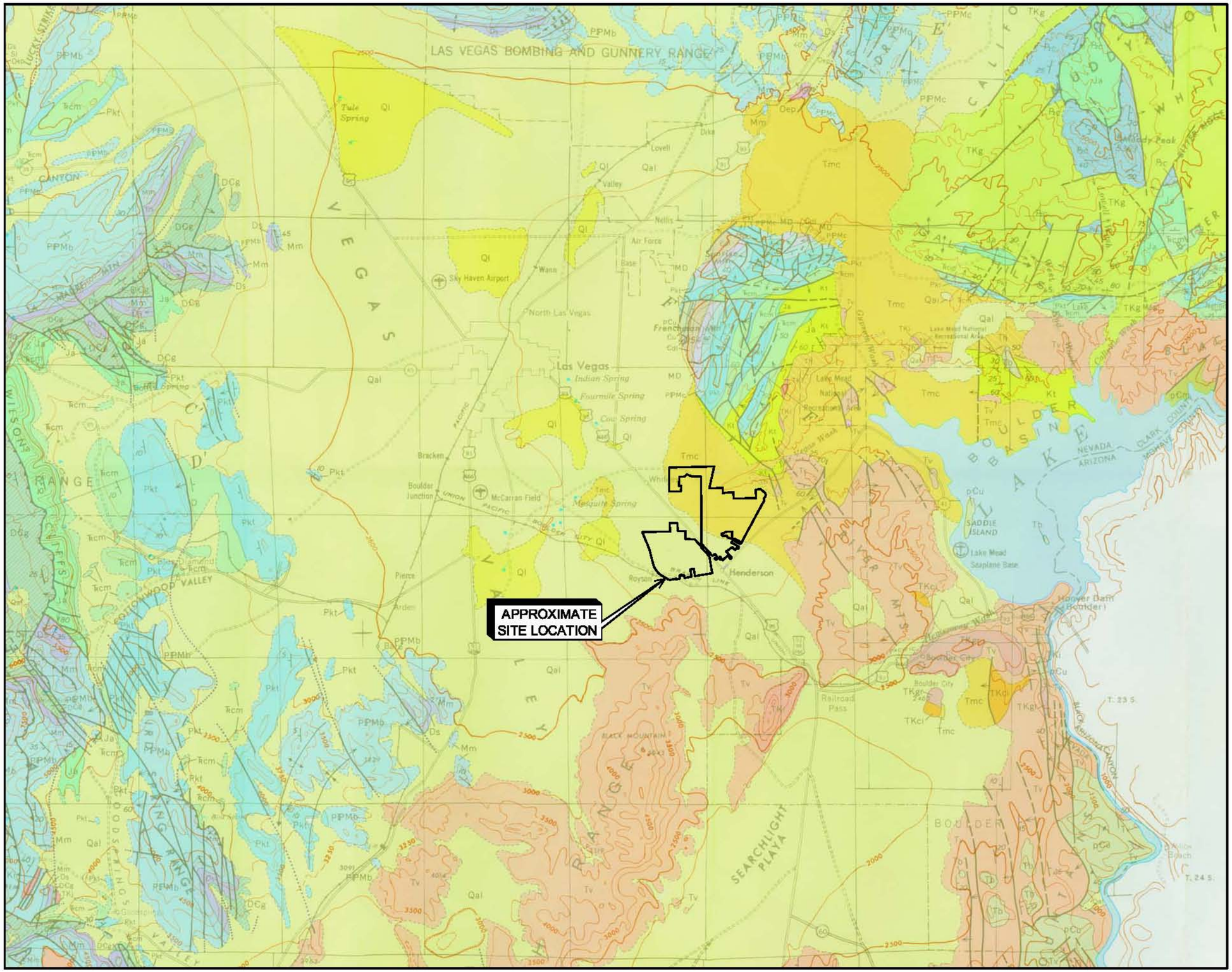
Includes:

Regional Geologic Map Legend (Figure 1A)

Uranium-238 Decay Chain (Figure 2)

Uranium-235 Decay Chain (Figure 3)

Thorium-232 Decay Chain (Figure 4)



NOTE: FOR REGIONAL GEOLOGIC MAP LEGEND, REFER TO FIGURE 1A.

SOURCE: GEOLOGIC MAP OF CLARK COUNTY, NEVEADA - C.R. LONGWELL, E.H. PAMPEYAN, AND BEN BOWYER.

Background Soil Summary Report
BMI Complex and Common Areas
Basic Remediation Company
Titanium Metals Corporation
Henderson, Nevada

FIGURE 1
REGIONAL GEOLOGIC MAP

TETRA TECH, Inc.

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EXPLANATION

WESTERN CLARK COUNTY

Bird Spring Formation (PPMb) — MISSISSIPPIAN, PENNSYLVANIAN AND PERMIAN — CARBONIFEROUS

Monte Cristo Limestone (Mm) — *Lower and Upper Mississippian* — MISSISSIPPIAN, PENNSYLVANIAN AND PERMIAN — CARBONIFEROUS

Sultan Limestone (Ds) — *Middle and Upper Devonian* — DEVONIAN

Lone Mountain Dolomite (Sl) — *Found only in northern Spring Mountains and west of Dry Lake Valley* — SILURIAN

Ely Springs Dolomite, Eureka Quartzite, and Pogonip Group, undifferentiated (Oep) — *Lower, Middle, and Upper Ordovician* — ORDOVICIAN

Eureka Quartzite, where present, shown as marker bed. Found only in northern Spring Mountains and west of Dry Lake Valley

Goodsprings Dolomite (DCg) — *(Found only in the area west and southwest of Las Vegas)* — CAMBRIAN TO DEVONIAN (?)

Stirling Quartzite and Johnnie Formation, undivided (pCsj) — PRECAMBRIAN

Aztec sandstone (Ja)

Chinle and Moenkopi Formations, undivided (Tcm)

EROSIONAL UNCONFORMITY

Kaibab, Toroweap, and Coconino Formations, and red beds, undivided (Pkt)

CLARK COUNTY

Alluvium (Qal)

Las Vegas Formation (Ql)

UNCONFORMITY

Volcanic rocks (Tv, Tb)

Tv, *undifferentiated volcanic rocks.*
Tb, *Fortification Basalt Member of Muddy Creek Formation*

Intrusive rocks (TKgr, TKi, TKci) — CRETACEOUS(?) AND TERTIARY

TKgr, *holocrystalline rock; mainly granite, quartz monzonite, granodiorite, and diorite*
TKi, *undivided porphyritic rocks. Includes granite porphyry, rhyolite, trachydolerite, and other intrusives ranging from basaltic to rhyolitic*
TKci, *undifferentiated intrusive rocks; mainly quartz monzonite and diorite containing roof pendants of volcanic rock, Paleozoic limestone and dolomite, and Precambrian rocks*

Dolomite and limestone, undivided (Cdl) — *Middle and Upper Cambrian*

Quartzite, shale, and limestone, undivided (Cu) — *Lower and Middle Cambrian* — CAMBRIAN

Includes Tapeats Sandstone, Wood Canyon Formation, Pioche Shale, Lyndon Limestone, Chisholm Shale, and Carrara Formation

UNCONFORMITY

Precambrian rocks (pCu, pCg, pCm) — PRECAMBRIAN

pCu, *Precambrian rocks, undivided (mapped separately in the Virgin and South Virgin Mountains)*
pCg, *Gold Butte Granite of Longwell, 1936.*
pCm, *gneiss and schist.*

Paleozoic carbonate rocks, undifferentiated (Pc) — *Found only in Muddy Mountains*

Remnants of thrust plate (Pzt) — *Paleozoic rocks of Pennsylvanian to Cambrian age. Found only in North Muddy Mountains*

EASTERN CLARK COUNTY

Muddy Creek Formation (Tmc) — *Pliocene (?)* — QUATERNARY

ANGULAR UNCONFORMITY

Horse Spring Formation (Th) — TERTIARY

Overton Fanglomerate (TKo) — CRETACEOUS(?) OR TERTIARY(?)

Gale Hills Formation (TKg) — *Mapped only south of the Muddy Mountains*

Thumb Formation (Kt) — *Mapped only northwest of Boulder Basin. May be correlative with lower part of Gale Hills Formation*

ANGULAR UNCONFORMITY

Baseline Sandstone (Kbu, Kbl) — CRETACEOUS

Kbu, *upper member.*
Kbl, *lower member*

Willow Tank Formation (Kwt)

ANGULAR UNCONFORMITY

TRIASSIC JURASSIC(?)

Callville Limestone (PPMc) — PERMIAN, MISSISSIPPIAN, PENNSYLVANIAN AND PERMIAN — CARBONIFEROUS

Rogers Spring Limestone (Mr) — MISSISSIPPIAN

Rogers Spring Limestone and Muddy Peak Limestone, undivided (MD) — DEVONIAN AND MISSISSIPPIAN

Grouped only in Frenchman Mountain

Muddy Peak Limestone (Dmp) — DEVONIAN, SILURIAN, ORDOVICIAN

Mapped only in Virgin and South Virgin Mountains

SOURCE: GEOLOGIC MAP OF CLARK COUNTY, NEVEADA - C.R. LONGWELL, E.H. PAMPEYAN, AND BEN BOWYER.

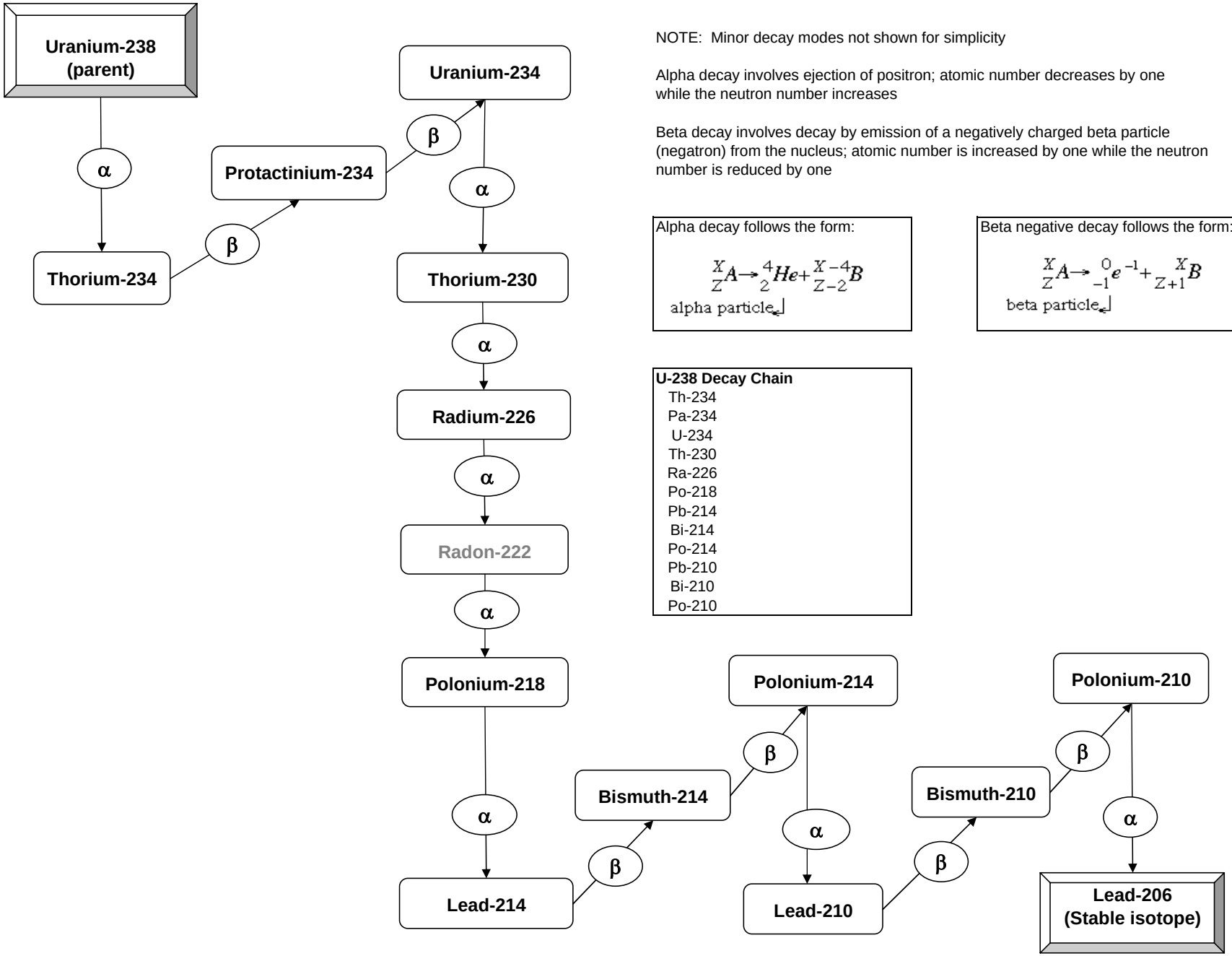
Background Soil Summary Report
BMI Complex and Common Areas
Basic Remediation Company
Titanium Metals Corporation
Henderson, Nevada

FIGURE 1A
REGIONAL GEOLOGIC MAP LEGEND

TETRA TECH, Inc.

S:\Project Directory\Private Sector - Houston\P2554 - TIME\TP0655 - Time\EQI Response 2004\No Further Action Request\New Figure\ Figure 1A.dwg 03/08/2006 troy.fagan DN

FIGURE 2
URANIUM-238 DECAY CHAIN



NOTE: Minor decay modes not shown for simplicity

Alpha decay involves ejection of positron; atomic number decreases by one while the neutron number increases

Beta decay involves decay by emission of a negatively charged beta particle (negatron) from the nucleus; atomic number is increased by one while the neutron number is reduced by one

Alpha decay follows the form:

$$ {}^{X}_{Z}A \rightarrow {}^{4}_{2}He + {}^{X-4}_{Z-2}B $$

alpha particle

Beta negative decay follows the form:

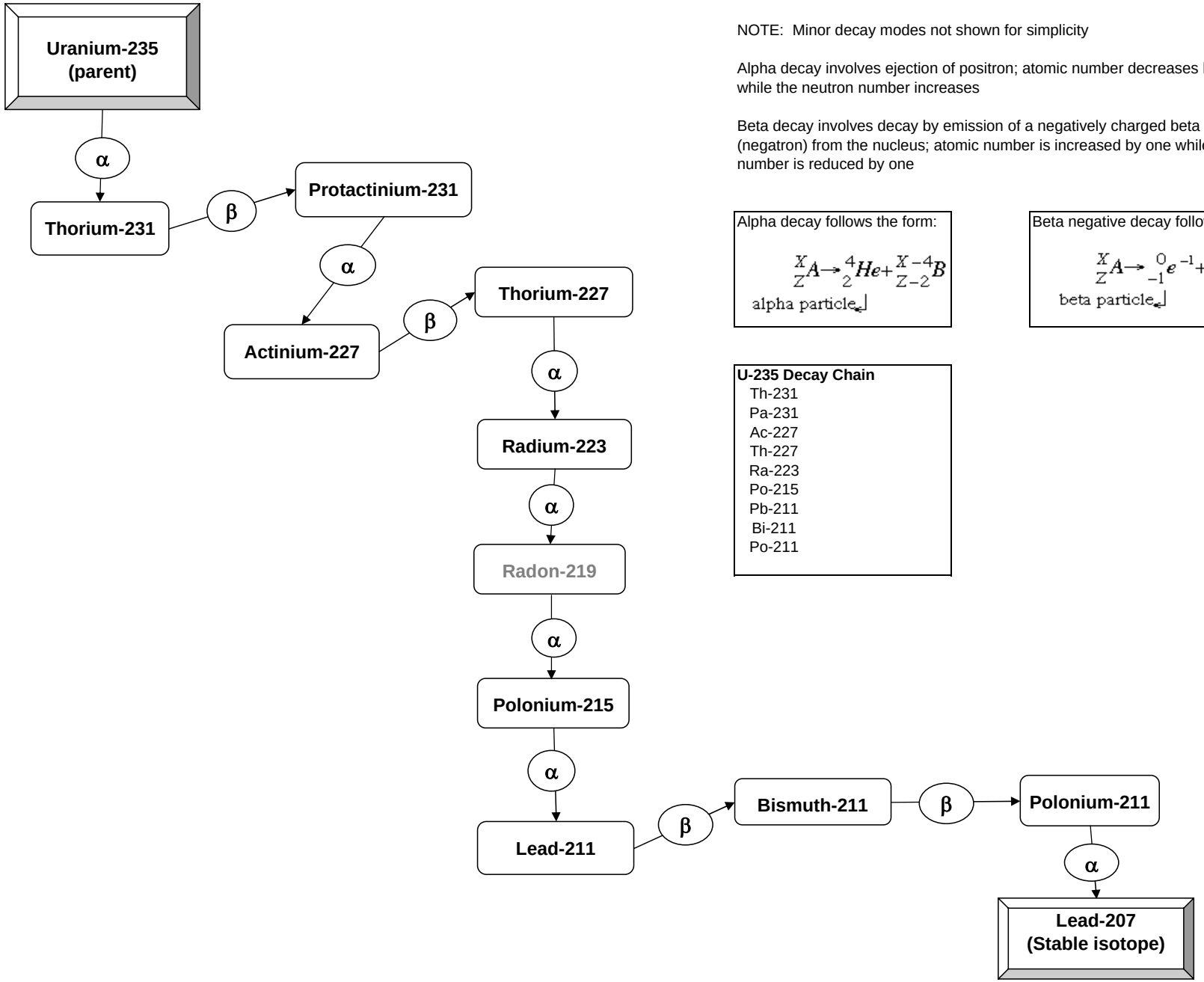
$$ {}^{X}_{Z}A \rightarrow {}^{0}_{-1}e^{-1} + {}^{X}_{Z+1}B $$

beta particle

U-238 Decay Chain

Th-234
Pa-234
U-234
Th-230
Ra-226
Po-218
Pb-214
Bi-214
Po-214
Pb-210
Bi-210
Po-210

FIGURE 3
URANIUM-235 DECAY CHAIN



NOTE: Minor decay modes not shown for simplicity

Alpha decay involves ejection of positron; atomic number decreases by one while the neutron number increases

Beta decay involves decay by emission of a negatively charged beta particle (negatron) from the nucleus; atomic number is increased by one while the neutron number is reduced by one

Alpha decay follows the form:

$$ {}^{X}_{Z}A \rightarrow {}^{4}_{2}He + {}^{X-4}_{Z-2}B $$

alpha particle

Beta negative decay follows the form:

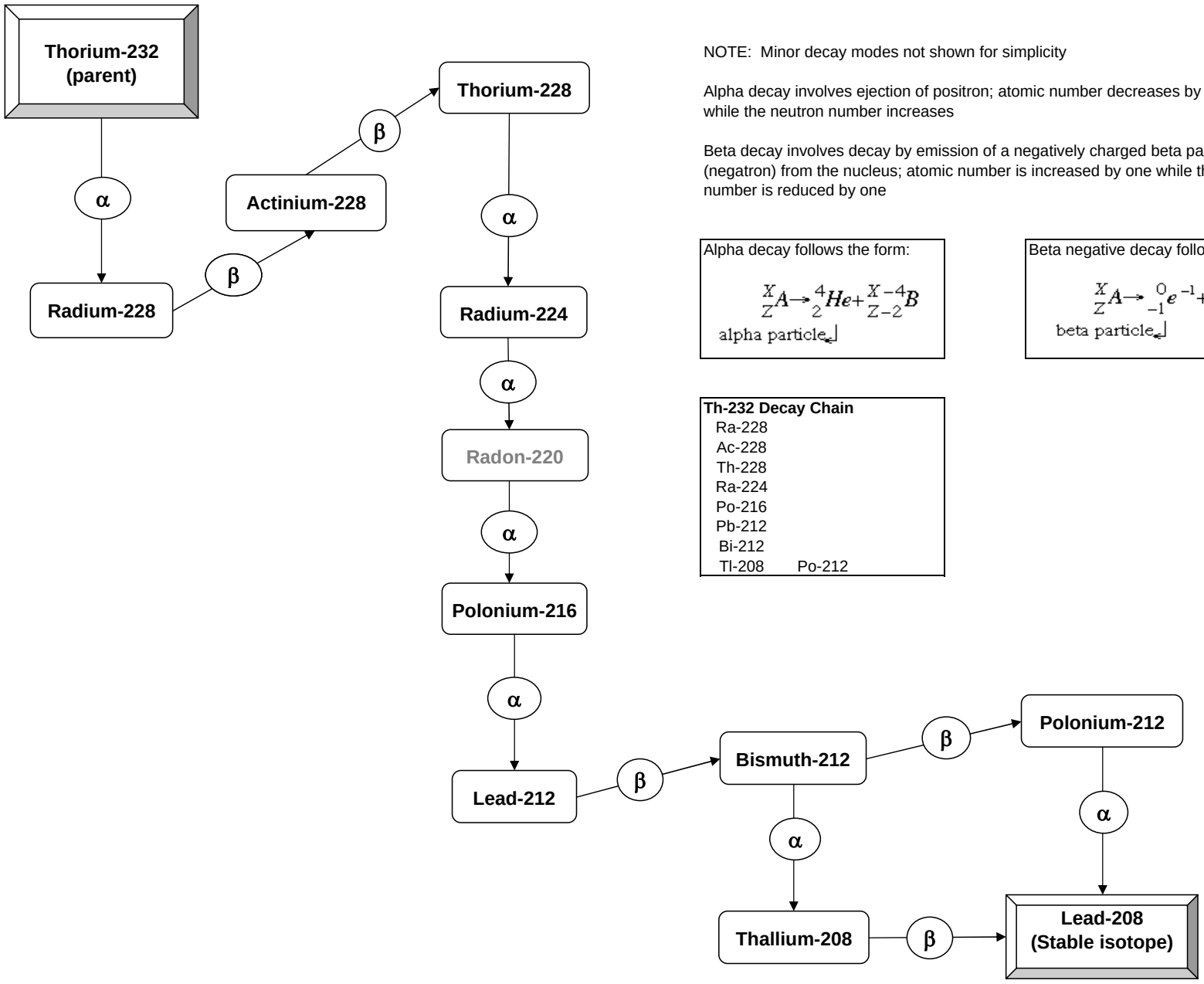
$$ {}^{X}_{Z}A \rightarrow {}^{0}_{-1}e^{-1} + {}^{X}_{Z+1}B $$

beta particle

U-235 Decay Chain

Th-231
Pa-231
Ac-227
Th-227
Ra-223
Po-215
Pb-211
Bi-211
Po-211

FIGURE 4
THORIUM-232 DECAY CHAIN



NOTE: Minor decay modes not shown for simplicity

Alpha decay involves ejection of positron; atomic number decreases by one while the neutron number increases

Beta decay involves decay by emission of a negatively charged beta particle (negatron) from the nucleus; atomic number is increased by one while the neutron number is reduced by one

Alpha decay follows the form:

$$ {}^{X}_{Z}A \rightarrow {}^{4}_{2}He + {}^{X-4}_{Z-2}B $$

alpha particle

Beta negative decay follows the form:

$$ {}^{X}_{Z}A \rightarrow {}^{0}_{-1}e^{-1} + {}^{X}_{Z+1}B $$

beta particle

Th-232 Decay Chain

Ra-228
Ac-228
Th-228
Ra-224
Po-216
Pb-212
Bi-212
Tl-208 Po-212

APPENDIX A

Includes:

Meeting Minutes between NDEP, TIMET, and BRC, dated June 8, 2005
Comment Letter from NDEP to BRC and TIMET, dated May 27, 2005
Background Soil Sampling Workplan, dated April 2005

Meeting Minutes

Project:	TIMET and BMI Common Areas
Location:	telephone
Time and Date:	2:00 PM, Wednesday, June 8, 2005
Meeting Number:	---
In Attendance:	NDEP-BCA – Brian Rakvica, Jennifer Carr, Jeff Johnson Broadbent & Associates – Kirk Stowers TetraTech/T2 – Victoria Coker, Kathy Allford, Candy Friday, Mary Siders BRC – Ranajit Sahu TIMET – Craig Wilkinson Neptune and Company – Paul Black

CC: Jeff Johnson

1. Meeting was held to discuss remaining comments on background soil sampling plan.
2. General discussion, it was noted that the NDEP "comfort letter" has helped. BRC/TIMET has completed a drive-by re-survey of the locations. BRC/TIMET hopes to begin sampling next week.
3. Reviewed the NDEP 5/27/05 letter on a comment by comment basis. It should be noted that comments were agreed with or concurred with except as noted below.
4. NDEP comment #1 – BRC/TIMET noted that it is not planned to add dioxins/furans to the analyses at this time. BRC is reviewing the national urban dioxin background data and noted that analysis for dioxins/furans may be considered in the future.
5. NDEP comment #2 – BRC/TIMET noted that this would be evaluated after the data is collected.
6. NDEP comment #3a – BRC/TIMET confirmed that hollow stem auger would be used.
7. NDEP comment #3b - BRC/TIMET clarified that an equal volume will be collected in each interval and will be homogenized.
8. NDEP comment #4a - BRC/TIMET will summarize in the report following data collection.
9. NDEP comment #4b – discussed the fact that it is necessary to form converging lines of evidence with the statistical tests (conduct multiple tests). TIMET noted that the sample size calculation should be included as part of Step 6. Paul Black to re-review.
10. NDEP comment #5 – NDEP noted that the purpose of the call was to resolve the issues outlined in the letter. It is not necessary to re-issue the DQOs because of practical constraints associated with the collection of the background samples. At this point in time, the important thing is to collect the samples.
11. NDEP comment #5c – NDEP clarified that it is the expectation of the NDEP that DQOs will be completed in accordance with the USEPA guidance and that the

details of the DQO process should be outlined in the table or the text. In the future, the text will include the information in the EPA format for DQOs; specifically, the alternative actions will be provided under Step 2 instead of in Step 5, and the significance level for statistical tests will be listed in the DQO table instead of just in the text (Comment 12). A list of possible statistical tests will also be presented, while still acknowledging that the characteristics of the data must be assessed before selecting the most appropriate statistical test(s).

12. NDEP comment #5e – confidence will be added to the tables.
13. NDEP comment #5g - BRC/TIMET confirmed that all depths would be compared.
14. NDEP comment #6a - BRC/TIMET noted that radium-224 would be back-quantitated. TIMET also noted that radionuclides with short half-lives do not have hold time issues because in secular equilibrium, the radionuclide is also being replenished while it is decaying. The matter is just an analysis issue. Post-meeting note: after further discussion, TIMET noted that radium-224 would be analyzed.
15. NDEP comment #6b, extensive discussion regarding uranium-235 and its daughter products.
    a. TIMET noted that U-235 is typically present in the natural environment in much less abundant quantities than U-234/U-238. It was also discussed that U-235 typically represent ~1/20 of the risk of U-234 and U-238, because the contribution of radioactivity from U-235 in naturally occurring uranium is much less than the radioactivity contribution from U-234 and U-238. In addition, it was noted that the TIMET process is not expected to concentrate U-235 or its daughter products in a fashion that is different than the natural environment.
    b. BRC/TIMET to evaluate and may add the analysis of U-235 daughter products for completeness.
16. NDEP comment #6c – agreed that gross alpha and gross beta would be eliminated.
17. BRC/TIMET noted that a revised/corrected Table 3 would be distributed.
18. Discussion of statistical issues: Paul discussed the software that is available form Neptune and Company. BRC/TIMET are interested in using this software. Paul and BRC/TIMET to work out the details of this at a later date. Using the Neptune software would allow easier "checks" of the calculations. The Gehan test is available in commercial software, but only for right-censored data (survival analysis). We deal with left-censored data in our environmental data sets.
19. BRC/TIMET noted that they would provide notice to NDEP when sampling will be conducted.

LEO M. DROZDOFF, *Administrator*

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STATE OF NEVADA
KENNY C. GUINN
Governor

ALLEN BIAGGI, *Director*

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Corrective Actions
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NDEP.nv.gov

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
333 W. Nye Lane, Room 138
Carson City, Nevada 89706

TO: ROD SAHU
VIA FAX w/
HARD COPY TO
FOLLOW
626 308 0421
567 0473

May 27, 2005

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Response to:
Background Soil Sampling Workplan – BMI Common Areas and Complex Vicinity
dated April 2005
NDEP Facility ID# H-000688 and H-000537

Dear Messrs Paris and Wilkinson:

The NDEP has received and reviewed BRC's and TIMET's correspondence identified above and provides comments in Attachment A. The NDEP requests that BRC/TIMET proceed with the collection and analysis of the samples as identified in the plan. The NDEP would like to discuss the issues outlined below with BRC/TIMET in the form of a conference call. The conference call shall be conducted prior to completion of field work to ensure that these issues are resolved before data interpretation by the companies begins. Please contact Brian Rakvica at (702) 486-2870 or brakvica@ndep.nv.gov by **June 10, 2005** to set up this call.

Should you have any questions or concerns, please do not hesitate to contact me at (775) 687-9373.

Sincerely,

Jennifer L. Carr, P.E., C.E.M.
Remediation Branch Supervisor
Bureau of Corrective Actions

CRAIG WILKINSON
565 2689
KIRK SAUERS
563 0610
VICTORIA LOEBER
832 251 5170

VIA FAX WITH HARD COPY TO FOLLOW

BAR:JLC
Co's Page 2.

cc: Jim Najima, NDEP, BCA, Carson City
Brian Rakvica, NDEP, BCA, Las Vegas
Jeff Johnson, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, 240 Water Street, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901
Carrie Stowers, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BEC, 875 West Warm Springs Road, Henderson, Nevada 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Kerr-McGee Chemical LLC, PO Box 55, Henderson, Nevada 89009
Lee Erickson, Stauffer Management Company, 1800 Concord Pike, Hanby 1, Wilmington, DE 19850-5437
Chris Sylvia, Pioneer Americas LLC, 8000 Lake Mead Parkway, Henderson, Nevada 89015
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Bricksen Avenue NE, Suite 380, Bainbridge Island, WA 98110

ATTACHMENT A
NDEP Comments to the April 2005 Background Soil Sampling Workplan

1. Section 1.1, page 1, this sampling plan does not address background concentration of dioxins/furans. Please explain if BRC/TIMET plan to collect background samples for these compounds in the future.
2. Section 2.1, page 8, table, it should be noted that 10 of the 11 sample locations are derived from the McCullough mountain range. 1 sample is derived from a mixture of the McCullough and River mountain ranges. More than half of the samples collected by Environ are derived from the River mountain range. Portions of the BMI Common Areas are derived from the River mountain range exclusively. If it is found that the data from the McCullough and River mountain ranges are statistically different BMI may not have sufficient new data to supplement the Environ data set. Section 1.1 of this report identifies that part of the purpose of this workplan is to provide data for analytes not included in the existing background data set collected by Environ; and to provide data for several depth intervals, in addition to the depth intervals collected by Environ. The sampling plan (as proposed) may not satisfy these goals if it is found that the data from the McCullough and River mountain ranges are statistically different. This comment does not require a response, however, it is suggested that BRC/TIMET attempt to identify additional background sampling locations that can be tied to the River mountain range if additional sampling is needed.
3. Section 2.2, page 9, the NDEP has the following comments:
   a. BRC/TIMET indicates that a direct push or hollow stem auger will be used to collect the samples. Based on the NDEP's discussion with BRC/TIMET it was understood that a hollow stem auger would be used exclusively. Please clarify.
   b. BRC/TIMET does not discuss the volume of soil sample to be collected. It was the understanding of the NDEP that the volume of soil sample would be identical in each depth interval. This is a comparability issue that should be discussed.
4. Section 3.2, pages 18 through 20, the NDEP has the following comments:
   a. Please summarize the existing data set (the Environ data set) that is proposed to be compared to the new data set. This summary should include: location identifier, depth interval, and soil type.
   b. BRC/TIMET do not describe how the comparisons between the data sets will be made. The only statement is that "Statistical tests for comparing data sets will be selected based on the characteristics of the data sets." Please be advised that the methods used to evaluate this data will be evaluated once submitted.
   c. On page 19, four comparisons are listed. It is the belief of the NDEP that the sample size was selected to satisfy the 2nd comparison (McCullough versus River) and would like to note that the data set may not be sufficient to satisfy the 4th comparison (site soils versus background soils). This issue should be discussed further. In addition, it is recommended that the calculations for sample size for the 3rd and 4th comparisons be presented.
5. Table 1, the NDEP has the following comments:
   a. General, the NDEP has significant comments on these tables and believes that these issues can be best addressed in the conference call. Some select examples are provided below.

b. Step 1, the first problem statement is extraneous and should be removed as it is duplicated in the 2nd and 3rd problem statements.
c. Step 2, BRC/TIMET has identified the principal study questions, however, BRC/TIMET still has not identified alternative actions or decision statements.
d. Step 4, all practical constraints have still not been identified. For example, the ability to obtain access agreements to all of the background sample locations is a constraint. Another practical constraint is the encroachment of development on the background sample locations. This encroachment may result in a background sample location being chemically compromised or lost to development. This discussion is important for justifying the number of soil samples that are taken.
e. Step 5, BRC/TIMET uses the phrase "statistically indistinguishable", however, the statistical parameters are not described. For example, $p<0.05$ or $p>0.05$. A reference to the appropriate text section and a brief description should be provided.
f. Step 5, decision rule 5a, BRC/TIMET states "If concentrations of site-related chemicals in site soils are statistically indistinguishable from concentrations in these background soils, then eliminate these chemicals as COPCs." It should be noted that this activity might occur in the future, once site soils are sufficiently characterized. Site soils may not be sufficiently characterized to complete this activity at this time.
g. Step 6, the NDEP has the following comments:
    i. The meaning and purpose of the first null hypothesis are not evident. It appears that this hypothesis may be referring to the physical soil characteristics. Please clarify or delete this null hypothesis.
    ii. This step does not discuss the comparison of concentrations in the 4-6' depth interval with the 9-11' depth interval (see Step 2 item 2). Please clarify.

6. Table 3, the NDEP has the following comments:
    a. Please discuss the half-life of radium-224 and how this relates to the proposed analytical method and holding time for this sample. BRC/TIMET should also verify the practicality of sampling other radionuclides with short half-lives. If necessary, please revise and resubmit this table.
    b. A majority of the uranium-235 decay series is omitted and is a site-related chemical for the TIMET site. Please modify the table as needed.
    c. It is the belief of the NDEP that it is not necessary to include gross alpha and gross beta in this background study since BRC/TIMET is analyzing for the individual radionuclides. If BRC/TIMET disagrees, please provide justification for the inclusion of gross alpha and gross beta.

TABLE 3
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

Parameter of Interest	Analytical Method	Compound List	CAS Number	Practical Quantitation Limit	
Metals	**EPA 6020/6010B**	*Aluminum*	7429-90-5	3	mg/kg
		Antimony	7440-36-0	1	mg/kg
		Arsenic	7440-38-2	1	mg/kg
		Barium	7440-39-3	2	mg/kg
		Beryllium	7440-41-7	0.5	mg/kg
		Boron	7440-42-8	5	mg/kg
		Cadmium	7440-43-9	0.5	mg/kg
		Calcium	7440-70-2	50	mg/kg
		Chromium	7440-47-3	1	mg/kg
		Cobalt	7440-48-4	0.5	mg/kg
		Copper	7440-50-8	1	mg/kg
		Iron	7439-89-6	10	mg/kg
		Lead	7439-92-1	0.3	mg/kg
		Lithium	1313-13-9	5	mg/kg
		Magnesium	7439-95-4	50	mg/kg
		Manganese	7439-96-5	1	mg/kg
		Molybdenum	7439-98-7	1	mg/kg
		Nickel	7440-02-0	1	mg/kg
		Niobium	7440-03-1	12.5	mg/kg
		Palladium	7440-05-3	0.5	mg/kg
		Phosphorus	7723-14-0	50	mg/kg
		Platinum	7440-06-4	0.5	mg/kg
		Potassium	7440-09-7	50	mg/kg
		Selenium	7782-49-2	0.5	mg/kg
		Silicon	7440-21-3	50	mg/kg
		Silver	7440-22-4	1	mg/kg
		Sodium	7440-23-5	50	mg/kg
		Strontium	7440-24-6	1	mg/kg
		Thallium	7440-28-0	1	mg/kg
		Tin	7440-31-5	1	mg/kg
		Titanium	7440-32-6	1	mg/kg
		Tungsten	7440-33-7	2.5	mg/kg
		Uranium	7440-61-1	1	mg/kg
		Vanadium	7440-62-2	1	mg/kg
		Zinc	7440-66-6	2	mg/kg
		Zirconium	14940-68-2	10	mg/kg
	EPA 7196A	*Chromium (VI)*	18540-29-9	10	mg/kg
	EPA 7470/7471A	*Mercury*	7439-97-6	0.03	mg/kg
Radiochemicals	**EPA 901.1 or HASL AM02**	*Actinium-228*	14331-83-0	0.8	pCi/g
		Bismuth-212	14913-49-6	1.2	pCi/g
		Bismuth-214	14733-03-0	0.4	pCi/g
		Cobalt-57	13981-50-5	0.1	pCi/g
		Cobalt-60	10198-40-0	0.1	pCi/g
		Lead-210	14255-04-0	1.5	pCi/g
		Lead-212	15092-94-1	0.2	pCi/g
		Lead-214	15067-28-4	0.3	pCi/g
		Potassium-40	13966-00-2	1.5	pCi/g
		Radium-223	15623-45-7	1.0	pCi/g
		Radium-224	13233-32-4	1.5	pCi/g
		Thallium-208	14913-50-9	0.2	pCi/g
		Thorium-227	1563-47-9	0.5	pCi/g
		Thorium-234	15065-10-8	0.2	pCi/g
	EPA 9315	*Radium-226*	13982-63-3	1.0	pCi/g
	EPA 9320	*Radium-228*	15262-20-1	1.0	pCi/g
	HASL 300 A-01R	*Thorium-228*	14274-82-9	1.0	pCi/g
		Thorium-230	14269-63-7	1.0	pCi/g
		Thorium-232	7440-29-1	1.0	pCi/g
		Uranium-233/234	13966-29-5	1.0	pCi/g
		Uranium-235	15117-96-1	1.0	pCi/g
		Uranium-238	7440-61-1	1.0	pCi/g

TABLE 3 (Continued)
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

Parameter of Interest	Analytical Method	Compound List	CAS Number	Practical Quantitation Limit	
Radiochemicals (continued)	**Quantitate from Parent Radionuclide**	*Actinium-227 (from Th-227)*	14952-40-0	*	pCi/g
		Bismuth-210 (from Pb-210)	14331-79-4	*	pCi/g
		Bismuth-211 (from Th-227)	7440-69-9	*	pCi/g
		Lead-211 (from Th-227)	7439-92-1	*	pCi/g
		Polonium-210 (from Bi-210)	13981-52-7	*	pCi/g
		Polonium-212 (from Bi-212, adjusted for branching ratio)	13981-52-7	*	pCi/g
		Polonium-214 (from Bi-214)	15735-67-8	*	pCi/g
		Polonium-215 (from Th-227)	7440-08-6	*	pCi/g
		Polonium-216 (from Ra-224)	15756-58-8	*	pCi/g
		Polonium-218 (from Ra-226)	15422-74-9	*	pCi/g
		Protactinium-231 (from Th-227)	14331-85-2	*	pCi/g
		Protactinium-234 (metastable isotope; from U-238)	15100-28-4	*	pCi/g
		Radium-223 (from Th-227)	15623-45-7	*	pCi/g
		Thallium-207 (from Th-227)	14133-67-6	*	pCi/g
		Thorium-231 (from U-235)	14932-40-2	*	pCi/g
Ions	**EPA 300.0**	*Chloride*	16887-00-6	5	mg/kg
		Fluoride	16984-48-8	1	mg/kg
		Nitrate (as N)	14797-55-8	0.25	mg/kg
		Nitrite (as N)	14797-65-0	0.25	mg/kg
		Sulfate	14808-79-8	5	mg/kg
Miscellaneous Soil Characteristics	**Lloyd Kahn Method**	*Total organic carbon (TOC)*	7440-44-0	10	mg/kg
	EPA 9045C	*pH*	NA	NA	pH units
	SM 2520B Modified	*Salinity*	NA	NA	salinity units
	EPA 9080 or 9081	*Cation Exchange Capacity*	NA	NA	meq/100g
	ASTM D422	*Soil Texture Class*	NA	NA	% of total
	ASTM D2216	*Percent Moisture*	NA	NA	%

Reporting Limits - Based on laboratory limits for primary laboratory (STL).
Laboratory limits are subject to matrix interferences and may not always be achieved in all samples.
* = Reporting limit for specific radionuclide to be set based on the performance of Cs-137 in the specific sample matrix

WORKPLAN

Basic Remediation Company
Titanium Metals Corporation

Background Soil Sampling Workplan

BMI Common Areas and Complex Vicinity

April 2005

0020638.50

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WORKPLAN

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April 2005

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Dr. Ranajit Sahu, C.E.M. (No. EM-1699, Exp. 10/2/2005)
BRC Project Manager

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances

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Kathryn T. Allford
Tetra Tech Technical Manager

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1.0 INTRODUCTION

This workplan presents the proposed scope of work for the collection of background soil data applicable to the BMI Common Areas/Complex in Clark County, Nevada. This general scope of work has previously been addressed in discussions between Basic Remediation Company (BRC) and Nevada Division of Environmental Protection (NDEP) representatives. Subsequent to those discussions, BRC and Titanium Metals Corporation (TIMET) recognized a joint need for determination of background conditions for their respective properties. Given the geographic proximity of their properties and the similar geology, BRC and TIMET are jointly proposing the scope of work presented in this workplan. As previously discussed, the general scope of work includes the collection of off-site soil samples from background areas and analysis of these soil samples for metals and radionuclides. In addition, the scope has been expanded to include collection and analysis of samples for general chemistry anions and soil characteristics.

1.1 PURPOSE

The purpose of this project is to collect data for metals and radionuclides in background soils that are comparable to site soils. These data will be used in future site-to-background statistical comparisons to be conducted during future site investigations. At present, insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed concentrations of these chemicals in background soil. The number of samples needed to achieve confidence and power goals for statistical tests is discussed in Section 1.2 (Data Quality Objectives), and Section 3.2 (Statistical Evaluation) of this work plan.

Background soils data collected during this investigation may also be pooled with background data collected by Environ for the City of Henderson (Environ, 2003). Data from the two studies will be pooled only if statistical comparisons indicate that the data are comparable.

This study will provide the following information needed for future site-to-background comparisons:

- Data for analytes not included in the existing background data set collected by Environ for the City of Henderson;

- Data for several depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet bgs), in addition to the soil depth ranges represented in the Environ 2003 data set (0 to 1 and 4 to 5 feet bgs);
- Data for a broader range of soil units applicable to the site, in addition to the soil units currently represented by the Environ data;
- Data to form a larger sample population to support statistical comparison of on-site (i.e., from BRC or TIMET property) and background sample data sets; and
- Data to form more than one background data set if required based on statistical comparisons of data from different geologic settings.

1.2 DATA QUALITY OBJECTIVES

This section summarizes the development of data quality objectives (DQOs) for the background sampling effort. This planning process was used to define the problem; identify the decisions to be made and the type, quality, and quantity of data needed to support decision-making; and to develop the sampling design for data collection to ensure the adequacy of data collected. The goal of the study is to provide representative data for characterizing the concentrations of metals, radionuclides, and anions (chloride, fluoride, sulfate, nitrate and nitrite) in background soils. These data will be used in future site-to-background comparisons.

US EPA's 7-step framework presented in *Guidance for the Data Quality Objective Process (*US EPA QA/G-4, July 2000, hereinafter "DQO Guidance") was followed in developing the project DQOs. DQOs provide a process for controlling decision errors by considering the purpose of collecting the data, defining the appropriate types of data needed, and specifying tolerable probabilities of making decision errors. The tolerable limits are established by stakeholders and are based on the consequences of making a decision error.

The DQO planning process was used to establish data collection and evaluation requirements. The data must be representative of background conditions and comparable to site data. Data from this study may be pooled with background soils data collected by Environ for the City of Henderson if statistical tests indicate the data sets are comparable. Increasing the size of the background data set will increase the confidence and power of statistical tests to be conducted for site-to-background comparisons, provided the variability of the data set remains the same.

Establishing a representative background data set of adequate size will increase the confidence in the results of statistical comparisons (site-to-background comparisons) conducted as part of BRC's closure process for the Upper and Lower Ponds and Ditches, and TIMET's Phase II investigation and remediation process.

The DQO process for this investigation of background soils is summarized in Table 1. That table provides discussions relevant to each of the following seven steps specified in the DQO guidance:

Step 1	State the Problem
Step 2	Identify the Decision
Step 3	Identify the Inputs to the Decision
Step 4	Define the Boundaries of the Study
Step 5	Develop a Decision Rule
Step 6	Specify Tolerable Limits on Decision Errors
Step 7	Optimize the Design for Obtaining Data

1.3 LOCATION AND GEOLOGIC SETTING

The BMI Common Areas and Complex are located in Clark County, Nevada, and are situated approximately 2 miles west of the River Mountains and 1 mile north of the McCullough Range (Figure 1). As seen in Figure 1, the local surface topography slopes in a westerly to northwesterly direction from the River Mountains and in a northerly to northeasterly direction from the McCullough Range. Near the BMI Common Areas and Complex, the surface topography slopes in a northerly direction towards the Las Vegas Wash. According to the Nevada Bureau of Mines and Geology (NBMG) *Las Vegas SE Folio Geologic Map* (1977) and the *Geologic Map of the Henderson Quadrangle, Nevada* (Bell and Smith, 1980), the River Mountains and McCullough Range consist of volcanic rocks: dacite in the River Mountains and andesite in the McCullough Range.

Based on the *Soils Survey of Las Vegas Valley Area, Nevada* (USDA SCS publication, 1985; hereinafter, "USDA Soils Survey") the following naturally occurring soils are present in the vicinity of the BMI Common Areas and Complex:

- Caliza (map units 184 and 187): This soil type represents the dominant soil type in the immediate vicinity of the BMI Common Areas and Complex. Unit 184 description: very gravelly sandy loam; a very deep

soil formed from different types of rock; forms in alluvium; generally forms on slopes of 2 to 8 percent. Unit 187 is found in two main areas: 1) west of the unit 184 occurrences to the west of BMI Complex and Common Areas, along the western boundary of the BMI Complex and transecting the northwestern Lower Ponds; and 2) south of the BMI Common Areas and southeast of the BMI Complex. It is similar to the description above, except it is "extremely cobbly" sandy loam. Unit 184 is primarily located in the area downgradient of both the River Mountains and the McCullough Range while unit 187 is located north of the McCullough Range and also in the areas east/northeast of the McCullough Range and west of the River Mountains.

- Caliza-Pittman-Arizo (map unit 182): This soil type is located in a thick band east of the BMI Common Areas and Complex and transects the southeastern most corner of the Upper Ponds. This soil type also occurs south and adjacent to an area of unit 184 found along the southern boundary of the BMI Complex. This soil consists of approximately 60 percent Caliza, 20 percent Pittman, and 15 percent Arizo. Caliza description: a very deep soil formed from different types of rocks; formed on erosional fan remnants. Pittman description: a moderately deep soil formed from different types of rock; forms on exposed remnants of alluvial fan deposits. Arizo description: a very deep soil formed from different types of rock; forms in channels; this complex forms on slopes of 0 to 8 percent. Unit 182 is located in areas northeast and east of the McCullough Range as well as areas west of the River Mountains.
- Arizo (map units 112 and 117): These soils are in localized areas south and east of the BMI Common Areas and Complex, and extend east of the Upper Ponds. They transect the Upper Ponds east of the Beta Ditch. Description: very gravelly loamy sand/very gravelly fine sandy loam; very deep soil that formed on recent alluvium and in channels; formed from various types of rock; they generally form on slopes of 0 to 8 percent.
- McCarran (map unit 326): This soil type is located northwest of the Lower Ponds, south of the Wash. Description: fine sandy loam/very cobbly fine sandy loam; a very deep soil formed from limestone and lacustrine sediments (high gypsum content); forms on relict alluvial flats; generally forms on slopes 0 to 8 percent.
- Caliza-Pittman (map unit 181): This soil type is located near the base of the McCullough range, within one quarter mile southwest of the BMI Complex, and approximately 1.5 miles southwest of the Upper Ponds. This unit consists of approximately 50 percent Caliza, 40 percent Pittman, and 10 percent Arizo (see descriptions of these

individual components above with map unit 182). The soil survey describes unit 181 as "extremely stony fine sandy loams" formed on erosional or exposed remnants of alluvial fan deposits derived from various kinds of source rock. This unit is described as deep to moderately deep and well drained.

A soils map reproduced from the 2004 USDA Soil Survey Geographic (SSURGO) database is presented in Figure 2; this map is based on the 1985 USDA Soils Survey. The soil type classification for the Upper and Lower Ponds proper is map unit 600, "slickens", a non-native unit. This term is presumed to reflect the non-native material observed in many of the Ponds. The soil type classification for the BMI Complex is map unit 615, "urban land". Native soils underlying the slickens and urban land are assumed to be consistent with the surrounding map units (i.e., primarily map unit 184, and, to a lesser extent, map units 112, 117, 182, 187, and 326).

Based on the locations of the soil units relative to the McCullough Range and the River Mountains, the topographic slope, and the dendritic geomorphology of the soil units, it is likely that the alluvium in which these soils formed was derived from the weathered volcanic rocks of the McCullough Range and/or the River Mountains. Mineral assemblages in these source rocks would be the primary contributor to concentrations of metals and radionuclides in the native soils. Parent materials for soils formed beneath the BMI Common Areas and Complex and surrounding areas are presumed to be the following:

Soil Unit	Source Material
112	McCullough Range and/or River Mountains (location specific)
117	McCullough Range and/or River Mountains (location specific)
181	McCullough Range
182	McCullough Range and/or River Mountains (location specific)
184	Combination of weathered rocks from both the McCullough Range and River Mountains
187	McCullough Range and/or River Mountains (location specific)

The McCullough Range is the primary source of materials upslope of the BMI Complex and the western hook of the Lower Ponds. Both the River Mountains and the McCullough Range are primary sources of materials upslope of the Upper Ponds. Based on the similarity in their descriptions

and common parent materials for these soils, units 181, 182, 184, and 187 are expected to exhibit similar ambient chemical concentrations downslope from both mountain ranges.

The similarity of chemical concentrations in background samples collected from soils downslope of the McCullough Range and the River Mountains will be evaluated statistically after collection and validation of analytical data for the background soil samples.

2.0 PROPOSED SCOPE OF WORK

This section identifies the proposed sampling locations, and presents the sampling and analysis methods to be employed.

2.1 PROPOSED SAMPLING LOCATIONS

The project team has performed a visual inspection of various undeveloped properties close to and upgradient of the Site that could be appropriate for this background soil-sampling program. The inspection identified eleven sampling locations that appear suitable for use in establishing background conditions[i]. These eleven locations are depicted in Figures 1 and 2. Figures 1 and 2 also depict the 2003 Environ background sampling locations for reference.

The eleven proposed locations were selected because they exhibit the following characteristics:

- They are off-site locations, in relatively close proximity to the Common Areas and the BMI Complex (Figure 2); however, they are sufficiently distant such that adverse impacts from Site operations are not likely;
- They are upwind of the BMI Common Areas and Complex area (see wind direction plots indicating the predominant wind direction from the south and southwest that are presented in Table 2) and are thus unlikely to have been affected by aerial deposition of wind-borne dusts or vapors from Common Areas or Complex operations; and
- They are upgradient of the Common Areas and BMI Complex and are thus unlikely to have been affected by overland transport of impacted sediments by surface water; the elevations of the proposed sampling locations are approximately 1900 to 2580 ft above msl as compared to the ground surface at the Common Areas (1800 to 1560 ft msl) and Complex (1880 to 1680 ft above msl).

The project team has selected sampling locations that represent a reasonably broad range of soil units consistent with those in the

[i] An additional location (ID#10) was originally identified, but was removed based on input from NDEP. The identification numbers for the remaining eleven locations were retained as originally defined.

immediate BMI Common Areas and Complex vicinity. Based on the information provided in the previous section, it is reasonable to assume that native soil samples collected within units 112, 117, 181, 182, 184, 187, and/or 326 reflect background conditions in the Common Areas and BMI Complex. As summarized below, the eleven proposed locations are expected to be representative of all of these units except 326; that unit has limited occurrence in the immediate vicinity of the BMI Common Areas and Complex.

Proposed Location Area[1]	Associated Mountain Range	Soil Unit per USDA Survey	Rationale for Inclusion in Data Pool
BRC-BKG-01 (A, B, C)[2]	McCullough	181	Unit comparable to units 182, 184, and 187 (Caliza-Pittman-Arizo and Caliza) found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-02 (A, B, C)	McCullough	181	As above, unit comparable to units 182, 184, and 187
BRC-BKG-03 (A, B, C)	McCullough	181	As above, unit comparable to units 182, 184, and 187
BRC-BKG-04 (A, B, C)	McCullough	117	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-05 (A, B, C)	McCullough	117	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-06 (A, B, C)	McCullough	182	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-07 (A, B, C)	McCullough	182	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-08 (A, B, C)	McCullough	117	Unit found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-09 (A, B, C)	McCullough	117 / 182 / 187	Units found in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-11 (A, B, C)	McCullough	184	Predominant soil unit in the immediate vicinity of the BMI Common Areas and Complex.
BRC-BKG-12 (A, B, C)	McCullough /River	112 / 182 / 117	Units found in the immediate vicinity of the BMI Common Areas and Complex; location planned to augment Environ sampling in vicinity (downslope of the McCullough Range and River Mountains).

Notes:

1 Sample collection will be from a minimum of eight locations. Diligent efforts will be made to obtain owner authorization to access all eleven proposed locations. In the event that access is not granted for a minimum of eight locations, alternate sampling locations will be identified.

2 Represents three independent borings installed at each proposed location (i.e. BRC-BKG-01-A, BRC-BKG-01-B, and BRC-BKG-01-C)

2.2 *SAMPLING PROCEDURE*

Soil samples will be collected from three borings (A, B, and C) drilled approximately 10 to 15 feet apart at at least eight of the above locations using a direct-push (GeoProbe or equivalent) rig or a hollow-stem auger rig. The three borings at each location are considered to be independent sampling locations. Sampling and sample handling procedures will be consistent with the Standard Operating Procedures (SOPs) developed for the Common Areas for both sampling methods, as provided in Part Three of Appendix D of the *Final Hydrogeologic Characterization Workplan- BMI Site – Clark County, Nevada* (MWH Americas, Inc., December 2003) (hereinafter, "Hydrogeologic Characterization Workplan"). Surface soil samples will be collected using a stainless steel trowel. Subsurface soils from each sampled two-foot interval (i.e., 4 to 6 feet below ground surface [bgs] and 9 to 11 feet bgs) will be homogenized in a stainless steel bowl. Subsurface soil samples will be collected from the homogenized soil for analysis.

Because insufficient data exist to evaluate whether concentrations of potential site-related chemicals in surface samples are not significantly different from subsurface samples, both horizons will be analyzed. The surface zone is considered to be the top 0.5 foot below ground surface. Subsurface is thus defined as the soil below 0.5 ft bgs.
Soil samples will be collected from the surface and subsurface in each boring: surface samples will be collected from 0-0.5 feet bgs, and subsurface samples will be collected from 4-6 ft bgs, and 9-11 ft bgs, as follows:

Zone	Sample Interval (ft bgs)
Surface	0 to 0.5
Subsurface	4 to 6; core homogenized
	9 to 11, core homogenized

Since three borings at at least eight locations will be advanced, a minimum of 24 samples from each sample interval will be collected, for a minimum total of 72 soil samples.

2.3 SAMPLE ANALYSIS

The samples will be submitted for analysis to a Nevada-certified laboratory (STL- St. Louis, Missouri office). Analysis of surface and subsurface soil samples will include a full suite of metals, anions (chloride, fluoride, sulfate, nitrate and nitrite) and radionuclides. The individual analytes, analytical methods, and practical quantitation limits (PQLs) are specified on Table 3. These analytes and methods are consistent with the analytical program previously established for the Common Areas project and the TIMET site with input from NDEP. For this project, the laboratory will be instructed to report analytical results to the sample-specific method detection limit (MDL), which is equivalent to the sample quantitation limit (SQL). Concentrations detected above the SQL but below the PQLwill be flagged with a qualifier to indicate an "estimated" concentration. Concentrations less than the SQL will be qualified as nondetections.

Background soil samples will be further evaluated by analysis of the following general soil characteristics: total organic carbon (TOC), pH, salinity, cation exchange capacity, soil texture and moisture content. These data will be used to define soil characteristics and assess soil heterogeneity.

2.4 QA/QC SAMPLES

Data quality is assessed or monitored by performing routine QC checks and/or analyzing QC samples throughout the project. QC procedures are used in the evaluation of data quality as it relates to a specific set of data. The purpose of QC activities is to provide methods for monitoring, verifying, or quantifying the consistency of data against established goals. QC will be monitored during the site closure sample collection activities, both in the field and in the laboratory, through the collection and analysis of QC samples. QC samples will be collected in the field and submitted to the laboratory for analysis. Results of QC samples will be analyzed to assess whether field procedures are compromising data quality. In addition, the laboratory will analyze several types of QC samples to monitor laboratory quality to demonstrate that the laboratory is producing data of acceptable quality.

This section details the various QC samples that will be collected and analyzed to verify project data are of acceptable quality and can be used for decision-making. The frequencies prescribed below are based on

recommendations in EPA SW-846 to document precision, accuracy, representativeness, comparability, and completeness.

2.4.1 Field Quality Control Samples

Several types of field QC samples will be collected and submitted for analysis. Each of the QC samples monitors a different aspect of the field effort. Results of QC sample analysis provide information regarding the adequacy of the sample collection and transportation of samples. The following QC samples will be incorporated in the background sampling program, at the frequency specified below.

2.4.1.1 Temperature Blanks

Temperature blanks will be used to monitor temperature within the sample coolers. Temperature blank results outside of acceptable limits (2° to 6°C) are indicative of unacceptable sample preservation for analyses with temperature preservation requirements, and may require the recollection of samples. Temperature requirements will not be applied to sample shipments that arrive at the laboratory within 4 hours of collection.

A vial set filled with organic-free water will be prepared and supplied by the laboratory, and placed in the sample cooler prior to collection of the samples. The temperature blank is stored with the sample until receipt at the laboratory, at which time its temperature is immediately measured and recorded on the sample log-in form. Temperature blanks will be included in ice-chests containing samples with temperature requirements (e.g., anions), but are not required for those samples undergoing analyses that do not have temperature preservation requirements (e.g., most metals, and radionuclides).

2.4.1.2 Rinseate Blanks

Rinseate blank samples will be used to monitor equipment decontamination procedures. Positive detections in the rinseate blank sample results may be an indication of ineffective equipment decontamination procedures and carryover contamination of subsequent samples collected using the same sampling equipment. Sample detections at similar concentrations as those reported in associated rinseate blank samples are considered suspect and may be qualified as estimated or non-detect during data validation. Rinseate blanks will be prepared by pouring contaminant-free, reagent water through the decontaminated equipment into sample containers. The sample will be given a QC name

consistent with the sample nomenclature established for the project. The sample label will be completed by field personnel to include date, cooler identification, and method of analysis, and the rinseate blank will then be stored with the project samples until they are delivered for analysis to the laboratory. Rinseate blanks will be collected at a frequency of one sample per 20 samples collected, or one per day.

2.4.1.3 Field Splits

Because matrix heterogeneity may affect interpretation of soil sample results, field splits (sub-samples collected from the same sample composited in the field) will be used to monitor field and laboratory precision. Split samples will be collected at a frequency of one set per 20 soil samples collected. While results are not qualified based on field split results, large variability may indicate that the sample is not representative.

2.4.2 Laboratory Quality Control Samples

Laboratory QC samples will include the use of method blanks, matrix spike (MS) samples, laboratory control samples, laboratory duplicates, and other laboratory QC measurements will be monitored to ensure accurate and precise results. The laboratory QC samples applicable to the background sampling effort are defined in the following subsections.

2.4.2.1 Method Blank

Method blanks will be used to monitor that the analytical system is free of contamination due to carryover from previous samples or from laboratory procedures. A method blank will be prepared using either laboratory reagent water or reagent soil. The reagent matrix will be prepared and analyzed in the same manner as the samples by the laboratory. A method blank will be performed at least once per day for each matrix and method utilized by the laboratory for that day. A maximum of 20 samples will be associated with a method blank. Target analytes should not be present at levels above the Practical Quantitation Limit (PQL) as shown in Table 3. Project samples that are associated with blanks that do not meet control criteria and exhibit detections of the blank contaminant will be reanalyzed and, if necessary, re-prepared and reanalyzed.

2.4.2.2 Matrix Spike

MS samples will be utilized to monitor and assess the effects of the sample matrix on the sample analysis and to verify accuracy of the analysis.

MS samples will be prepared by adding known quantities of target analytes to a sample. The results of the analysis will be compared with the known concentrations added to the sample, and a percent recovery will be calculated. The calculated recovery provides an evaluation of the effect of the sample matrix and accuracy of the analysis procedure. Accuracy objectives are based on statistically generated limits established annually by the analytical laboratory. No corrective action or reanalysis of samples is required for MS recoveries outside of acceptable limits, but the data will be qualified when spike recoveries are outside acceptable limits. MS samples will be prepared and performed by the laboratory at a frequency of one per batch of 20 samples.

2.4.2.3 Laboratory Control Sample

Laboratory control samples (LCSs) will be used to monitor the accuracy of the analytical procedure without the bias of a matrix. The LCS will be prepared similarly to a MS sample using the same spiking constituents, except a control (clean, reagent) matrix will be utilized. The LCS recovery will be calculated in the same way as the MS recovery. LCS objectives are based on statistically generated limits established annually by the analytical laboratory. LCSs with recoveries outside of acceptable limits will be reanalyzed along with each of the associated samples in the batch. LCS samples will be prepared and performed by the laboratory at a frequency of one per batch of 20 samples.

2.4.2.4 Laboratory Duplicate Sample

Laboratory duplicate samples (LDSs) will be used to monitor and assess laboratory precision as well as potential matrix heterogeneity. Laboratory duplicate samples will be performed by taking an additional aliquot of sample and analyzing it in the same manner as the samples. The two results will be compared and a relative percent difference (RPD) will be calculated. The RPD is compared to laboratory-derived control limits. If elevated RPDs are calculated, it is considered to be reflective of matrix heterogeneity. Affected data will be qualified when RPDs are the only QA/QC criterion. A laboratory duplicate will be performed at a frequency of one per batch of 20 samples.

2.4.2.5 Internal Standards

Internal standard calibration involves the comparison of instrumental responses from the target analytes in the sample to the responses of specific standards added to the sample or extract prior to injection. Internal standards will be conducted for each sample analysis performed

on instruments equipped with a mass spectrometer (for example, ICP-MS). The ratio of the peak area (or height) of the target compound in the sample or sample extract to the peak area (or height) of the internal standard in the sample or sample extract will be compared to a similar ratio derived for each calibration standard. The ratio is termed the response factor (RF). For this investigation, methods that utilize internal standards will be evaluated by the laboratory, and any necessary corrective action will be performed prior to finalization of the data set.

ICP-MS internal standard response will be compared to the initial calibration response. ICP-MS internal standard response should be within ± 30 percent of the intensity of the initial calibration standard. The retention time of the sample internal standards must be ± 30 seconds of the retention time observed in the continuing calibration standard. In the event that sample internal standards fail this criteria, the laboratory will either reanalyze and/or re-extract the sample to determine the source of the failure.

Dilution of the sample or extract may be required to reduce or remove interferences from the sample matrix. The laboratory will include response and/or retention time exceedences for failing internal standards in the associated data report.

2.4.2.6 Instrument Tune

The performance of an instrument equipped with a mass spectrometer detector will be checked at 12-hour intervals, and shown to be within method or manufacturer specifications prior to use. The checks will be performed to verify mass resolution, identification, and to some degree, sensitivity. Conformance will be determined using standard materials, therefore, the method or manufacturer's criteria should be met in all circumstances. Instruments with failing tunes will not be used to analyze project samples.

2.4.2.7 Interference Check Samples

Spectral interferences will be assessed during the analysis for metals using interference check procedures for ICP or ICP-MS. Interferences may be caused by background emission from continuous or recombination phenomena, stray light from high concentration elements, overlap of spectra from other elements, or unresolved overlap of molecular band spectra. The laboratory will correct and monitor these interferences through background corrections and the analysis of interference check

samples. Background corrections to the instrument will be performed following the EPA SW-846 method protocols.

The laboratory will analyze at least one interference check sample set with each batch of samples analyzed by ICP or ICP-MS. Necessary corrective actions (dilution or reanalysis) will be performed by the laboratory for samples exhibiting elevated concentrations of the known interferent analytes: aluminum, calcium, iron, and magnesium.

2.4.2.8 Post-Digestion Spike

A matrix spike will be conducted by spiking a sample before or during digestion. However, to separate matrix interferences from interferences introduced during the digestion of samples, it may be necessary to spike samples after the digestion (post-digestion spike). If the MS recovery is not within method-specified limits, a matrix effect should be suspected and a post digestion spike will be conducted. EPA SW-846 method protocols will be followed by the laboratory when performing post-digestion spikes.

3.0 DATA EVALUATION AND REPORTING

Data evaluation and reporting includes an assessment of the quality of the data, as described in the quality assurance and quality control (QA/QC) review process in the QAPP, as well as a geochemical and statistical evaluation of the data. These two types of data evaluation are described in the following sections.

3.1 DATA REVIEW

The data obtained during the background sampling activities described in this workplan will undergo a rigorous QA/QC review, in accordance with the procedures described in the Quality Assurance Project Plan (QAPP) developed for the Common Areas project (see Appendix D of the Hydrogeologic Characterization Workplan). This section describes the procedures that are planned to review, verify, and validate field and laboratory data. This section also discusses procedures for verifying that the data are sufficient to meet DQOs for the project. Only those data determined as a result to be suitable for use will be considered for the background data set.

3.1.1 Data Review, Verification, and Validation

Validation and verification of the data generated during field and laboratory activities are essential to obtaining defensible data of acceptable quality. Verification and validation methods for field and laboratory activities are presented below.

3.1.1.1 Field Data Verification

Project team personnel will verify field data through reviews of data sets to identify inconsistencies or anomalous values. Any inconsistencies discovered will be resolved as soon as possible by seeking clarification from field personnel responsible for data collection. All field personnel will be responsible for following the sampling and documentation procedures described in this workplan so that defensible and justifiable data are obtained.

Data values that are significantly different from the population are called "outliers." A systematic effort will be made to identify any outliers or errors before field personnel report the data. Outliers can result from

improper sampling or measurement methodology, data transcription errors, calculation errors, or natural causes. Outliers found during data verification as a result of sampling, measurement, or transcription errors will be identified and corrected; outliers that cannot be attributed to errors in sampling, measurement, transcription, or calculation will be clearly identified in project reports, but not excluded from the data set.

3.1.1.2 Laboratory Data Verification

Laboratory personnel will verify analytical data at the time of analysis and reporting and through subsequent reviews of the raw data for any nonconformances to the requirements of the analytical method. Laboratory personnel will make a systematic effort to identify any errors before they report the data. Outliers that result from errors found during data verification will be identified and corrected; outliers that cannot be attributed to errors in analysis, transcription, or calculation will be clearly identified in the case narrative section of the analytical data package, but will not be excluded from the data set.

3.1.1.3 Laboratory Data Validation

An experienced chemist, who is independent from the activities of this project and designated by the project QA Manager, will validate all laboratory data in accordance with current EPA national functional guidelines (EPA 1999, 2004). For this project, 90 percent of the data for project analytes will undergo data review in accordance with the project QAPP and 10 percent of the data for project analytes will undergo full validation. Requirements for cursory and full validation are listed below.

3.1.1.4 Data Review

Data review will be completed on 90 percent of the summary data packages for analysis of contaminants of concern. Elimination of the data from the review process is not allowed. All data will be qualified as necessary in accordance with established criteria. Data summary packages will consist of sample results and QC summaries, including calibration and internal standard data.

3.1.1.5 Full Data Validation

Full validation will be completed on 10 percent of the full data packages for analysis of contaminants of concern. All data will continue through the validation process and will be qualified in accordance with established criteria. Data summary packages will consist of sample results, QC

summaries, and all raw data associated with the sample results and QC summaries.

3.1.2 *Reconciliation with User Requirements*

After environmental data have been reviewed, verified, and validated in accordance with the procedures described in Section 3.1.1 and the QAPP, the data must be further evaluated to determine whether DQOs have been met.

To the extent possible, data will be evaluated according to EPA's data quality assessment (DQA) process to verify that the type, quality, and quantity of data collected are appropriate for their intended use. DQA methods and procedures are outlined in EPA's "Guidance for Data Quality Assessment, Practical Methods for Data Analysis" (EPA 2000). The DQA process includes five steps: (1) review the DQOs and sampling design; (2) conduct a preliminary data review; (3) select a statistical test; (4) verify the assumptions of the statistical test; and (5) draw conclusions from the data.

3.2 *STATISTICAL EVALUATION*

The data deemed suitable for use based on the QA/QC review will then be subjected to statistical analysis. Exploratory data analysis will include evaluation of normal probability plots and summary statistics. Normal probability plots of untransformed and log transformed data will be used to evaluate whether multiple populations or outliers are present. Distributional testing (e.g., Shapiro-Wilk test) and probability plots will be used to identify the type of data distribution for each chemical. Statistical tests for comparing data sets will be selected based on characteristics of the data sets.

The number of samples needed to adequately characterize the chemistry of background soils was calculated using existing data from the Environ study. Adequacy is defined by the capacity to achieve the confidence and power goals established in project DQOs (see Step 6 in Table 1). The analysis of the Environ data for arsenic and lead indicated that from 7 to 64 samples would be necessary to achieve initial (90% confidence, 90% power) or relaxed (90% confidence, 80% power) goals (Table 4, Figures 4 and 5). Based on this analysis, the sampling design includes three borings at a minimum of eight locations, with samples from each boring to be treated as independent samples. This provides a minimum of 24 samples for each depth interval, and minimum of 72 total samples. As discussed

below, data for different depths may be pooled if the data are statistically similar. This would create a more robust background population for use in future site-to-background statistical comparisons.

Two-sample statistical tests (e.g., t-test for parametric data or Wilcoxon Rank Sum test for nonparametric data) will be used to make various comparisons, including the following:

- Existing (i.e., 2003 Environ data) and new background data sets;
- Background data sets associated with samples collected downslope from the McCullough Range and downslope from the River Mountains;
- Background data sets associated with samples collected from 0-0.5 foot, 4 to 6 foot, and 9-11 foot bgs depth intervals.
- Site-to-background comparisons in future site investigations

For this investigation, the two-sample statistical tests will be used to evaluate whether the data being compared are from the same population. Data sets derived from the same population are statistically indistinguishable, indicating that the data sets may be pooled for use in future site-to-background comparisons. As noted in the DQO table, the null hypothesis states that data for different depth intervals are comparable (item 2 in Step 6) and that data for this investigation and the Environ study are comparable (item 3 in Step 6). If the data sets for different depths or the different studies are found to be statistically different ($p<0.05$), then the need for more than one background data set will be evaluated. If the concentrations of chemicals are found to statistically indistinguishable ($p>0.05$), the background data will be compiled as one data set. Summary statistics, probability plots, and results of distributional tests will be compiled for the pooled data or for multiple data sets, depending on the outcome of the statistical tests. Results of statistical comparison tests will also be summarized. If two or more background data sets are identified, BRC/TIMET will coordinate with NDEP on how the data will be used.

The data sets (pooled or multiple) will be assessed for possible outliers. Identified outliers will be evaluated and will be excluded from the background data set if they are found to be the result of error. As described in guidance from the U.S. Environmental Protection Agency (EPA 2000), "outliers may result from transcription errors, data-coding errors, or measurement errors..." or "may represent true extreme values of a distribution and indicate more variability in the population than was expected." No data point should ever be excluded based solely on the

results of a statistical test, and expert judgment will be used when assessing outliers.

3.3 REPORTING AND APPLICABILITY OF RESULTS

The results of the soil sampling and analysis will be summarized in a brief report that will be prepared and submitted to the NDEP. The report will include a tabulated summary of analytical data, appended laboratory reports, a QA/QC review summary, and the results of the statistical testing (including statistical plots).

Applicability and use of the background data will be addressed on a case-by-case basis in future workplans. Ideally, the background data will be used in site-to-background statistical comparisons to identify site-related metals and radionuclides as chemicals of potential concern for further investigation.

The analytical data for background samples will be used to update the Site Model for the Common Areas project (latest draft submitted as part of the *Closure Plan for the Upper and Lower Ponds and Ditches* [BRC/DBSA/ERM/MWH, October 2004]) and the conceptual site model currently being developed by TIMET for the TIMET site.

4.0 SCHEDULE

Field activities will be initiated immediately upon receipt of NDEP approval to proceed, and after obtaining authorizations to proceed by the property owners. It is anticipated that field activities can be completed within a one-week period. Assuming a 3-week period for laboratory analysis, a 10-week period for data validation, data review, statistical evaluation and report preparation, it is anticipated that the report of findings will be submitted to NDEP within 3 months of fieldwork initiation.

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MWH Americas, Inc. 2003. "Part Three of Appendix D of the Final Hydrogeologic Characterization Workplan- BMI Site – Clark County, Nevada". December.

Nevada Bureau of Mines and Geology (NBMG). 1980. "Las Vegas SE Folio Geologic Map (1977) and the Geologic Map of the Henderson Quadrangle, Nevada".

U.S. Environmental Protection Agency (EPA). 1996. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Update III." Office of Solid Waste and Emergency Response. Washington, DC. December.EPA. 1999. "National Functional Guidelines for Organic Data Review." Office of Emergency and Remedial Response. Washington, DC. EPA-540/R-99-008. October.
EPA. 2000. "Guidance for Data Quality Assessment: Practical Methods for Data Analysis". July.

EPA. 2004. "National Functional Guidelines for Inorganic Data Review." Office of Emergency and Remedial Response. Washington, DC. EPA-540/R-04-004. October.

Nevada Bureau of Mines and Geology (NBMG). 1980. "Las Vegas SE Folio Geologic Map (1977) and the Geologic Map of the Henderson Quadrangle, Nevada".

Figures

BMI COMMON AREAS

BMI INDUSTRIAL AREA

BG-08

BG-07

BG-06

BG-04

BG-05

BG-03

BG-02

BG-01

1

2

3

4

5

6

7

8

9

11

12

Proposed Background Soil Sample Location

ENVIRON Background Soil Sample Location

2,000 1,000 0 2,000 Feet

N

Nevada-Clark Co. 7.5 Minute Series (Topographic)
Henderson, Nevada SE, Boulder City NW, and Sloan NE Quadrangles

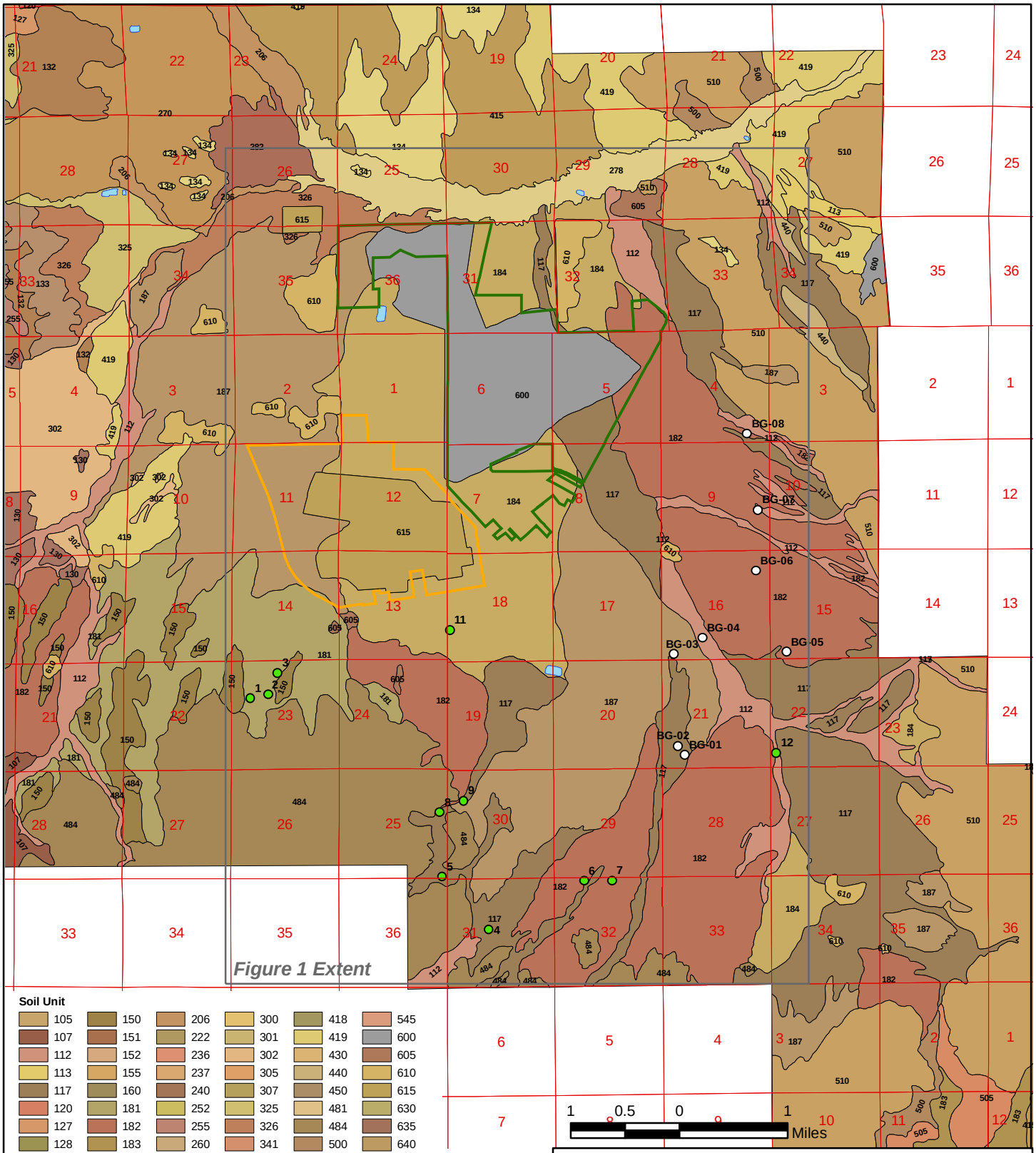
BMI Site
Henderson, Nevada

FIGURE 1

SITE LOCATION AND TOPOGRAPHIC MAP

Basic Remediation Company

Prepared by:	Date	JOB No. 1881262
MKJ MWH	04/08/05	FILE: GIS/BRC/BKGD_FIGURE1.MXD



Soil Unit

105	150	206	300	418	545
107	151	222	301	419	600
112	152	236	302	430	605
113	155	237	305	440	610
117	160	240	307	450	615
120	181	252	325	481	630
127	182	255	326	484	635
128	183	260	341	500	640
129	184	262	360	501	645
130	187	263	380	502	Water
132	190	264	390	505	Common Areas
133	191	270	400	510	Industrial Complex
134	192	278	415	540	Proposed Background Soil Sample Location
140	200	282	417	542	ENVIRON Background Soil Sample Location

Reference: Soil Survey of Las Vegas Valley Area, Nevada, Part of Clark County. U.S. Department of Agriculture, Soil Conservation Service, 1985. An evaluation was made of the soil survey in 1996. It was determined that soil delineations and map unit components were accurate. (Source: Soil Survey Geographic (SSURGO) database. U.S. Department of Agriculture, Natural Resources Conservation Service. 2004.)

BMI Site
Henderson, Nevada

FIGURE 2

N

SUMMARY OF SOIL SURVEY DATA FOR THE COMMON AREAS VICINITY

Basic Remediation COMPANY

Prepared by:	Date	
MKJ MWH	04/08/05	JOB No. 1881262 FILE: GIS/BRC/BKGD_FIGURE2.MXD

BMI COMMON AREAS

BMI INDUSTRIAL AREA

BG-01
BG-02
BG-03
BG-04
BG-05
BG-06
BG-07
BG-08

1
2
3
4
5
6
7
8
9
11
12

Soil Unit

112
117
150
181
182
184
187
484
510
605
610
615

Proposed Background Soil Sample Location

ENVIRON Background Soil Sample Location

2,000 1,000 0 2,000 Feet

N

Spring 2004 Aerials.
Note: Due to lack of availability in the Spring 2004 aerial files, some aerials are from Spring 2003.

BMI Site
Henderson, Nevada

FIGURE 3

AERIAL PHOTOGRAPH OF THE COMMON AREAS VICINITY

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 1881262
MKJ MWH	04/08/05	FILE: GIS/BRC/BKGD_FIGURE3.MXD

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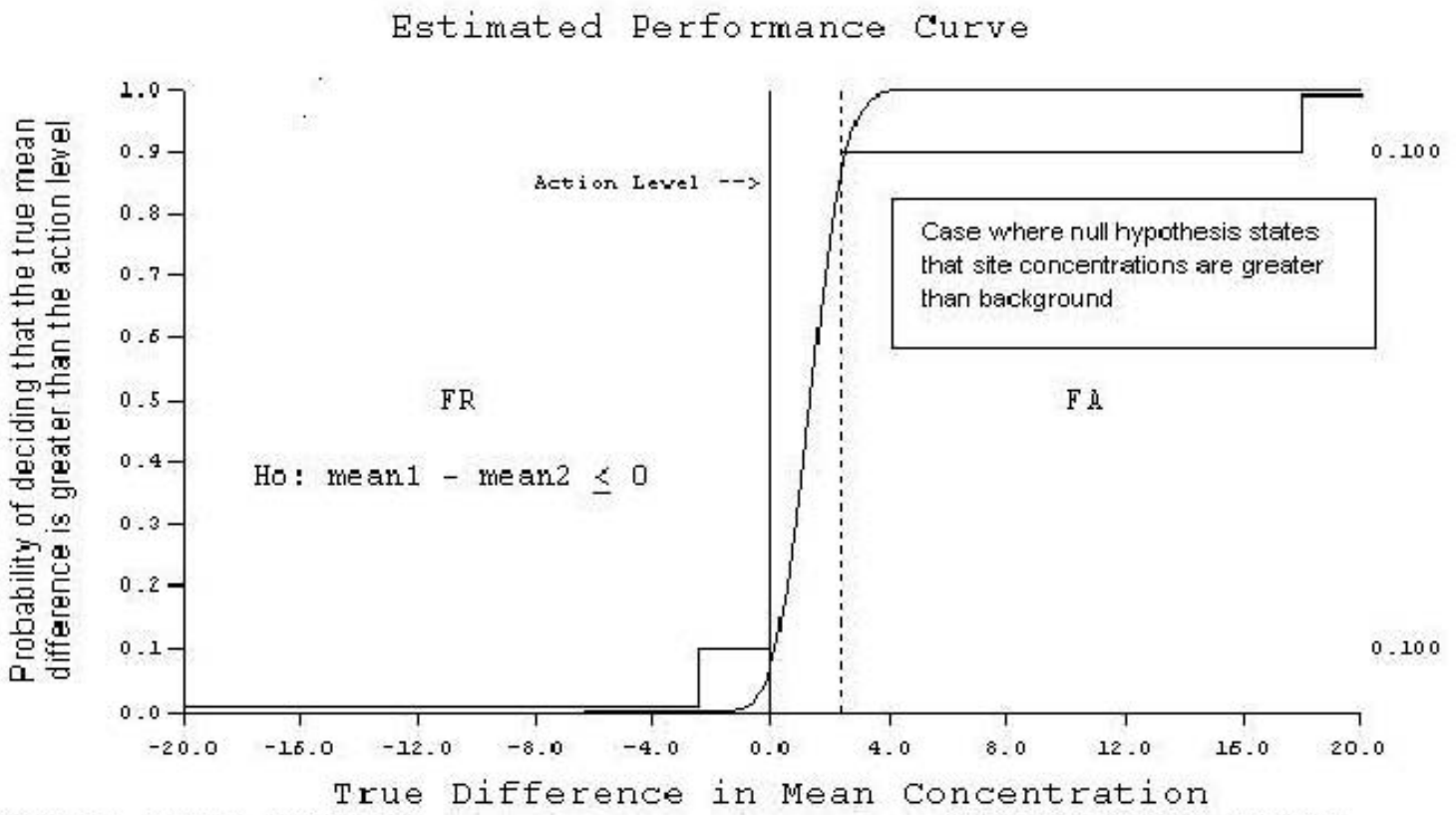


Simple Random Sampling
Action Level = 0.000

Sample Size = 67 (Note similarity to n = 64 calculated in Excel)

Case for lead in subsurface soil, 90% confidence, 90% power, 20% MDRD, and mean = 12, SD = 5.2

Decision Error Limits

concentration	prob(E)	type
-2.400	0.010	FR
0.000	0.100	FR
2.400	0.100	FA
18.000	0.010	FA

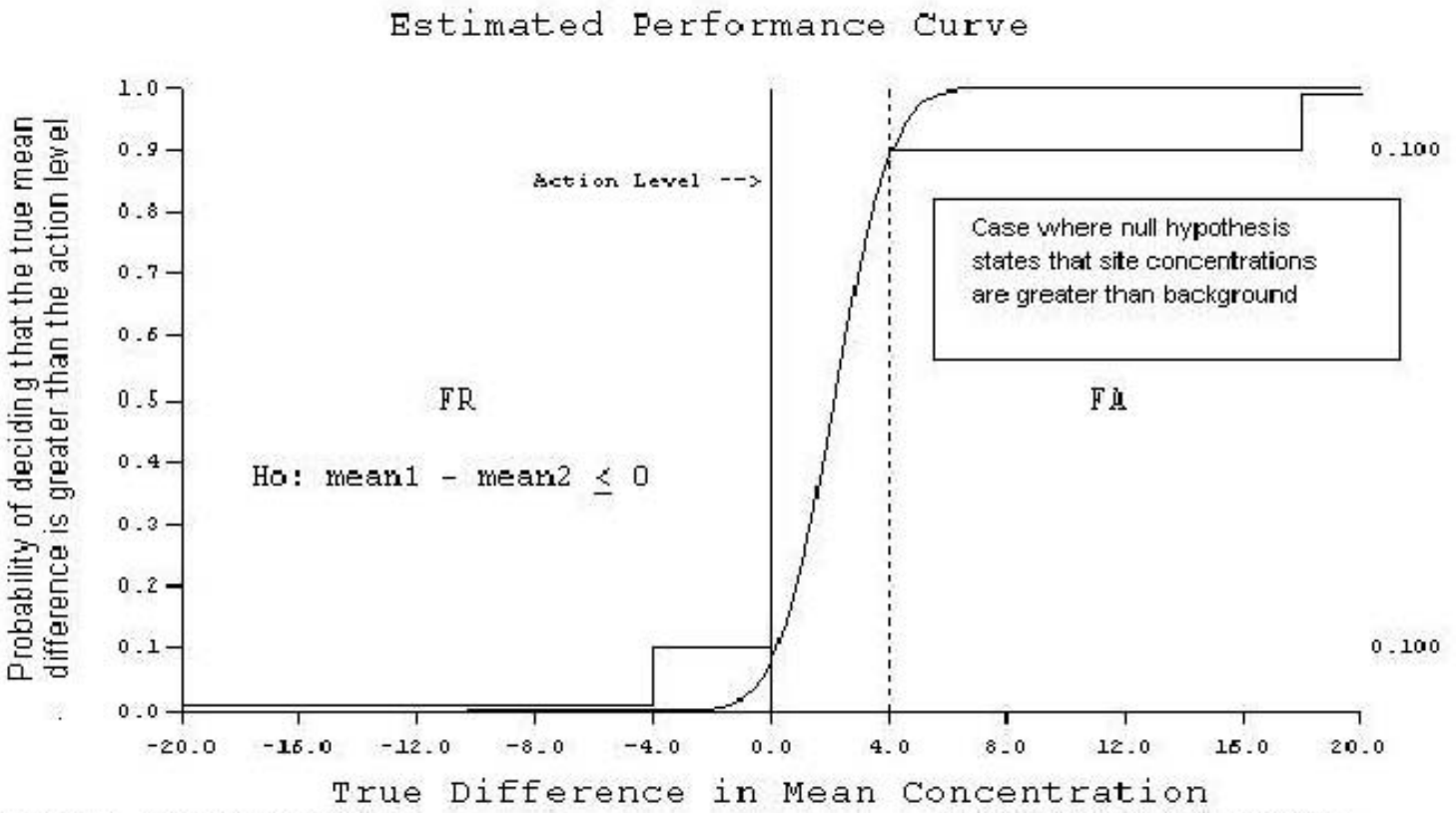
Figure 4

Estimated Performance Curve - Lead in Subsurface Soil
(90% Confidence, 90% Power, 20% MDRD, and Mean = 12, SD = 5.2)
BMI Upper and Lower Ponds and Ditches
Henderson, Nevada

KRM 0405

Reference: Power curves generated using EPA's DEFT software: "Data Quality Objectives Decision Error Feasibility Trials Software", Users Guide, and EPA/240/B-01-007, September 2001.

CAD File:	Drawn By:	Date:	Project No.
G:\\0020838\50\002083850-34.dwg	R. Olson	4/12/05	0020838.50



Simple Random Sampling
Action Level = 0.000

Sample Size = 13 (Note similarity to n = 12 calculated in Excel)

Case for lead in surface soil, 90% confidence, 90% power, 20% MDRD and mean = 20, SD = 3.6

Decision Error Limits

concentration	prob(E)	type
-4.000	0.010	FR
0.000	0.100	FR
4.000	0.100	FA
18.000	0.010	FA

Figure 5

Estimated Performance Curve - Lead in Subsurface Soil
(90% Confidence, 90% Power, 20% MDRD, and Mean = 20, SD = 3.6)
BMI Upper and Lower Ponds and Ditches
Henderson, Nevada

KRM 0405

Reference: Power curves generated using EPA's DEFT software: "Data Quality Objectives Decision Error Feasibility Trials Software", Users Guide, and EPA/240/B-01-007, September 2001.

Tables

TABLE 1
DQO STEPS FOR BACKGROUND SOIL SAMPLING

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	STEP 7
State the Problem	**Identify the Decisions**	**Identify the Inputs to the Decisions**	**Define Study Boundaries**	**Develop Decision Rules**	**Specify Tolerable Limits on Errors**	**Optimize Sampling Design**
Chemicals potentially associated with site-related activities have been found in surface and subsurface soils; however, is it not known if these chemicals are present at concentrations significantly greater than background levels. Insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed concentrations of these chemicals in background soil. Insufficient background data exist to evaluate whether concentrations of potential site-related chemicals in historical samples of background surface soil are not significantly different from historical samples of background subsurface soil. It is not known if existing background data will be comparable to newly collected data, therefore statistical comparisons of the old	(1) Are soils at the proposed background sampling locations comparable to site soils, based on characteristics such as TOC, pH, salinity, CEC, soil texture and moisture? (2) Are concentrations of site-related chemicals in the three depth intervals (0-0.5, 4-6, and 9-11 feet bgs) statistically indistinguishable? (3) Are data collected from various geologic settings (McCullough Range and River Mountains) statistically indistinguishable? (4) Are data collected from this background soils study comparable to (that is, statistically indistinguishable from)+ the background soils data provided by Environ for the City of Henderson? (5) Are concentrations of site-related chemicals in site soils statistically significantly greater than in background soils sampled for this	Validated defensible chemical data for surface soil and subsurface soil samples collected at background locations. Characterization of surface and subsurface conditions by a professional geologist. Land survey and GPS location data. Data from previous background study conducted by Environ for the City of Henderson. Historical knowledge of site-related chemicals. Soil survey of Las Vegas Valley Area by Soil Conservation Service. Geologic maps Geotechnical data for all soil samples (grain-size distribution, pH, CEC, TOC, salinity, and moisture content)	Surface soils (0 to 0.5 feet bgs) at background locations shown on Figure 2. Subsurface soils (4 to 6 and 9 to 11 feet bgs) at background locations shown on Figure 2. The lateral boundaries of the study area are shown on Figure 2 and include logistically accessible sampling sites upwind and upgradient of the site. Eleven locations were identified as suitable for sampling and as many of these sites as possible will be sampled, with a minimum of eight sites sampled. The location of sites that may be evaluated using background sampling results are the BMI Common Areas and the BMI Industrial Area as outlined on Figures 1, 2, and 3. Technical period of performance of 2 months is anticipated for completion of the field-sampling phase of	(1a) If, based on the data collected, background soil samples are comparable to site soils, and then data will be used in statistical tests comparing site and background data sets for site-related chemicals. (1b) If, based on data collected, background soil samples are not comparable to site surface and subsurface soils, then alternate background locations may be proposed. (2a) If concentrations of site-related chemicals are not statistically distinguishable, then background data for these depth intervals may be combined. (2b) If concentrations of site-related chemicals are statistically different, then background data for these depth intervals may not be combined. (3a) If data from various geologic settings are not statistically distinguishable, then background data for these settings may be combined. 3(b) If data from various geologic settings are statistically different, then background data for these settings may not be combined.	The null hypotheses for the different aspects of this study are: (1) Characteristics of background soils are comparable to site soils (this is more a qualitative to semi-quantitative assessment than rigorous statistical testing identified for items 2, 3, and 4 below) (2) Concentrations of metals and radionuclides in surface soil (0 to 0.5 feet bgs) are not statistically distinguishable from concentrations in the 4 to 6 and 9 to 11 foot intervals. (3) Concentrations of metals and radionuclides in background samples collected from the McCullough Range are comparable (that is, are not statistically distinguishable from) the samples collected from the River Range. (4) Concentrations of metals and radionuclides in background soil samples collected for this study are comparable to (that is, are not statistically distinguishable from) the background soils data collected by Environ for the City of Henderson. (5) Concentrations of metals in radionuclides in site soils are statistically significantly greater than in background soils. (This is the null hypothesis to be used in future site-to-background comparisons, because the “burden of proof” is always on the alternative hypothesis. The final composition of the	The sample size for soil determined in DQO Step 6 represents the highest level of confidence that could be achieved, and was based on the variability of existing data (Environ background data set). If the exploratory data analysis (using the data to be collected) indicates that results fall far short of reaching the stated goals for confidence and power in the statistical tests, then the need for additional data and a second phase of sampling will be evaluated. The actual power and confidence achieved must be determined after the data have been collected. These parameters will vary by analyte, and may or may not achieve the stated goals. Consensus with NDEP will be required to assess whether additional data are needed or whether the power and confidence goals can be relaxed in some cases.

TABLE 1
DQO STEPS FOR BACKGROUND SOIL SAMPLING

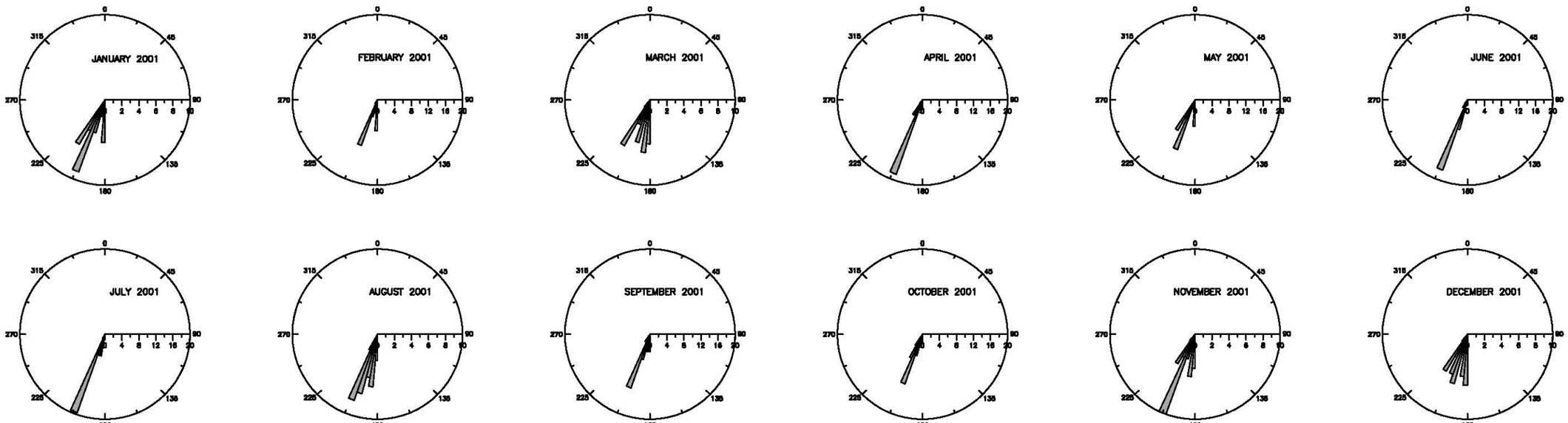
and new background data sets are required.	investigation? (This applies to future site-to-background comparisons to be conducted in upcoming site investigations)		this study	(4a) If data from this background study and the Environ background study are not statistically distinguishable, then background data for these studies may be combined. (4b) If data from this background study and the Environ background study are statistically different, then background data for these studies may not be combined. (5a) If concentrations of site-related chemicals in site soils are statistically indistinguishable from concentrations in these background soils, then eliminate these chemicals as COPCs. (5b) If concentrations of site-related chemicals in site soils are statistically significantly greater than concentrations in background soils, then retain these chemicals as COPCs.	background data set will depend on the answers to items 1-3 above.) Statistical analysis performed on existing metals for lead and arsenic in background surface soil (Environ data set) indicates that a sample size ranging from 12 to 64 (dependent on data variability) would satisfy limiting the uncertainty in the data set: 90% minimum confidence level, 90% minimum power, and 10 to 20% MDRD. (See attached table and power curves.) Relaxing goals to 90% confidence, 80% power reduces the number of samples needed (7 to 64 samples; see attached table). NOTE: These criteria are goals; the actual power and confidence will be determined using the data to be collected. Some or all of the chemicals may meet the most stringent (90% confidence and 90% power) goals.	

Notes:

bgs	Below ground surface
CEC	Cation exchange capacity
COPC	Chemical of potential concern
DQO	Data quality objective
GPS	Global positioning system
MDRD	Minimum detectable relative difference
NDEP	Nevada Department of Environmental Protection
TOC	Total organic carbon

Table 2
Wind Direction Data
BMI Common Areas and Complex Vicinity
Las Vegas/Henderson, Nevada

WIND DIRECTION PLOTS – McCarran International Airport – Weather Station #23169



WIND DIRECTION PLOTS – Basic Water and Power Company Meteorological Monitoring Station – 14th Street/Avenue L

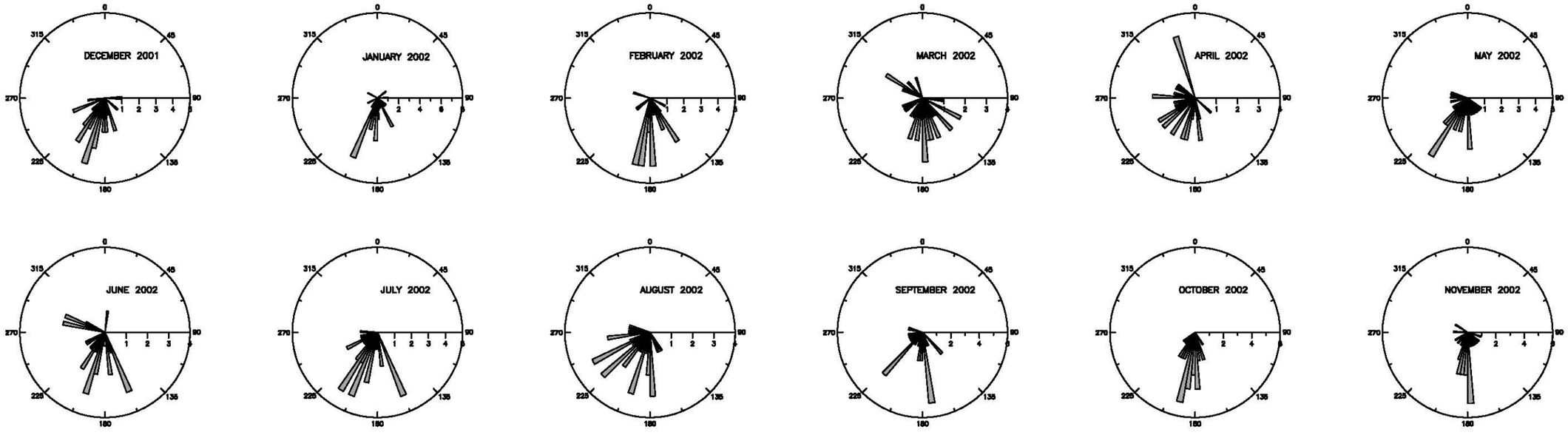


TABLE 3
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

Parameter of Interest	Analytical Method	Compound List	CAS Number	Practical Quantitation Limit	
Metals	**EPA 6020/6010B**	*Aluminum*	7429-90-5	3	mg/kg
		Antimony	7440-36-0	1	mg/kg
		Arsenic	7440-38-2	1	mg/kg
		Barium	7440-39-3	2	mg/kg
		Beryllium	7440-41-7	0.5	mg/kg
		Boron	7440-42-8	5	mg/kg
		Cadmium	7440-43-9	0.5	mg/kg
		Calcium	7440-70-2	50	mg/kg
		Chromium	7440-47-3	1	mg/kg
		Cobalt	7440-48-4	0.5	mg/kg
		Copper	7440-50-8	1	mg/kg
		Iron	7439-89-6	10	mg/kg
		Lead	7439-92-1	0.3	mg/kg
		Lithium	1313-13-9	5	mg/kg
		Magnesium	7439-95-4	50	mg/kg
		Manganese	7439-96-5	1	mg/kg
		Molybdenum	7439-98-7	1	mg/kg
		Nickel	7440-02-0	1	mg/kg
		Niobium	7440-03-1	12.5	mg/kg
		Palladium	7440-05-3	0.5	mg/kg
		Phosphorus	7723-14-0	50	mg/kg
		Platinum	7440-06-4	0.5	mg/kg
		Potassium	7440-09-7	50	mg/kg
		Selenium	7782-49-2	0.5	mg/kg
		Silicon	7440-21-3	50	mg/kg
		Silver	7440-22-4	1	mg/kg
		Sodium	7440-23-5	50	mg/kg
		Strontium	7440-24-6	1	mg/kg
		Thallium	7440-28-0	1	mg/kg
		Tin	7440-31-5	1	mg/kg
		Titanium	7440-32-6	1	mg/kg
		Tungsten	7440-33-7	2.5	mg/kg
		Uranium	7440-61-1	1	mg/kg
		Vanadium	7440-62-2	1	mg/kg
		Zinc	7440-66-6	2	mg/kg
		Zirconium	14940-68-2	10	mg/kg
	EPA 7196A	*Chromium (VI)*	18540-29-9	10	mg/kg
	EPA 7470/7471A	*Mercury*	7439-97-6	0.03	mg/kg
Radiochemicals	**EPA 900.0 or EPA 9320**	*Gross alpha*	G_Alpha	10.0	pCi/g
		Gross beta	G_Beta	10.0	pCi/g
	EPA 901.1 or HASL AM02	*Actinium-228*	14331-83-0	0.8	pCi/g
		Bismuth-212	14913-49-6	1.2	pCi/g
		Bismuth-214	14733-03-0	0.4	pCi/g
		Cobalt-57	13981-50-5	0.1	pCi/g
		Cobalt-60	10198-40-0	0.1	pCi/g
		Lead-210	14255-04-0	1.5	pCi/g
		Lead-212	15092-94-1	0.2	pCi/g
		Lead-214	15067-28-4	0.3	pCi/g
		Potassium-40	13966-00-2	1.5	pCi/g
		Radium-223	15623-45-7	1.0	pCi/g
		Radium-224	13233-32-4	1.5	pCi/g
		Thallium-208	14913-50-9	0.2	pCi/g
		Thorium-234	15065-10-8	0.2	pCi/g
	EPA 9315	*Radium-226*	13982-63-3	1.0	pCi/g
	EPA 9320	*Radium-228*	15262-20-1	1.0	pCi/g
	HASL 300 A-01R	*Thorium-228*	14274-82-9	1.0	pCi/g
		Thorium-230	14269-63-7	1.0	pCi/g
		Thorium-232	7440-29-1	1.0	pCi/g
		Uranium-233/234	13966-29-5	1.0	pCi/g
		Uranium 235/236	15117-96-1	1.0	pCi/g
		Uranium-238	7440-61-1	1.0	pCi/g

TABLE 3 (Continued)
Proposed Analytical Program
Background Soil Sampling
BMI Common Areas and Complex Vicinity

Parameter of Interest	Analytical Method	Compound List	CAS Number	Practical Quantitation Limit	
Radiochemicals (continued)	**Quantitate from Parent Radionuclide**	*Bismuth-210 (from Pb-210)*	14331-79-4	*	pCi/g
		Polonium-210 (from Pb-210)	13981-52-7	*	pCi/g
		Polonium-212 (from Bi-212, adjusted for branching ratio)	13981-52-7	*	pCi/g
		Polonium-214 (from Bi-214)	15735-67-8	*	pCi/g
		Polonium-216 (from Pb-212)	15756-58-8	*	pCi/g
		Polonium-218 (from Pb-214)	15422-74-9	*	pCi/g
		Protactinium-234 (metastable isotope; from U-238)	15100-28-4	*	pCi/g
Ions	**EPA 300.0**	*Chloride*	16887-00-6	5	mg/kg
		Fluoride	16984-48-8	1	mg/kg
		Nitrate (as N)	14797-55-8	0.25	mg/kg
		Nitrite (as N)	14797-65-0	0.25	mg/kg
		Sulfate	14808-79-8	5	mg/kg
Miscellaneous Soil Characteristics	**Lloyd Kahn Method**	*Total organic carbon (TOC)*	7440-44-0	10	mg/kg
	EPA 9045C	*pH*	NA	NA	pH units
	SM 2520B Modified	*Salinity*	NA	NA	salinity units
	EPA 9080 or 9081	*Cation Exchange Capacity*	NA	NA	meq/100g
	ASTM D422	*Soil Texture Class*	NA	NA	% of total
	ASTM D2216	*Percent Moisture*	NA	NA	%

Reporting Limits - Based on laboratory limits for primary laboratory (STL).
Laboratory limits are subject to matrix interferences and may not always be achieved in all samples.
* = Reporting limit for specific radionuclide to be set based on the performance of Cs-137 in the specific sample matrix

TABLE 4

SAMPLE-SIZE ESTIMATES FOR TWO METALS (MG/KG) IN BACKGROUND SURFACE AND SUBSURFACE SOIL
NUMBER OF SAMPLES NEEDED FOR ONE-SIDED TWO-SAMPLE T-TEST

Analyte	Depth	Mean	SD	CV	D	Taken N	[1]Needed N*	Shortfall N#	Confidence/ Power/MDRD	Performance Curve?
Lead	**Surface**	**19.2**	**3.6**	**0.189**	**1.058**	**7**	**12**	**5**	**90%,90%,20%**	**Yes**
Lead	Surface	19.2	3.6	0.189	1.058	7	8	**1**	90%,80%,20%	
Lead	Surface	19.2	3.6	0.189	1.587	7	6	no	90%,90%,30%	
Lead	Surface	19.2	3.6	0.189	1.587	7	4	no	90%,80%,30%	
Lead	**Sub**	**12.0**	**5.2**	**0.439**	**0.456**	**7**	**64**	**57**	**90%,90%,20%**	**Yes**
Lead	sub	12.0	5.2	0.439	0.456	7	44	**37**	90%,80%,20%	
Lead	sub	12.0	5.2	0.439	0.683	7	28	**21**	90%,90%,30%	
Lead	sub	12.0	5.2	0.439	0.683	7	19	**12**	90%,80%,30%	
Arsenic	Surface	3.4	0.6	0.180	1.111	15	11	no	90%,90%,20%	
Arsenic	Surface	3.4	0.6	0.180	1.111	15	7	no	90%,80%,20%	
Arsenic	Surface	3.4	0.6	0.180	1.667	15	5	no	90%,90%,30%	
Arsenic	Surface	3.4	0.6	0.180	1.667	15	3	no	90%,80%,30%	
Arsenic	sub	3.2	0.5	0.207	0.966	16	14	no	90%,90%,20%	
Arsenic	sub	3.2	0.5	0.207	0.966	16	10	no	90%,80%,20%	
Arsenic	sub	3.2	0.5	0.207	1.449	16	6	no	90%,90%,30%	
Arsenic	sub	3.2	0.5	0.207	1.449	16	4	no	90%,80%,30%	

[1]N Needed to achieve either 90% confidence/80% power or 90% confidence/90% power at 20% MDRD OR 30% MDRD
Formula: N* is calculated as = 2*((Za+Zb/D)^2) + 0.25(Za^2), where MDRD = 20 percent (i.e., 0.2), CV = standard deviation/mean, power = 90 percent (that is, Zb = 1.282), confidence = 80 percent (that is, Za = 0.842).
Formula (in Microsoft Excel) to calculate samples for 20% MDRD =(2*(((0.842 + 1.282)/D)^2) + 0.25*(0.842^2)) n-0.25(Za^2) =2*((Za+Zb/D)^2) (EPA, 2000)

D = MDRD/CV (that is, 0.20/CV for 20% MDRD or 0.30/CV for 30% MDRD)
N = total number of samples collected and analyzed for the element
N* = number of samples needed to achieve a 20% or 30% MDRD
N# is the deficient number of samples needed to achieve a 20% or 30% MDRD
Data for lead and arsenic from background soil samples collected by Environ for the City of Henderson (Environ, 2003)
See Figures 4 and 5 showing power curves for null hypothesis stating that site concentrations are greater than background.
Sub = Subsurface

APPENDIX B

Includes:

Background Soil Sampling Field Notes (Table B-1)
Soil Boring Logs

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

Site Number	Boring ID	Sample Interval	Remarks
1	A	0-0.5, 4-6, 9-11*	No remarks
	B	0-0.5, 4-6*, 9-11*	No remarks
	C	0-0.5, 4-6, 9-11*	No remarks
2	A	0-0.5, 4-6, 9-11*	No remarks
	B	0-0.5, 4-6, 9-11*	No remarks
	C	0-5, 4-6*, 9-11	No remarks
3	A	0-0.5, 3-7*, field split, 9-11	Sample collected over 3-7 foot interval as volume of soil needed for a field spilt could not be obtained from the normal 2 foot sample interval. Soil collected from 3-5 feet was put in plastic bag and placed in a cooler to preserve sample until the collection of soil over the 5-7 foot interval was complete. All soil was combined in a stainless steel bowl prior to filling jars.
	B	0-0.5, 4-6*, 9-11	No remarks
	C	0-0.5, 4-6, 9-11	No remarks
4	A	0-0.5, 4-5.5, 9-11	Sampler used could hold three 6 inch sample sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of the project as specified in the workplan. 0-0.5 foot sample collected approximately 1 foot from exact boring location. Standard shovel used for surface sample collection, stainless steel trowel was not used.
	B	0-0.5, 4-5.5, 9-10.5	Sampler used could hold three 6 inch sample sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of the project. 0-0.5 foot sample collected approximately 1 foot from exact boring location. Standard shovel used for surface sample collection, stainless steel trowel was not used.
	C	0-0.5, 4-5.5, 9-11*	Sampler used could hold three 6 inch sleeves for a total of 18 inches. Enough sample volume recovered over 1.5 feet for the required analysis. Changed to collecting samples over 2 foot interval shortly after start of project. Standard shovel used for surface sample collection, stainless steel trowel was not used.
	C1	0-0.5	No remarks.

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

Site Number	Boring ID	Sample Interval	Remarks
5	A	0-0.5**, 4-6**	Standard shovel used for surface sample collection, stainless steel trowel was not used. Refusal.
	B	0-0.5**	No remarks; refusal.
	C	0-0.5**	No remarks; refusal.
5R	A	0-0.5, 4-6, 9-11	No remarks.
	B	0-0.5, 4-6. 9-11	No remarks.
	C	0.0.5, 4-6, 9-11	One 8 oz jar short on 9-11 foot sample as completely out of plastic jars.
6	A	0-0.5, 4-6, 9-11	No remarks.
	B	0-0.5, 4-6, 9-11	Difficulties at the 4-6 foot sample interval during sample retrieval. Pulled auger back up to beginning sample depth and attempted sample collection three times before enough sample volume was recovered. All soil recovered was combined in stainless steel bowl prior to filling jars. In addition, soil recovered from the first two sample attempts was put in a plastic bag and placed in a cooler in attempt to preserve the sample for analysis. Due to length of time involved in collecting this sample, analytical results may be compromised.
	C	0-0.5, 4-6, 8-12, field split	Sample collected over 8-12 foot interval as volume of soil needed for a field spilt could not be obtained from the normal 2 foot sample interval. Soil collected from 8-10 feet was put in plastic bag and placed in a cooler to preserve sample until the collection of soil over the 10-12 foot interval was complete. All soil was combined in a stainless steel bowl prior to filling jars.
7	A	0-0.5, 4-6, 9-11	No remarks
	B	0-0.5, 4-6*, 9-11	No remarks
	C	0.0.5, 4-6, 9-11	No remarks
8	A	0-0.5, 4-6, 9-11	No remarks
	B	0-0.5, 4-6, 9-11	No remarks
	C	0.5, 4-6, 9-11	No remarks
9	A	0-0.5, 4-6, 9-11	No remarks
	B	0-0.5, 4-6, 9-11	No remarks
	C	0-0.5, field split, 4-6*, 9-11	Field split was collected at the 0-0.5 foot interval.

TABLE B-1
Basic Remediation Company and Titanium Metals Corporation
Background Soil Sampling Field Notes

Site Number	Boring ID	Sample Interval	Remarks
11	A	0-0.5, 4-6*, 9-11*	Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring from 6-11 feet. Sample depths and the amount of attempts needed to require enough sample were provided by the driller.
	B	0-0.5, 4-6*, 9-11*	Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring. Sample depths and the amount of attempts needed to require enough sample were provided by the driller.
	C	0-0.5, **field split**, 4-6, 9-11	Due to sample jar shortage, the BAI representative overseeing drilling operations had to leave site to attempt to piece together additional sample sets to complete the project. As this is the case, BAI did not observe drilling operations of this boring from 0-9 feet. Sample depths and the amount of attempts needed to require enough sample were provided by the driller. Field split noted to be collected.
12	A	0-0.5, 4-6, 9-11	No remarks
	B	0-0.5, **field split** 4-6, 9-11	Field split noted to be collected but lab data is not present. Radionuclide laboratory duplicate performed on 0-0.5 the foot sample. Field split analyzed on the report for miscellaneous soil characteristics as provided by STl Burlington. No radionuclide or metals field split data.
	C	0-0.5, 4-6, 9-11*	Laboratory duplicate for radionuclides performed on the 0-0.5 foot sample.

* Pulled auger back up to beginning sample depth and attempted sample collection again over the required two foot interval as enough sample was not collected for the required analytical analysis during the first attempt.

**First attempt to drill at this location, however due to encountering bedrock the borings could not be completed. Second attempt to drill at this location was made on 6/17/05 and was successful.

EXPLORATION LOG
BRC-BKG-1A

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N:36.022339 W:115.02693
EXPLORATION DATE: 6/16/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		GM	Pale brown, silty GRAVEL with sand, few cobbles, few boulders, dry and very dense.						
2.5			...alternating layers of sand and gravel						
5									
7.5									
10									
12.5			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No. 1

EXPLORATION LOG
BRC-BKG-2B

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N:36.02267 W:115.02344
EXPLORATION DATE: 6/16/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

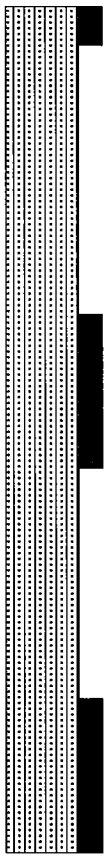
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SM	Light brown, silty SAND with gravel, dry, medium dense.						
2.5									
			...dense						
5									
7.5									
			...very dense						
10									
			END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

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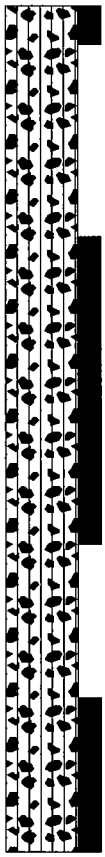
Figure No. 2

EXPLORATION LOG
BRC-BKG-3A

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N:36.02578 W:115.02200
EXPLORATION DATE: 6/16/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		GM	Pale brown, silty GRAVEL with sand, few cobbles, few boulders, dry and dense.						
2.5			...dense						
5									
7.5									
10									
12.5			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
15									
17.5									

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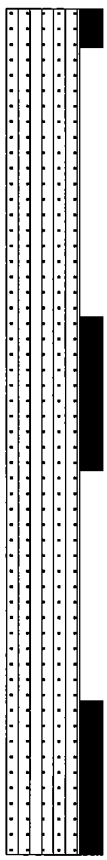
GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No. 3

EXPLORATION LOG
BRC-BKG-4A

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N:35.990318 W:114.989180
EXPLORATION DATE: 6/14/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

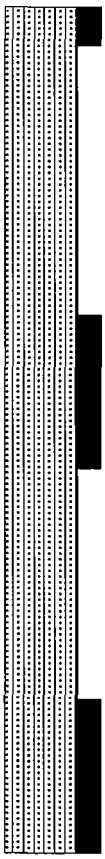
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SP-SM	Brown, poorly graded SAND with gravel, dry and loose.						
2.5			...dense						
5			...moist.						
7.5			...dark yellowish brown, very dense with trace of clay						
10			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG
BRC-BKG-6B

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 36.997757 W: 114.970978
EXPLORATION DATE: 6/15/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R. COOKE

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SM	Pale brown, silty SAND with gravel, trace cobbles, dry and medium dense.						
2.5			... dense ...very dense						
5			...moist						
7.5									
10									
12.5			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
15									
17.5									

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EXPLORATION LOG
BRC-BKG-7B

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 35.99778 W: 114.96713
EXPLORATION DATE: 6/15/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R. COOKE

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SM	Pale brown, silty SAND with gravel, few cobbles, trace boulders, dry and medium dense.						
2.5			...dense						
5			...trace of clay						
7.5			...increased gravel percentage						
10			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No. 7

EXPLORATION LOG
BRC-BKG-8

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 36.007058 W: 114.995318
EXPLORATION DATE: 6/15/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SM	Brown, silty SAND with gravel, few cobbles and boulders, dry and loose.						
2.5									
5			...moist, trace of clay, dense						
7.5									
10			...very dense						
12.5			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No. 8

EXPLORATION LOG
BRC-BKG-9

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 36.00626 W: 114.99149
EXPLORATION DATE: 6/14/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: DIEDRICH D-50 TRACK RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SM	Very pale brown, SAND with gravel, dry and loose.						
2.5									
			...medium dense, moist						
5									
7.5									
			...very dense						
10									
			END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

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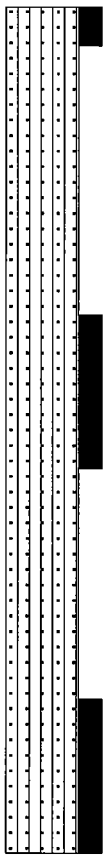
GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

Figure No. 9

EXPLORATION LOG
BRC-BKG-11A

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 36.03130 W: 114.99354
EXPLORATION DATE: 6/17/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: TRACK D-50 RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/K. DEHN

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SP-SM	Pale brown, poorly graded SAND with silt and gravel, few cobbles, trace boulderS, dry and loose.						
2.5									
			... decreasing gravel content						
5									
7.5			...on a rock						
			...drilled past rock						
10									
			END OF BORING AT 11.0 FEET NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC. **Figure No.** 10

EXPLORATION LOG
BRC-BKG-12A

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N: 36.01306 W: 114.93748
EXPLORATION DATE: 6/17/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: TRACK D-50 RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/R.WACASER

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

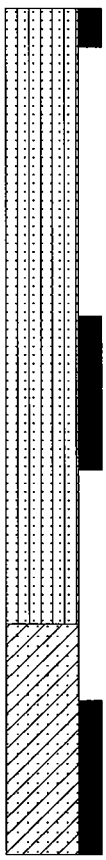
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		ML	Light brown, gravelly SILT with sand medium dense, dry.						
2.5									
5		SM	Light reddish brown, silty SAND with gravel, moist and dense.						
7.5									
10			...very dense						
12.5			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG
BRC-BKG-5R

PROJECT: BRC BACKGROUND SAMPLING
PROJECT NO.: 20051926V1
BORING LOCATION: N:35.99767 W:114.99899
EXPLORATION DATE: 6/17/05
EXPLORATION SIZE (dia.): 4 1/4" I.D. H.S. AUGERS
EQUIPMENT: TRACK D-50 RIG
ELEVATION: EXISTING GROUND SURFACE
LOGGED BY: V. CLINE/K. DEHN

INITIAL DEPTH TO WATER: NGE
DATE MEASURED: N/A
FINAL DEPTH TO WATER: NGE
DATE MEASURED: N/A

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	PI	LL	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	% SWELL	POCKET PENETROMETER (tsf)
0		SW-SM	Brown, well graded SAND with silt and gravel, few cobbles, trace boulders, dry and loose.						
2.5									
			...trace clay						
5									
7.5		SC	Reddish brown, clayey SAND with gravel, moist and very dense.						
10			**END OF BORING AT 11.0 FEET** NO GROUNDWATER ENCOUNTERED						
12.5									
15									
17.5									

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC. **Figure No.** 5

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Silty gravel
	Silty sand
	Poorly graded sand with silt
	Well graded sand with silt
	Clayey sand
	Silt
Soil Samplers	
	California sampler

Notes:

1. Exploratory borings were drilled on 6/17/05 using a 4-inch diameter continuous flight power auger.

2. No free water was encountered at the time of drilling or when re-checked the following day.

3. Boring locations were taped from existing features and elevations extrapolated from the final design schematic plan.

4. These logs are subject to the limitations, conclusions, and recommendations in this report.

5. Results of tests conducted on samples recovered are reported on the logs.

APPENDIX C

Includes on compact disk:

Soil Background Analytical Summary Data (Tables C-1 and C-2)
Validation Qualifier and Code Definitions (Table C-3)
Soil Background Geotechnical Data Summary (Table C-4)
Soil Background Analytical Database
Laboratory Analytical Data Packages

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Chloride	1.6 B J	U	b	mg/kg	16-Jun-05		0.25
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Nitrate	0.41	J	h	mg/kg	16-Jun-05		0.1
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Nitrite	0.16 B	J	h, g	mg/kg	16-Jun-05		0.061
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Sulfate	3 B	U	b	mg/kg	16-Jun-05		0.612
F5F180132001	Soil	BRC-BKG-01A-0-0.5	CEC	11.8			meq/100g	16-Jun-05		
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132001	Soil	BRC-BKG-01A-0-0.5	pH (solid)	8.6	J	h	none	16-Jun-05		
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Actinium 227 [d]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Actinium 228	2.01			pCi/g	16-Jun-05	0.75	0.37
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Bismuth 210 [e]	0.8 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Bismuth 211 [f]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Bismuth 212	0.61 U			pCi/g	16-Jun-05	0.64	0.86
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Bismuth 214	0.9			pCi/g	16-Jun-05	0.27	0.21
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Cobalt 57	-0.02 U			pCi/g	16-Jun-05	0.034	0.056
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Cobalt 60	-0.009 U			pCi/g	16-Jun-05	0.057	0.11
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lead 210	0.8 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lead 211 [g]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lead 212	1.69			pCi/g	16-Jun-05	0.3	0.22
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lead 214	0.97			pCi/g	16-Jun-05	0.23	0.17
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Polonium 210 [h]	0.8 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Polonium 212 [i]	0.39 U			pCi/g	16-Jun-05	0.41	0.55
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Polonium 214 [j]	0.9			pCi/g	16-Jun-05	0.26	0.21
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Polonium 215 [k]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Polonium 216 [l]	1.69			pCi/g	16-Jun-05	0.3	0.22
HDXGM1DD	Soil	BRC-BKG-01A-0-0.5	Polonium 218 [m]	1.58	J	n	pCi/g	16-Jun-05	0.21	0.177
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Potassium 40	24.5			pCi/g	16-Jun-05	3.7	1
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Protactinium 234	0.04 U			pCi/g	16-Jun-05	0.17	0.3
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Radium 223 [n]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Radium 224 [o]	1.69			pCi/g	16-Jun-05	0.3	0.22
HDXGM1DD	Soil	BRC-BKG-01A-0-0.5	Radium 226	1.58	J	n	pCi/g	16-Jun-05	0.21	0.177
HDXGM1DE	Soil	BRC-BKG-01A-0-0.5	Radium 228	2.05			pCi/g	16-Jun-05	0.24	0.527
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thallium 207 [p]	-0.19 U			pCi/g	16-Jun-05	0.46	0.77

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thallium 208	0.5			pCi/g	16-Jun-05	0.16	0.11
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 227	-0.19 U			pCi/g	16-Jun-05	0.46	0.77
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 228	2.09			pCi/g	16-Jun-05	0.46	0.23
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 230	1.25			pCi/g	16-Jun-05	0.32	0.08
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 231	0.011 U			pCi/g	16-Jun-05	0.058	0.11
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 232	1.78			pCi/g	16-Jun-05	0.4	0.11
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thorium 234	2.02			pCi/g	16-Jun-05	0.57	0.98
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Uranium 233/234	0.63 J	U	b	pCi/g	16-Jun-05	0.2	0.12
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Uranium 235	0.011 U			pCi/g	16-Jun-05	0.058	0.11
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Uranium 238	0.77 J	J	k	pCi/g	16-Jun-05	0.22	0.08
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Moisture (%)	1.5			percent	16-Jun-05		
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Aluminum	13900 NE	J	j	mg/kg	16-Jun-05		2
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Antimony	0.5 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Arsenic	5.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Barium	190 N			mg/kg	16-Jun-05		0.152
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Beryllium	0.78			mg/kg	16-Jun-05		0.038
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Boron	7.5	J+	b	mg/kg	16-Jun-05		3.2
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Calcium	20400 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Chromium	13.9			mg/kg	16-Jun-05		0.1841
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Cobalt	9.8			mg/kg	16-Jun-05		0.064
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Copper	23.7			mg/kg	16-Jun-05		0.2205
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Iron	15100 N			mg/kg	16-Jun-05		1.173
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lead	11.5 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Lithium	18			mg/kg	16-Jun-05		0.2425
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Magnesium	14200 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Manganese	511 N			mg/kg	16-Jun-05		0.0131
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Mercury	0.023 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Molybdenum	0.9 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Nickel	20.9			mg/kg	16-Jun-05		0.1295
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Niobium	2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Palladium	0.31			mg/kg	16-Jun-05		0.0765
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Phosphorus	1440 N			mg/kg	16-Jun-05		1.913

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Potassium	3590			mg/kg	16-Jun-05		2.079
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Selenium	0.29 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Silicon	3720 N			mg/kg	16-Jun-05		0.5289
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Sodium	159			mg/kg	16-Jun-05		7.567
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Strontium	145			mg/kg	16-Jun-05		0.0735
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Thallium	0.59 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Tin	0.78 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Titanium	681			mg/kg	16-Jun-05		0.1175
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Tungsten	1.4 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Uranium	1			mg/kg	16-Jun-05		0.038
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Vanadium	44.9 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Zinc	48			mg/kg	16-Jun-05		0.2207
F5F180132001	Soil	BRC-BKG-01A-0-0.5	Zirconium	121 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132002	Soil	BRC-BKG-01A-4-6	Chloride	71.5 J			mg/kg	16-Jun-05		0.25
F5F180132002	Soil	BRC-BKG-01A-4-6	Fluoride	1.2	U	b	mg/kg	16-Jun-05		0.051
F5F180132002	Soil	BRC-BKG-01A-4-6	Nitrate	6.7	J	h	mg/kg	16-Jun-05		0.1
F5F180132002	Soil	BRC-BKG-01A-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132002	Soil	BRC-BKG-01A-4-6	Sulfate	34.1			mg/kg	16-Jun-05		0.612
F5F180132002	Soil	BRC-BKG-01A-4-6	CEC	10.9			meq/100g	16-Jun-05		
F5F180132002	Soil	BRC-BKG-01A-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132002	Soil	BRC-BKG-01A-4-6	pH (solid)	8.9	J	h	none	16-Jun-05		
F5F180132002	Soil	BRC-BKG-01A-4-6	Actinium 227 [d]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Actinium 228	2.19			pCi/g	16-Jun-05	0.73	0.36
F5F180132002	Soil	BRC-BKG-01A-4-6	Bismuth 210 [e]	1.04 U			pCi/g	16-Jun-05	0.99	1.9
F5F180132002	Soil	BRC-BKG-01A-4-6	Bismuth 211 [f]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Bismuth 212	0.87			pCi/g	16-Jun-05	0.58	0.8
F5F180132002	Soil	BRC-BKG-01A-4-6	Bismuth 214	1.22			pCi/g	16-Jun-05	0.25	0.41
F5F180132002	Soil	BRC-BKG-01A-4-6	Cobalt 57	-0.022 U			pCi/g	16-Jun-05	0.028	0.045
F5F180132002	Soil	BRC-BKG-01A-4-6	Cobalt 60	0.05 U			pCi/g	16-Jun-05	0.055	0.12
F5F180132002	Soil	BRC-BKG-01A-4-6	Lead 210	1.04 U			pCi/g	16-Jun-05	0.996	1.9
F5F180132002	Soil	BRC-BKG-01A-4-6	Lead 211 [g]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132002	Soil	BRC-BKG-01A-4-6	Lead 212	1.58			pCi/g	16-Jun-05	0.26	0.16
F5F180132002	Soil	BRC-BKG-01A-4-6	Lead 214	1.13			pCi/g	16-Jun-05	0.24	0.16
F5F180132002	Soil	BRC-BKG-01A-4-6	Polonium 210 [h]	1.04 U			pCi/g	16-Jun-05	0.99	1.9
F5F180132002	Soil	BRC-BKG-01A-4-6	Polonium 212 [i]	0.56			pCi/g	16-Jun-05	0.37	0.51
F5F180132002	Soil	BRC-BKG-01A-4-6	Polonium 214 [j]	1.22			pCi/g	16-Jun-05	0.24	0.16
F5F180132002	Soil	BRC-BKG-01A-4-6	Polonium 215 [k]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Polonium 216 [l]	1.58			pCi/g	16-Jun-05	0.26	0.16
HDXGX1C4	Soil	BRC-BKG-01A-4-6	Polonium 218 [m]	1.32			pCi/g	16-Jun-05	0.17	0.138
F5F180132002	Soil	BRC-BKG-01A-4-6	Potassium 40	25.4			pCi/g	16-Jun-05	3.6	5.5
F5F180132002	Soil	BRC-BKG-01A-4-6	Protactinium 234	-0.17 U			pCi/g	16-Jun-05	0.15	0.24
F5F180132002	Soil	BRC-BKG-01A-4-6	Radium 223 [n]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Radium 224 [o]	1.58			pCi/g	16-Jun-05	0.26	0.16
HDXGX1C4	Soil	BRC-BKG-01A-4-6	Radium 226	1.32			pCi/g	16-Jun-05	0.17	0.138
HDXGX1C5	Soil	BRC-BKG-01A-4-6	Radium 228	2.21			pCi/g	16-Jun-05	0.25	0.585
F5F180132002	Soil	BRC-BKG-01A-4-6	Thallium 207 [p]	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Thallium 208	0.58			pCi/g	16-Jun-05	0.14	0.09
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 227	-0.29 U			pCi/g	16-Jun-05	0.43	0.72
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 228	1.83			pCi/g	16-Jun-05	0.34	0.14
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 230	1.28			pCi/g	16-Jun-05	0.27	0.1
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 231	0.12 J	U	b	pCi/g	16-Jun-05	0.1	0.05
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 232	1.43			pCi/g	16-Jun-05	0.28	0.05
F5F180132002	Soil	BRC-BKG-01A-4-6	Thorium 234	2.16			pCi/g	16-Jun-05	0.69	1.1
F5F180132002	Soil	BRC-BKG-01A-4-6	Uranium 233/234	2.44			pCi/g	16-Jun-05	0.45	0.08
F5F180132002	Soil	BRC-BKG-01A-4-6	Uranium 235	0.12 J	J	k	pCi/g	16-Jun-05	0.1	0.05
F5F180132002	Soil	BRC-BKG-01A-4-6	Uranium 238	1.43			pCi/g	16-Jun-05	0.32	0.06
F5F180132002	Soil	BRC-BKG-01A-4-6	Moisture (%)	3.1			percent	16-Jun-05		
F5F180132002	Soil	BRC-BKG-01A-4-6	Aluminum	5090 NE	J	j	mg/kg	16-Jun-05		2
F5F180132002	Soil	BRC-BKG-01A-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132002	Soil	BRC-BKG-01A-4-6	Arsenic	3.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132002	Soil	BRC-BKG-01A-4-6	Barium	111 N			mg/kg	16-Jun-05		0.152
F5F180132002	Soil	BRC-BKG-01A-4-6	Beryllium	0.38 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132002	Soil	BRC-BKG-01A-4-6	Boron	3.8 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132002	Soil	BRC-BKG-01A-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132002	Soil	BRC-BKG-01A-4-6	Calcium	27200 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132002	Soil	BRC-BKG-01A-4-6	Chromium	4.5			mg/kg	16-Jun-05		0.1841
F5F180132002	Soil	BRC-BKG-01A-4-6	Cobalt	4.8			mg/kg	16-Jun-05		0.064
F5F180132002	Soil	BRC-BKG-01A-4-6	Copper	12			mg/kg	16-Jun-05		0.2205
F5F180132002	Soil	BRC-BKG-01A-4-6	Iron	6640 N			mg/kg	16-Jun-05		1.173
F5F180132002	Soil	BRC-BKG-01A-4-6	Lead	4.9 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132002	Soil	BRC-BKG-01A-4-6	Lithium	11.5			mg/kg	16-Jun-05		0.2425
F5F180132002	Soil	BRC-BKG-01A-4-6	Magnesium	5470 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132002	Soil	BRC-BKG-01A-4-6	Manganese	183 N			mg/kg	16-Jun-05		0.0131
F5F180132002	Soil	BRC-BKG-01A-4-6	Mercury	0.01 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132002	Soil	BRC-BKG-01A-4-6	Molybdenum	0.4 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132002	Soil	BRC-BKG-01A-4-6	Nickel	9.6			mg/kg	16-Jun-05		0.1295
F5F180132002	Soil	BRC-BKG-01A-4-6	Niobium	1.2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132002	Soil	BRC-BKG-01A-4-6	Palladium	0.42			mg/kg	16-Jun-05		0.0765
F5F180132002	Soil	BRC-BKG-01A-4-6	Phosphorus	938 N			mg/kg	16-Jun-05		1.913
F5F180132002	Soil	BRC-BKG-01A-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132002	Soil	BRC-BKG-01A-4-6	Potassium	2020			mg/kg	16-Jun-05		2.079
F5F180132002	Soil	BRC-BKG-01A-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132002	Soil	BRC-BKG-01A-4-6	Silicon	640 N			mg/kg	16-Jun-05		0.5289
F5F180132002	Soil	BRC-BKG-01A-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132002	Soil	BRC-BKG-01A-4-6	Sodium	449			mg/kg	16-Jun-05		7.567
F5F180132002	Soil	BRC-BKG-01A-4-6	Strontium	209			mg/kg	16-Jun-05		0.0735
F5F180132002	Soil	BRC-BKG-01A-4-6	Thallium	0.32 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132002	Soil	BRC-BKG-01A-4-6	Tin	0.32 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132002	Soil	BRC-BKG-01A-4-6	Titanium	376			mg/kg	16-Jun-05		0.1175
F5F180132002	Soil	BRC-BKG-01A-4-6	Tungsten	1.1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132002	Soil	BRC-BKG-01A-4-6	Uranium	0.86 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132002	Soil	BRC-BKG-01A-4-6	Vanadium	25.5 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132002	Soil	BRC-BKG-01A-4-6	Zinc	20.7			mg/kg	16-Jun-05		0.2207
F5F180132002	Soil	BRC-BKG-01A-4-6	Zirconium	105 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132003	Soil	BRC-BKG-01A-9-11	Chloride	426 J			mg/kg	16-Jun-05		0.25
F5F180132003	Soil	BRC-BKG-01A-9-11	Fluoride	0.72 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132003	Soil	BRC-BKG-01A-9-11	Nitrate	3.8	J	h	mg/kg	16-Jun-05		0.1

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132003	Soil	BRC-BKG-01A-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132003	Soil	BRC-BKG-01A-9-11	Sulfate	1430			mg/kg	16-Jun-05		0.612
F5F180132003	Soil	BRC-BKG-01A-9-11	CEC	9.5			meq/100g	16-Jun-05		
F5F180132003	Soil	BRC-BKG-01A-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132003	Soil	BRC-BKG-01A-9-11	pH (solid)	8.3	J	h	none	16-Jun-05		
F5F180132003	Soil	BRC-BKG-01A-9-11	Actinium 227 [d]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Actinium 228	1.74			pCi/g	16-Jun-05	0.66	0.39
F5F180132003	Soil	BRC-BKG-01A-9-11	Bismuth 210 [e]	0.7 U			pCi/g	16-Jun-05	1.4	2.6
F5F180132003	Soil	BRC-BKG-01A-9-11	Bismuth 211 [f]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Bismuth 212	0.74 U			pCi/g	16-Jun-05	0.57	0.86
F5F180132003	Soil	BRC-BKG-01A-9-11	Bismuth 214	1.03			pCi/g	16-Jun-05	0.26	0.19
F5F180132003	Soil	BRC-BKG-01A-9-11	Cobalt 57	0.021 U			pCi/g	16-Jun-05	0.034	0.061
F5F180132003	Soil	BRC-BKG-01A-9-11	Cobalt 60	0.037 U			pCi/g	16-Jun-05	0.058	0.13
F5F180132003	Soil	BRC-BKG-01A-9-11	Lead 210	0.7 U			pCi/g	16-Jun-05	1.4	2.6
F5F180132003	Soil	BRC-BKG-01A-9-11	Lead 211 [g]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Lead 212	1.58			pCi/g	16-Jun-05	0.28	0.19
F5F180132003	Soil	BRC-BKG-01A-9-11	Lead 214	1.25			pCi/g	16-Jun-05	0.26	0.18
F5F180132003	Soil	BRC-BKG-01A-9-11	Polonium 210 [h]	0.7 U			pCi/g	16-Jun-05	1.4	2.6
F5F180132003	Soil	BRC-BKG-01A-9-11	Polonium 212 [i]	0.47 U			pCi/g	16-Jun-05	0.37	0.55
F5F180132003	Soil	BRC-BKG-01A-9-11	Polonium 214 [j]	1.03			pCi/g	16-Jun-05	0.26	0.19
F5F180132003	Soil	BRC-BKG-01A-9-11	Polonium 215 [k]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Polonium 216 [l]	1.58			pCi/g	16-Jun-05	0.28	0.19
HDXG11C4	Soil	BRC-BKG-01A-9-11	Polonium 218 [m]	1.5			pCi/g	16-Jun-05	0.18	0.173
F5F180132003	Soil	BRC-BKG-01A-9-11	Potassium 40	24.7			pCi/g	16-Jun-05	3.7	0.5
F5F180132003	Soil	BRC-BKG-01A-9-11	Protactinium 234	-0.03 U			pCi/g	16-Jun-05	0.17	0.29
F5F180132003	Soil	BRC-BKG-01A-9-11	Radium 223 [n]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Radium 224 [o]	1.58			pCi/g	16-Jun-05	0.28	0.19
HDXG11C4	Soil	BRC-BKG-01A-9-11	Radium 226	1.5			pCi/g	16-Jun-05	0.18	0.173
HDXG11C5	Soil	BRC-BKG-01A-9-11	Radium 228	1.67 J	J	k	pCi/g	16-Jun-05	0.21	0.533
F5F180132003	Soil	BRC-BKG-01A-9-11	Thallium 207 [p]	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Thallium 208	0.42			pCi/g	16-Jun-05	0.15	0.1
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 227	-0.41 U			pCi/g	16-Jun-05	0.45	0.72
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 228	1.5			pCi/g	16-Jun-05	0.3	0.13

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 230	1.55			pCi/g	16-Jun-05	0.3	0.06
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 231	0.043 J	U	b	pCi/g	16-Jun-05	0.058	0.039
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 232	1.46			pCi/g	16-Jun-05	0.29	0.05
F5F180132003	Soil	BRC-BKG-01A-9-11	Thorium 234	1.35			pCi/g	16-Jun-05	0.73	1.3
F5F180132003	Soil	BRC-BKG-01A-9-11	Uranium 233/234	1.73			pCi/g	16-Jun-05	0.33	0.08
F5F180132003	Soil	BRC-BKG-01A-9-11	Uranium 235	0.043 J	J	k	pCi/g	16-Jun-05	0.058	0.039
F5F180132003	Soil	BRC-BKG-01A-9-11	Uranium 238	1.38			pCi/g	16-Jun-05	0.29	0.07
F5F180132003	Soil	BRC-BKG-01A-9-11	Moisture (%)	2.1			percent	16-Jun-05		
F5F180132003	Soil	BRC-BKG-01A-9-11	Aluminum	5570 NE	J	j	mg/kg	16-Jun-05		2
F5F180132003	Soil	BRC-BKG-01A-9-11	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132003	Soil	BRC-BKG-01A-9-11	Arsenic	5.1 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132003	Soil	BRC-BKG-01A-9-11	Barium	147 N			mg/kg	16-Jun-05		0.152
F5F180132003	Soil	BRC-BKG-01A-9-11	Beryllium	0.37 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132003	Soil	BRC-BKG-01A-9-11	Boron	7.1	J+	b	mg/kg	16-Jun-05		3.2
F5F180132003	Soil	BRC-BKG-01A-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132003	Soil	BRC-BKG-01A-9-11	Calcium	47300 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132003	Soil	BRC-BKG-01A-9-11	Chromium	5.4			mg/kg	16-Jun-05		0.1841
F5F180132003	Soil	BRC-BKG-01A-9-11	Cobalt	6.7			mg/kg	16-Jun-05		0.064
F5F180132003	Soil	BRC-BKG-01A-9-11	Copper	17.9			mg/kg	16-Jun-05		0.2205
F5F180132003	Soil	BRC-BKG-01A-9-11	Iron	6870 N			mg/kg	16-Jun-05		1.173
F5F180132003	Soil	BRC-BKG-01A-9-11	Lead	4.5 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132003	Soil	BRC-BKG-01A-9-11	Lithium	14			mg/kg	16-Jun-05		0.2425
F5F180132003	Soil	BRC-BKG-01A-9-11	Magnesium	8910 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132003	Soil	BRC-BKG-01A-9-11	Manganese	339 N			mg/kg	16-Jun-05		0.0131
F5F180132003	Soil	BRC-BKG-01A-9-11	Mercury	0.0092 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132003	Soil	BRC-BKG-01A-9-11	Molybdenum	1.9			mg/kg	16-Jun-05		0.241
F5F180132003	Soil	BRC-BKG-01A-9-11	Nickel	11.3			mg/kg	16-Jun-05		0.1295
F5F180132003	Soil	BRC-BKG-01A-9-11	Niobium	1.3 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132003	Soil	BRC-BKG-01A-9-11	Palladium	0.8			mg/kg	16-Jun-05		0.0765
F5F180132003	Soil	BRC-BKG-01A-9-11	Phosphorus	1120 N			mg/kg	16-Jun-05		1.913
F5F180132003	Soil	BRC-BKG-01A-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132003	Soil	BRC-BKG-01A-9-11	Potassium	2250			mg/kg	16-Jun-05		2.079
F5F180132003	Soil	BRC-BKG-01A-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132003	Soil	BRC-BKG-01A-9-11	Silicon	1300 N			mg/kg	16-Jun-05		0.5289
F5F180132003	Soil	BRC-BKG-01A-9-11	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132003	Soil	BRC-BKG-01A-9-11	Sodium	797			mg/kg	16-Jun-05		7.567
F5F180132003	Soil	BRC-BKG-01A-9-11	Strontium	488			mg/kg	16-Jun-05		0.0735
F5F180132003	Soil	BRC-BKG-01A-9-11	Thallium	0.44 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132003	Soil	BRC-BKG-01A-9-11	Tin	0.41 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132003	Soil	BRC-BKG-01A-9-11	Titanium	490			mg/kg	16-Jun-05		0.1175
F5F180132003	Soil	BRC-BKG-01A-9-11	Tungsten	1.8 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132003	Soil	BRC-BKG-01A-9-11	Uranium	1.3			mg/kg	16-Jun-05		0.038
F5F180132003	Soil	BRC-BKG-01A-9-11	Vanadium	30.5 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132003	Soil	BRC-BKG-01A-9-11	Zinc	19.7			mg/kg	16-Jun-05		0.2207
F5F180132003	Soil	BRC-BKG-01A-9-11	Zirconium	106 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Chloride	4.1 J			mg/kg	16-Jun-05		0.25
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Fluoride	0.36 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Nitrate	U	UJ	h	mg/kg	16-Jun-05		0.1
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Sulfate	10.5			mg/kg	16-Jun-05		0.612
F5F180132004	Soil	BRC-BKG-01B-0-0.5	CEC	11.9			meq/100g	16-Jun-05		
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132004	Soil	BRC-BKG-01B-0-0.5	pH (solid)	8.6	J	h	none	16-Jun-05		
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Actinium 227 [d]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Actinium 228	2.53			pCi/g	16-Jun-05	0.83	0.44
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Bismuth 210 [e]	1.6 U			pCi/g	16-Jun-05	1.4	2.6
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Bismuth 211 [f]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Bismuth 212	1.05 U			pCi/g	16-Jun-05	0.54	1.1
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Bismuth 214	1.21			pCi/g	16-Jun-05	0.26	0.18
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Cobalt 57	0.009 U			pCi/g	16-Jun-05	0.03	0.052
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Cobalt 60	0.024 U			pCi/g	16-Jun-05	0.061	0.12
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lead 210	1.6 U			pCi/g	16-Jun-05	1.4	2.6
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lead 211 [g]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lead 212	1.93			pCi/g	16-Jun-05	0.28	0.15
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lead 214	1.05			pCi/g	16-Jun-05	0.24	0.16
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Polonium 210 [h]	1.6 U			pCi/g	16-Jun-05	1.4	2.6

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Polonium 212 [i]	0.67 U			pCi/g	16-Jun-05	0.35	0.7
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Polonium 214 [j]	1.21			pCi/g	16-Jun-05	0.26	0.18
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Polonium 215 [k]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Polonium 216 [l]	1.93			pCi/g	16-Jun-05	0.28	0.15
HDXG71DF	Soil	BRC-BKG-01B-0-0.5	Polonium 218 [m]	0.968 J	J	k	pCi/g	16-Jun-05	0.12	0.11
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Potassium 40	23.3			pCi/g	16-Jun-05	3.8	1.1
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Protactinium 234	-0.09 U			pCi/g	16-Jun-05	0.17	0.28
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Radium 223 [n]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Radium 224 [o]	1.93			pCi/g	16-Jun-05	0.28	0.15
HDXG71DF	Soil	BRC-BKG-01B-0-0.5	Radium 226	0.968 J	J	k	pCi/g	16-Jun-05	0.12	0.11
HDXG71DG	Soil	BRC-BKG-01B-0-0.5	Radium 228	1.28 J	J	k	pCi/g	16-Jun-05	0.19	0.548
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thallium 207 [p]	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thallium 208	0.66			pCi/g	16-Jun-05	0.16	0.1
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 227	0.1 U			pCi/g	16-Jun-05	0.48	0.85
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 228	1.67			pCi/g	16-Jun-05	0.33	0.14
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 230	1.42			pCi/g	16-Jun-05	0.29	0.07
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 231	0.042 J	U	b	pCi/g	16-Jun-05	0.056	0.037
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 232	1.94			pCi/g	16-Jun-05	0.35	0.07
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thorium 234	1.64			pCi/g	16-Jun-05	0.55	1
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Uranium 233/234	0.72 J	U	b	pCi/g	16-Jun-05	0.19	0.05
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Uranium 235	0.042 J	J	k	pCi/g	16-Jun-05	0.056	0.037
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Uranium 238	0.78 J	J	k	pCi/g	16-Jun-05	0.2	0.05
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Moisture (%)	0.66			percent	16-Jun-05		
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Aluminum	11400 NE	J	j	mg/kg	16-Jun-05		2
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Antimony	0.46 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Arsenic	5.3 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Barium	181 N			mg/kg	16-Jun-05		0.152
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Beryllium	0.73			mg/kg	16-Jun-05		0.038
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Boron	6	J+	b	mg/kg	16-Jun-05		3.2
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Calcium	24600 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Chromium	13.5			mg/kg	16-Jun-05		0.1841
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Cobalt	8.2			mg/kg	16-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Copper	18.2			mg/kg	16-Jun-05		0.2205
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Iron	14400 N			mg/kg	16-Jun-05		1.173
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lead	11.8 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Lithium	17.5			mg/kg	16-Jun-05		0.2425
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Magnesium	12700 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Manganese	409 N			mg/kg	16-Jun-05		0.0131
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Mercury	0.033 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Molybdenum	0.75 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Nickel	17.5			mg/kg	16-Jun-05		0.1295
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Niobium	1.3 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Palladium	0.23			mg/kg	16-Jun-05		0.0765
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Phosphorus	1250 N			mg/kg	16-Jun-05		1.913
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Potassium	3250			mg/kg	16-Jun-05		2.079
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Selenium	0.27 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Silicon	2790 N			mg/kg	16-Jun-05		0.5289
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Sodium	146			mg/kg	16-Jun-05		7.567
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Strontium	118			mg/kg	16-Jun-05		0.0735
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Thallium	0.6 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Tin	0.66 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Titanium	571			mg/kg	16-Jun-05		0.1175
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Tungsten	0.97 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Uranium	0.85 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Vanadium	34.1 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Zinc	48.5			mg/kg	16-Jun-05		0.2207
F5F180132004	Soil	BRC-BKG-01B-0-0.5	Zirconium	112 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132005	Soil	BRC-BKG-01B-4-6	Chloride	215 J			mg/kg	16-Jun-05		0.25
F5F180132005	Soil	BRC-BKG-01B-4-6	Fluoride	0.6 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132005	Soil	BRC-BKG-01B-4-6	Nitrate	2.8	J	h	mg/kg	16-Jun-05		0.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132005	Soil	BRC-BKG-01B-4-6	Sulfate	42.8			mg/kg	16-Jun-05		0.612
F5F180132005	Soil	BRC-BKG-01B-4-6	CEC	9.8			meq/100g	16-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132005	Soil	BRC-BKG-01B-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132005	Soil	BRC-BKG-01B-4-6	pH (solid)	8.6	J	h	none	16-Jun-05		
F5F180132005	Soil	BRC-BKG-01B-4-6	Actinium 227 [d]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Actinium 228	1.96			pCi/g	16-Jun-05	0.72	0.46
F5F180132005	Soil	BRC-BKG-01B-4-6	Bismuth 210 [e]	1.2 U			pCi/g	16-Jun-05	1.3	2.5
F5F180132005	Soil	BRC-BKG-01B-4-6	Bismuth 211 [f]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Bismuth 212	0.82 U			pCi/g	16-Jun-05	0.55	1.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Bismuth 214	1.14			pCi/g	16-Jun-05	0.26	0.2
F5F180132005	Soil	BRC-BKG-01B-4-6	Cobalt 57	0.022 U			pCi/g	16-Jun-05	0.034	0.062
F5F180132005	Soil	BRC-BKG-01B-4-6	Cobalt 60	-0.033 U			pCi/g	16-Jun-05	0.06	0.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Lead 210	1.2 U			pCi/g	16-Jun-05	1.3	2.5
F5F180132005	Soil	BRC-BKG-01B-4-6	Lead 211 [g]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Lead 212	1.71			pCi/g	16-Jun-05	0.26	0.13
F5F180132005	Soil	BRC-BKG-01B-4-6	Lead 214	1.03			pCi/g	16-Jun-05	0.24	0.18
F5F180132005	Soil	BRC-BKG-01B-4-6	Polonium 210 [h]	1.2 U			pCi/g	16-Jun-05	1.3	2.5
F5F180132005	Soil	BRC-BKG-01B-4-6	Polonium 212 [i]	0.53 U			pCi/g	16-Jun-05	0.35	0.71
F5F180132005	Soil	BRC-BKG-01B-4-6	Polonium 214 [j]	1.14			pCi/g	16-Jun-05	0.26	0.2
F5F180132005	Soil	BRC-BKG-01B-4-6	Polonium 215 [k]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Polonium 216 [l]	1.71			pCi/g	16-Jun-05	0.26	0.13
HDXG81C4	Soil	BRC-BKG-01B-4-6	Polonium 218 [m]	1.15	J	n	pCi/g	16-Jun-05	0.15	0.154
F5F180132005	Soil	BRC-BKG-01B-4-6	Potassium 40	30.5			pCi/g	16-Jun-05	4.3	1.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Protactinium 234	0.006 U			pCi/g	16-Jun-05	0.18	0.31
F5F180132005	Soil	BRC-BKG-01B-4-6	Radium 223 [n]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Radium 224 [o]	1.71			pCi/g	16-Jun-05	0.26	0.13
HDXG81C4	Soil	BRC-BKG-01B-4-6	Radium 226	1.15	J	n	pCi/g	16-Jun-05	0.15	0.154
HDXG81C5	Soil	BRC-BKG-01B-4-6	Radium 228	1.83 J	J	k	pCi/g	16-Jun-05	0.23	0.583
F5F180132005	Soil	BRC-BKG-01B-4-6	Thallium 207 [p]	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Thallium 208	0.64			pCi/g	16-Jun-05	0.15	0.11
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 227	-0.003 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 228	1.91			pCi/g	16-Jun-05	0.35	0.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 230	1.2			pCi/g	16-Jun-05	0.26	0.05
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 231	0.04 U			pCi/g	16-Jun-05	0.068	0.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 232	1.63			pCi/g	16-Jun-05	0.32	0.07

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132005	Soil	BRC-BKG-01B-4-6	Thorium 234	2			pCi/g	16-Jun-05	1	1.3
F5F180132005	Soil	BRC-BKG-01B-4-6	Uranium 233/234	1.73			pCi/g	16-Jun-05	0.34	0.11
F5F180132005	Soil	BRC-BKG-01B-4-6	Uranium 235	0.04 U			pCi/g	16-Jun-05	0.068	0.1
F5F180132005	Soil	BRC-BKG-01B-4-6	Uranium 238	1.56			pCi/g	16-Jun-05	0.31	0.08
F5F180132005	Soil	BRC-BKG-01B-4-6	Moisture (%)	2.8			percent	16-Jun-05		
F5F180132005	Soil	BRC-BKG-01B-4-6	Aluminum	6670 NE	J	j	mg/kg	16-Jun-05		2
F5F180132005	Soil	BRC-BKG-01B-4-6	Antimony	0.14 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132005	Soil	BRC-BKG-01B-4-6	Arsenic	4.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132005	Soil	BRC-BKG-01B-4-6	Barium	187 N			mg/kg	16-Jun-05		0.152
F5F180132005	Soil	BRC-BKG-01B-4-6	Beryllium	0.48 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132005	Soil	BRC-BKG-01B-4-6	Boron	5.9	J+	b	mg/kg	16-Jun-05		3.2
F5F180132005	Soil	BRC-BKG-01B-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132005	Soil	BRC-BKG-01B-4-6	Calcium	29600 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132005	Soil	BRC-BKG-01B-4-6	Chromium	5.9			mg/kg	16-Jun-05		0.1841
F5F180132005	Soil	BRC-BKG-01B-4-6	Cobalt	6.2			mg/kg	16-Jun-05		0.064
F5F180132005	Soil	BRC-BKG-01B-4-6	Copper	14.7			mg/kg	16-Jun-05		0.2205
F5F180132005	Soil	BRC-BKG-01B-4-6	Iron	8260 N			mg/kg	16-Jun-05		1.173
F5F180132005	Soil	BRC-BKG-01B-4-6	Lead	6.2 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132005	Soil	BRC-BKG-01B-4-6	Lithium	12.7			mg/kg	16-Jun-05		0.2425
F5F180132005	Soil	BRC-BKG-01B-4-6	Magnesium	6370 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132005	Soil	BRC-BKG-01B-4-6	Manganese	270 N			mg/kg	16-Jun-05		0.0131
F5F180132005	Soil	BRC-BKG-01B-4-6	Mercury	0.015 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132005	Soil	BRC-BKG-01B-4-6	Molybdenum	0.64 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132005	Soil	BRC-BKG-01B-4-6	Nickel	11.4			mg/kg	16-Jun-05		0.1295
F5F180132005	Soil	BRC-BKG-01B-4-6	Niobium	1.5 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132005	Soil	BRC-BKG-01B-4-6	Palladium	0.55			mg/kg	16-Jun-05		0.0765
F5F180132005	Soil	BRC-BKG-01B-4-6	Phosphorus	1020 N			mg/kg	16-Jun-05		1.913
F5F180132005	Soil	BRC-BKG-01B-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132005	Soil	BRC-BKG-01B-4-6	Potassium	2370			mg/kg	16-Jun-05		2.079
F5F180132005	Soil	BRC-BKG-01B-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132005	Soil	BRC-BKG-01B-4-6	Silicon	846 N			mg/kg	16-Jun-05		0.5289
F5F180132005	Soil	BRC-BKG-01B-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132005	Soil	BRC-BKG-01B-4-6	Sodium	745			mg/kg	16-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132005	Soil	BRC-BKG-01B-4-6	Strontium	258			mg/kg	16-Jun-05		0.0735
F5F180132005	Soil	BRC-BKG-01B-4-6	Thallium	0.29 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132005	Soil	BRC-BKG-01B-4-6	Tin	0.45 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132005	Soil	BRC-BKG-01B-4-6	Titanium	570			mg/kg	16-Jun-05		0.1175
F5F180132005	Soil	BRC-BKG-01B-4-6	Tungsten	1.3 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132005	Soil	BRC-BKG-01B-4-6	Uranium	1.1			mg/kg	16-Jun-05		0.038
F5F180132005	Soil	BRC-BKG-01B-4-6	Vanadium	33.5 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132005	Soil	BRC-BKG-01B-4-6	Zinc	25.4			mg/kg	16-Jun-05		0.2207
F5F180132005	Soil	BRC-BKG-01B-4-6	Zirconium	117 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F210233007	Soil	BRC-BKG-01B-9-11	Chloride	34.1			mg/kg	17-Jun-05		0.25
F5F210233007	Soil	BRC-BKG-01B-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233007	Soil	BRC-BKG-01B-9-11	Nitrate	0.58	J	h	mg/kg	17-Jun-05		0.1
F5F210233007	Soil	BRC-BKG-01B-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233007	Soil	BRC-BKG-01B-9-11	Sulfate	208			mg/kg	17-Jun-05		0.612
F5F210233007	Soil	BRC-BKG-01B-9-11	CEC	10.2			meq/100g	17-Jun-05		
F5F210233007	Soil	BRC-BKG-01B-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233007	Soil	BRC-BKG-01B-9-11	pH (solid)	8	J	h	none	17-Jun-05		
F5F210233007	Soil	BRC-BKG-01B-9-11	Actinium 227 [d]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Actinium 228	2.05			pCi/g	17-Jun-05	0.71	0.38
F5F210233007	Soil	BRC-BKG-01B-9-11	Bismuth 210 [e]	0.5 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233007	Soil	BRC-BKG-01B-9-11	Bismuth 211 [f]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Bismuth 212	1.22			pCi/g	17-Jun-05	0.57	0.81
F5F210233007	Soil	BRC-BKG-01B-9-11	Bismuth 214	1.32			pCi/g	17-Jun-05	0.29	0.47
F5F210233007	Soil	BRC-BKG-01B-9-11	Cobalt 57	0.027 U			pCi/g	17-Jun-05	0.031	0.056
F5F210233007	Soil	BRC-BKG-01B-9-11	Cobalt 60	0.028 U			pCi/g	17-Jun-05	0.064	0.13
F5F210233007	Soil	BRC-BKG-01B-9-11	Lead 210	0.5 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233007	Soil	BRC-BKG-01B-9-11	Lead 211 [g]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Lead 212	1.88			pCi/g	17-Jun-05	0.28	0.14
F5F210233007	Soil	BRC-BKG-01B-9-11	Lead 214	1.68			pCi/g	17-Jun-05	0.3	0.13
F5F210233007	Soil	BRC-BKG-01B-9-11	Polonium 210 [h]	0.5 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233007	Soil	BRC-BKG-01B-9-11	Polonium 212 [i]	0.78			pCi/g	17-Jun-05	0.36	0.52
F5F210233007	Soil	BRC-BKG-01B-9-11	Polonium 214 [j]	1.32			pCi/g	17-Jun-05	0.29	0.19
F5F210233007	Soil	BRC-BKG-01B-9-11	Polonium 215 [k]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233007	Soil	BRC-BKG-01B-9-11	Polonium 216 [l]	1.88			pCi/g	17-Jun-05	0.28	0.14
HD3CJ1C4	Soil	BRC-BKG-01B-9-11	Polonium 218 [m]	2.1	J	n	pCi/g	17-Jun-05	0.26	0.227
F5F210233007	Soil	BRC-BKG-01B-9-11	Potassium 40	25.8			pCi/g	17-Jun-05	3.8	1.1
F5F210233007	Soil	BRC-BKG-01B-9-11	Protactinium 234	0.13 U			pCi/g	17-Jun-05	0.17	0.27
F5F210233007	Soil	BRC-BKG-01B-9-11	Radium 223 [n]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Radium 224 [o]	1.88			pCi/g	17-Jun-05	0.28	0.14
HD3CJ1C4	Soil	BRC-BKG-01B-9-11	Radium 226	2.1	J	n	pCi/g	17-Jun-05	0.26	0.227
HD3CJ1C5	Soil	BRC-BKG-01B-9-11	Radium 228	2.19	R	e	pCi/g	17-Jun-05	0.25	0.511
F5F210233007	Soil	BRC-BKG-01B-9-11	Thallium 207 [p]	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Thallium 208	0.68			pCi/g	17-Jun-05	0.15	0.09
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 227	-0.36 U			pCi/g	17-Jun-05	0.46	0.78
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 228	1.38			pCi/g	17-Jun-05	0.28	0.09
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 230	1.65			pCi/g	17-Jun-05	0.3	0.05
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 231	0.06 U			pCi/g	17-Jun-05	0.073	0.092
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 232	1.52			pCi/g	17-Jun-05	0.29	0.06
F5F210233007	Soil	BRC-BKG-01B-9-11	Thorium 234	1.79			pCi/g	17-Jun-05	0.56	1
F5F210233007	Soil	BRC-BKG-01B-9-11	Uranium 233/234	1.95			pCi/g	17-Jun-05	0.36	0.07
F5F210233007	Soil	BRC-BKG-01B-9-11	Uranium 235	0.06 U			pCi/g	17-Jun-05	0.073	0.092
F5F210233007	Soil	BRC-BKG-01B-9-11	Uranium 238	1.53			pCi/g	17-Jun-05	0.31	0.07
F5F210233007	Soil	BRC-BKG-01B-9-11	Moisture (%)	2.2			percent	17-Jun-05		
F5F210233007	Soil	BRC-BKG-01B-9-11	Aluminum	3740 NE	J	j	mg/kg	17-Jun-05		2
F5F210233007	Soil	BRC-BKG-01B-9-11	Antimony	0.25 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233007	Soil	BRC-BKG-01B-9-11	Arsenic	4.6			mg/kg	17-Jun-05		0.1278
F5F210233007	Soil	BRC-BKG-01B-9-11	Barium	82.5 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233007	Soil	BRC-BKG-01B-9-11	Beryllium	0.46 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233007	Soil	BRC-BKG-01B-9-11	Boron	4.4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233007	Soil	BRC-BKG-01B-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233007	Soil	BRC-BKG-01B-9-11	Calcium	40400 N			mg/kg	17-Jun-05		1.028
F5F210233007	Soil	BRC-BKG-01B-9-11	Chromium	2.9			mg/kg	17-Jun-05		0.1841
F5F210233007	Soil	BRC-BKG-01B-9-11	Cobalt	3.7 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233007	Soil	BRC-BKG-01B-9-11	Copper	10.2 N			mg/kg	17-Jun-05		0.2205
F5F210233007	Soil	BRC-BKG-01B-9-11	Iron	5410 N			mg/kg	17-Jun-05		1.173
F5F210233007	Soil	BRC-BKG-01B-9-11	Lead	3 N*	J	d	mg/kg	17-Jun-05		0.0506

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233007	Soil	BRC-BKG-01B-9-11	Lithium	13.7			mg/kg	17-Jun-05		0.2425
F5F210233007	Soil	BRC-BKG-01B-9-11	Magnesium	5960 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233007	Soil	BRC-BKG-01B-9-11	Manganese	157 N			mg/kg	17-Jun-05		0.0131
F5F210233007	Soil	BRC-BKG-01B-9-11	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233007	Soil	BRC-BKG-01B-9-11	Molybdenum	0.33 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233007	Soil	BRC-BKG-01B-9-11	Nickel	7.9 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233007	Soil	BRC-BKG-01B-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233007	Soil	BRC-BKG-01B-9-11	Palladium	0.7			mg/kg	17-Jun-05		0.0765
F5F210233007	Soil	BRC-BKG-01B-9-11	Phosphorus	1030			mg/kg	17-Jun-05		1.913
F5F210233007	Soil	BRC-BKG-01B-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233007	Soil	BRC-BKG-01B-9-11	Potassium	1160 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233007	Soil	BRC-BKG-01B-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233007	Soil	BRC-BKG-01B-9-11	Silicon	876 N			mg/kg	17-Jun-05		0.5289
F5F210233007	Soil	BRC-BKG-01B-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233007	Soil	BRC-BKG-01B-9-11	Sodium	570			mg/kg	17-Jun-05		7.567
F5F210233007	Soil	BRC-BKG-01B-9-11	Strontium	356			mg/kg	17-Jun-05		0.0735
F5F210233007	Soil	BRC-BKG-01B-9-11	Thallium	0.21 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233007	Soil	BRC-BKG-01B-9-11	Tin	0.29 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233007	Soil	BRC-BKG-01B-9-11	Titanium	262 N			mg/kg	17-Jun-05		0.1175
F5F210233007	Soil	BRC-BKG-01B-9-11	Tungsten	0.67 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233007	Soil	BRC-BKG-01B-9-11	Uranium	0.74 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233007	Soil	BRC-BKG-01B-9-11	Vanadium	20.2			mg/kg	17-Jun-05		0.5535
F5F210233007	Soil	BRC-BKG-01B-9-11	Zinc	15.4			mg/kg	17-Jun-05		0.2207
F5F210233007	Soil	BRC-BKG-01B-9-11	Zirconium	91.9			mg/kg	17-Jun-05		0.0874
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Chloride	1.2 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Nitrate	U	UJ	h	mg/kg	17-Jun-05		0.1
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Sulfate	1.7 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233009	Soil	BRC-BKG-01C-0-0.5	CEC	6.6			meq/100g	17-Jun-05		
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233009	Soil	BRC-BKG-01C-0-0.5	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Actinium 227 [d]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Actinium 228	2.2			pCi/g	17-Jun-05	0.8	0.57
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Bismuth 210 [e]	0.9 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Bismuth 211 [f]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Bismuth 212	0.81			pCi/g	17-Jun-05	0.64	0.76
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Bismuth 214	1.2			pCi/g	17-Jun-05	0.26	0.44
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Cobalt 57	0.007 U			pCi/g	17-Jun-05	0.031	0.054
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Cobalt 60	-0.012 U			pCi/g	17-Jun-05	0.062	0.11
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lead 210	0.9 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lead 211 [g]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lead 212	1.74			pCi/g	17-Jun-05	0.26	0.14
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lead 214	1.19			pCi/g	17-Jun-05	0.25	0.17
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Polonium 210 [h]	0.9 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Polonium 212 [i]	0.52			pCi/g	17-Jun-05	0.41	0.49
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Polonium 214 [j]	1.2			pCi/g	17-Jun-05	0.25	0.18
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Polonium 215 [k]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Polonium 216 [l]	1.74			pCi/g	17-Jun-05	0.26	0.14
HD3CQ1C4	Soil	BRC-BKG-01C-0-0.5	Polonium 218 [m]	0.855 J	J	k	pCi/g	17-Jun-05	0.14	0.279
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Potassium 40	20.9			pCi/g	17-Jun-05	3.6	0.8
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Protactinium 234	-0.11 U			pCi/g	17-Jun-05	0.16	0.28
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Radium 223 [n]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Radium 224 [o]	1.74			pCi/g	17-Jun-05	0.26	0.14
HD3CQ1C4	Soil	BRC-BKG-01C-0-0.5	Radium 226	0.855 J	J	k	pCi/g	17-Jun-05	0.14	0.279
HD3CQ1C5	Soil	BRC-BKG-01C-0-0.5	Radium 228	1.86 J	R	k, e	pCi/g	17-Jun-05	0.24	0.574
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thallium 207 [p]	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thallium 208	0.7			pCi/g	17-Jun-05	0.16	0.11
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 227	-0.02 U			pCi/g	17-Jun-05	0.48	0.84
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 228	2.28			pCi/g	17-Jun-05	0.44	0.29
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 230	1.24			pCi/g	17-Jun-05	0.27	0.11
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 231	0.064 U			pCi/g	17-Jun-05	0.086	0.11
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 232	2.23			pCi/g	17-Jun-05	0.38	0.06
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thorium 234	0.72 U			pCi/g	17-Jun-05	0.69	1.2
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Uranium 233/234	0.82 J	U	b	pCi/g	17-Jun-05	0.25	0.14
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Uranium 235	0.064 U			pCi/g	17-Jun-05	0.086	0.11

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Uranium 238	0.88 J	J	k	pCi/g	17-Jun-05	0.26	0.09
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Moisture (%)	1.3			percent	17-Jun-05		
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Aluminum	10300 NE	J	j	mg/kg	17-Jun-05		2
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Antimony	0.38 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Arsenic	6.9			mg/kg	17-Jun-05		0.1278
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Barium	162 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Beryllium	0.85			mg/kg	17-Jun-05		0.038
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Boron	8.2	J+	b	mg/kg	17-Jun-05		3.2
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Calcium	42000 N			mg/kg	17-Jun-05		1.028
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Chromium	11.6			mg/kg	17-Jun-05		0.1841
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Cobalt	6.8 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Copper	16.7 N			mg/kg	17-Jun-05		0.2205
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Iron	13300 N			mg/kg	17-Jun-05		1.173
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lead	12.2 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Lithium	18.2			mg/kg	17-Jun-05		0.2425
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Magnesium	14000 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Manganese	376 N			mg/kg	17-Jun-05		0.0131
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Mercury	0.01 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Molybdenum	0.72 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Nickel	15 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Niobium	1.7 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Palladium	0.32			mg/kg	17-Jun-05		0.0765
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Phosphorus	1280			mg/kg	17-Jun-05		1.913
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Potassium	3150 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Selenium	0.32 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Silicon	1240 N			mg/kg	17-Jun-05		0.5289
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Sodium	140			mg/kg	17-Jun-05		7.567
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Strontium	147			mg/kg	17-Jun-05		0.0735
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Thallium	0.52 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Tin	0.56 B	J	g	mg/kg	17-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Titanium	472 N			mg/kg	17-Jun-05		0.1175
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Tungsten	1.6 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Uranium	0.93 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Vanadium	29.6			mg/kg	17-Jun-05		0.5535
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Zinc	42.7			mg/kg	17-Jun-05		0.2207
F5F210233009	Soil	BRC-BKG-01C-0-0.5	Zirconium	103			mg/kg	17-Jun-05		0.0874
F5F210233008	Soil	BRC-BKG-01C-4-6	Chloride	17.1			mg/kg	17-Jun-05		0.25
F5F210233008	Soil	BRC-BKG-01C-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233008	Soil	BRC-BKG-01C-4-6	Nitrate	0.63	J	h	mg/kg	17-Jun-05		0.1
F5F210233008	Soil	BRC-BKG-01C-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233008	Soil	BRC-BKG-01C-4-6	Sulfate	10.7			mg/kg	17-Jun-05		0.612
F5F210233008	Soil	BRC-BKG-01C-4-6	CEC	10.9			meq/100g	17-Jun-05		
F5F210233008	Soil	BRC-BKG-01C-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233008	Soil	BRC-BKG-01C-4-6	pH (solid)	8.6	J	h	none	17-Jun-05		
F5F210233008	Soil	BRC-BKG-01C-4-6	Actinium 227 [d]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Actinium 228	2.66			pCi/g	17-Jun-05	0.85	0.33
F5F210233008	Soil	BRC-BKG-01C-4-6	Bismuth 210 [e]	1.6 U			pCi/g	17-Jun-05	1.4	2.7
F5F210233008	Soil	BRC-BKG-01C-4-6	Bismuth 211 [f]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Bismuth 212	1.6			pCi/g	17-Jun-05	0.7	0.8
F5F210233008	Soil	BRC-BKG-01C-4-6	Bismuth 214	1.2			pCi/g	17-Jun-05	0.27	0.18
F5F210233008	Soil	BRC-BKG-01C-4-6	Cobalt 57	-0.003 U			pCi/g	17-Jun-05	0.034	0.058
F5F210233008	Soil	BRC-BKG-01C-4-6	Cobalt 60	-0.001 U			pCi/g	17-Jun-05	0.066	0.13
F5F210233008	Soil	BRC-BKG-01C-4-6	Lead 210	1.6 U			pCi/g	17-Jun-05	1.4	2.7
F5F210233008	Soil	BRC-BKG-01C-4-6	Lead 211 [g]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Lead 212	1.65			pCi/g	17-Jun-05	0.26	0.14
F5F210233008	Soil	BRC-BKG-01C-4-6	Lead 214	1.22			pCi/g	17-Jun-05	0.28	0.17
F5F210233008	Soil	BRC-BKG-01C-4-6	Polonium 210 [h]	1.6 U			pCi/g	17-Jun-05	1.4	2.7
F5F210233008	Soil	BRC-BKG-01C-4-6	Polonium 212 [i]	1.02			pCi/g	17-Jun-05	0.45	0.51
F5F210233008	Soil	BRC-BKG-01C-4-6	Polonium 214 [j]	1.2			pCi/g	17-Jun-05	0.27	0.18
F5F210233008	Soil	BRC-BKG-01C-4-6	Polonium 215 [k]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Polonium 216 [l]	1.65			pCi/g	17-Jun-05	0.26	0.14
HD3CL1C4	Soil	BRC-BKG-01C-4-6	Polonium 218 [m]	1.54			pCi/g	17-Jun-05	0.2	0.16
F5F210233008	Soil	BRC-BKG-01C-4-6	Potassium 40	27.9			pCi/g	17-Jun-05	4.1	0.6

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233008	Soil	BRC-BKG-01C-4-6	Protactinium 234	-0.17 U			pCi/g	17-Jun-05	0.19	0.3
F5F210233008	Soil	BRC-BKG-01C-4-6	Radium 223 [n]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Radium 224 [o]	1.65			pCi/g	17-Jun-05	0.26	0.14
HD3CL1C4	Soil	BRC-BKG-01C-4-6	Radium 226	1.54			pCi/g	17-Jun-05	0.2	0.16
HD3CL1C5	Soil	BRC-BKG-01C-4-6	Radium 228	2.19	R	e	pCi/g	17-Jun-05	0.28	0.702
F5F210233008	Soil	BRC-BKG-01C-4-6	Thallium 207 [p]	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Thallium 208	0.6			pCi/g	17-Jun-05	0.16	0.11
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 227	-0.17 U			pCi/g	17-Jun-05	0.51	0.87
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 228	1.95			pCi/g	17-Jun-05	0.39	0.26
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 230	1.09			pCi/g	17-Jun-05	0.25	0.1
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 231	0.058 U			pCi/g	17-Jun-05	0.079	0.11
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 232	1.51			pCi/g	17-Jun-05	0.3	0.09
F5F210233008	Soil	BRC-BKG-01C-4-6	Thorium 234	1.19 U			pCi/g	17-Jun-05	0.77	1.3
F5F210233008	Soil	BRC-BKG-01C-4-6	Uranium 233/234	1.59			pCi/g	17-Jun-05	0.33	0.12
F5F210233008	Soil	BRC-BKG-01C-4-6	Uranium 235	0.058 U			pCi/g	17-Jun-05	0.079	0.11
F5F210233008	Soil	BRC-BKG-01C-4-6	Uranium 238	1.32			pCi/g	17-Jun-05	0.29	0.08
F5F210233008	Soil	BRC-BKG-01C-4-6	Moisture (%)	3.1			percent	17-Jun-05		
F5F210233008	Soil	BRC-BKG-01C-4-6	Aluminum	5230 NE	J	j	mg/kg	17-Jun-05		2
F5F210233008	Soil	BRC-BKG-01C-4-6	Antimony	0.13 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233008	Soil	BRC-BKG-01C-4-6	Arsenic	4			mg/kg	17-Jun-05		0.1278
F5F210233008	Soil	BRC-BKG-01C-4-6	Barium	114 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233008	Soil	BRC-BKG-01C-4-6	Beryllium	0.54			mg/kg	17-Jun-05		0.038
F5F210233008	Soil	BRC-BKG-01C-4-6	Boron	4.1 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233008	Soil	BRC-BKG-01C-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233008	Soil	BRC-BKG-01C-4-6	Calcium	25900 N			mg/kg	17-Jun-05		1.028
F5F210233008	Soil	BRC-BKG-01C-4-6	Chromium	3.1			mg/kg	17-Jun-05		0.1841
F5F210233008	Soil	BRC-BKG-01C-4-6	Cobalt	5.4 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233008	Soil	BRC-BKG-01C-4-6	Copper	11.9 N			mg/kg	17-Jun-05		0.2205
F5F210233008	Soil	BRC-BKG-01C-4-6	Iron	6350 N			mg/kg	17-Jun-05		1.173
F5F210233008	Soil	BRC-BKG-01C-4-6	Lead	5 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233008	Soil	BRC-BKG-01C-4-6	Lithium	10			mg/kg	17-Jun-05		0.2425
F5F210233008	Soil	BRC-BKG-01C-4-6	Magnesium	5070 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233008	Soil	BRC-BKG-01C-4-6	Manganese	256 N			mg/kg	17-Jun-05		0.0131

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233008	Soil	BRC-BKG-01C-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233008	Soil	BRC-BKG-01C-4-6	Molybdenum	0.35 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233008	Soil	BRC-BKG-01C-4-6	Nickel	9.2 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233008	Soil	BRC-BKG-01C-4-6	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233008	Soil	BRC-BKG-01C-4-6	Palladium	0.51			mg/kg	17-Jun-05		0.0765
F5F210233008	Soil	BRC-BKG-01C-4-6	Phosphorus	1330			mg/kg	17-Jun-05		1.913
F5F210233008	Soil	BRC-BKG-01C-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233008	Soil	BRC-BKG-01C-4-6	Potassium	1720 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233008	Soil	BRC-BKG-01C-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233008	Soil	BRC-BKG-01C-4-6	Silicon	806 N			mg/kg	17-Jun-05		0.5289
F5F210233008	Soil	BRC-BKG-01C-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233008	Soil	BRC-BKG-01C-4-6	Sodium	503			mg/kg	17-Jun-05		7.567
F5F210233008	Soil	BRC-BKG-01C-4-6	Strontium	219			mg/kg	17-Jun-05		0.0735
F5F210233008	Soil	BRC-BKG-01C-4-6	Thallium	0.25 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233008	Soil	BRC-BKG-01C-4-6	Tin	0.25 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233008	Soil	BRC-BKG-01C-4-6	Titanium	311 N			mg/kg	17-Jun-05		0.1175
F5F210233008	Soil	BRC-BKG-01C-4-6	Tungsten	0.66 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233008	Soil	BRC-BKG-01C-4-6	Uranium	0.81 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233008	Soil	BRC-BKG-01C-4-6	Vanadium	23.9			mg/kg	17-Jun-05		0.5535
F5F210233008	Soil	BRC-BKG-01C-4-6	Zinc	17.6			mg/kg	17-Jun-05		0.2207
F5F210233008	Soil	BRC-BKG-01C-4-6	Zirconium	120			mg/kg	17-Jun-05		0.0874
F5F210233010	Soil	BRC-BKG-01C-9-11	Chloride	24.7			mg/kg	17-Jun-05		0.25
F5F210233010	Soil	BRC-BKG-01C-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233010	Soil	BRC-BKG-01C-9-11	Nitrate	0.87	J	h	mg/kg	17-Jun-05		0.1
F5F210233010	Soil	BRC-BKG-01C-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233010	Soil	BRC-BKG-01C-9-11	Sulfate	124			mg/kg	17-Jun-05		0.612
F5F210233010	Soil	BRC-BKG-01C-9-11	CEC	12.5			meq/100g	17-Jun-05		
F5F210233010	Soil	BRC-BKG-01C-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233010	Soil	BRC-BKG-01C-9-11	pH (solid)	8	J	h	none	17-Jun-05		
F5F210233010	Soil	BRC-BKG-01C-9-11	Actinium 227 [d]	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Actinium 228	1.72			pCi/g	17-Jun-05	0.63	0.42
F5F210233010	Soil	BRC-BKG-01C-9-11	Bismuth 210 [e]	0.7 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233010	Soil	BRC-BKG-01C-9-11	Bismuth 211 [f]	0.24 U			pCi/g	17-Jun-05	0.52	0.93

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233010	Soil	BRC-BKG-01C-9-11	Bismuth 212	1.22 U			pCi/g	17-Jun-05	0.59	1.2
F5F210233010	Soil	BRC-BKG-01C-9-11	Bismuth 214	1.49			pCi/g	17-Jun-05	0.3	0.51
F5F210233010	Soil	BRC-BKG-01C-9-11	Cobalt 57	0.011 U			pCi/g	17-Jun-05	0.035	0.063
F5F210233010	Soil	BRC-BKG-01C-9-11	Cobalt 60	-0.003 U			pCi/g	17-Jun-05	0.069	0.13
F5F210233010	Soil	BRC-BKG-01C-9-11	Lead 210	0.7 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233010	Soil	BRC-BKG-01C-9-11	Lead 211 [g]	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Lead 212	1.71			pCi/g	17-Jun-05	0.26	0.15
F5F210233010	Soil	BRC-BKG-01C-9-11	Lead 214	1.62			pCi/g	17-Jun-05	0.3	0.18
F5F210233010	Soil	BRC-BKG-01C-9-11	Polonium 210 [h]	0.7 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233010	Soil	BRC-BKG-01C-9-11	Polonium 212 [i]	0.78 U			pCi/g	17-Jun-05	0.38	0.79
F5F210233010	Soil	BRC-BKG-01C-9-11	Polonium 214 [j]	1.49			pCi/g	17-Jun-05	0.3	0.18
F5F210233010	Soil	BRC-BKG-01C-9-11	Polonium 215 [k]	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Polonium 216 [l]	1.71			pCi/g	17-Jun-05	0.26	0.15
HD3CR1C4	Soil	BRC-BKG-01C-9-11	Polonium 218 [m]	2.36			pCi/g	17-Jun-05	0.3	0.254
F5F210233010	Soil	BRC-BKG-01C-9-11	Potassium 40	23.4			pCi/g	17-Jun-05	3.8	1.2
F5F210233010	Soil	BRC-BKG-01C-9-11	Protactinium 234	-0.04 U			pCi/g	17-Jun-05	0.18	0.3
F5F210233010	Soil	BRC-BKG-01C-9-11	Radium 223 [n]	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Radium 224 [o]	1.71			pCi/g	17-Jun-05	0.26	0.15
HD3CR1C4	Soil	BRC-BKG-01C-9-11	Radium 226	2.36			pCi/g	17-Jun-05	0.3	0.254
HD3CR1C5	Soil	BRC-BKG-01C-9-11	Radium 228	1.94 J	R	k, e	pCi/g	17-Jun-05	0.28	0.78
F5F210233010	Soil	BRC-BKG-01C-9-11	Thallium 207 [p]	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Thallium 208	0.55			pCi/g	17-Jun-05	0.13	0.1
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 227	0.24 U			pCi/g	17-Jun-05	0.52	0.93
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 228	1.38			pCi/g	17-Jun-05	0.31	0.17
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 230	1.62			pCi/g	17-Jun-05	0.32	0.08
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 231	0.17 J	U	b	pCi/g	17-Jun-05	0.11	0.04
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 232	1.5			pCi/g	17-Jun-05	0.3	0.05
F5F210233010	Soil	BRC-BKG-01C-9-11	Thorium 234	2.5			pCi/g	17-Jun-05	0.89	1.4
F5F210233010	Soil	BRC-BKG-01C-9-11	Uranium 233/234	1.92			pCi/g	17-Jun-05	0.35	0.07
F5F210233010	Soil	BRC-BKG-01C-9-11	Uranium 235	0.17 J	J	k	pCi/g	17-Jun-05	0.11	0.04
F5F210233010	Soil	BRC-BKG-01C-9-11	Uranium 238	1.75			pCi/g	17-Jun-05	0.33	0.05
F5F210233010	Soil	BRC-BKG-01C-9-11	Moisture (%)	3.1			percent	17-Jun-05		
F5F210233010	Soil	BRC-BKG-01C-9-11	Aluminum	4130 NE	J	j	mg/kg	17-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233010	Soil	BRC-BKG-01C-9-11	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298
F5F210233010	Soil	BRC-BKG-01C-9-11	Arsenic	4.8			mg/kg	17-Jun-05		0.1278
F5F210233010	Soil	BRC-BKG-01C-9-11	Barium	102 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233010	Soil	BRC-BKG-01C-9-11	Beryllium	0.5 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233010	Soil	BRC-BKG-01C-9-11	Boron	4.3 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233010	Soil	BRC-BKG-01C-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233010	Soil	BRC-BKG-01C-9-11	Calcium	41100 N			mg/kg	17-Jun-05		1.028
F5F210233010	Soil	BRC-BKG-01C-9-11	Chromium	2.6			mg/kg	17-Jun-05		0.1841
F5F210233010	Soil	BRC-BKG-01C-9-11	Cobalt	3.9 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233010	Soil	BRC-BKG-01C-9-11	Copper	11 N			mg/kg	17-Jun-05		0.2205
F5F210233010	Soil	BRC-BKG-01C-9-11	Iron	5510 N			mg/kg	17-Jun-05		1.173
F5F210233010	Soil	BRC-BKG-01C-9-11	Lead	3.6 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233010	Soil	BRC-BKG-01C-9-11	Lithium	12.1			mg/kg	17-Jun-05		0.2425
F5F210233010	Soil	BRC-BKG-01C-9-11	Magnesium	6680 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233010	Soil	BRC-BKG-01C-9-11	Manganese	151 N			mg/kg	17-Jun-05		0.0131
F5F210233010	Soil	BRC-BKG-01C-9-11	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233010	Soil	BRC-BKG-01C-9-11	Molybdenum	0.43 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233010	Soil	BRC-BKG-01C-9-11	Nickel	8 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233010	Soil	BRC-BKG-01C-9-11	Niobium	1.4 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233010	Soil	BRC-BKG-01C-9-11	Palladium	0.84			mg/kg	17-Jun-05		0.0765
F5F210233010	Soil	BRC-BKG-01C-9-11	Phosphorus	970			mg/kg	17-Jun-05		1.913
F5F210233010	Soil	BRC-BKG-01C-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233010	Soil	BRC-BKG-01C-9-11	Potassium	1310 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233010	Soil	BRC-BKG-01C-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233010	Soil	BRC-BKG-01C-9-11	Silicon	831 N			mg/kg	17-Jun-05		0.5289
F5F210233010	Soil	BRC-BKG-01C-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233010	Soil	BRC-BKG-01C-9-11	Sodium	522			mg/kg	17-Jun-05		7.567
F5F210233010	Soil	BRC-BKG-01C-9-11	Strontium	363			mg/kg	17-Jun-05		0.0735
F5F210233010	Soil	BRC-BKG-01C-9-11	Thallium	0.29 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233010	Soil	BRC-BKG-01C-9-11	Tin	0.24 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233010	Soil	BRC-BKG-01C-9-11	Titanium	352 N			mg/kg	17-Jun-05		0.1175
F5F210233010	Soil	BRC-BKG-01C-9-11	Tungsten	1.2 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233010	Soil	BRC-BKG-01C-9-11	Uranium	1.1			mg/kg	17-Jun-05		0.038

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233010	Soil	BRC-BKG-01C-9-11	Vanadium	22.9			mg/kg	17-Jun-05		0.5535
F5F210233010	Soil	BRC-BKG-01C-9-11	Zinc	17.1			mg/kg	17-Jun-05		0.2207
F5F210233010	Soil	BRC-BKG-01C-9-11	Zirconium	93.8			mg/kg	17-Jun-05		0.0874
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Chloride	2.3			mg/kg	16-Jun-05		0.25
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Fluoride	0.36 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Nitrate	0.31	J	h	mg/kg	16-Jun-05		0.1
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Sulfate	21.9			mg/kg	16-Jun-05		0.612
F5F180132012	Soil	BRC-BKG-02A-0-0.5	CEC	7.6			meq/100g	16-Jun-05		
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132012	Soil	BRC-BKG-02A-0-0.5	pH (solid)	8.7	J	h	none	16-Jun-05		
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Actinium 227 [d]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Actinium 228	1.98			pCi/g	16-Jun-05	0.71	0.36
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Bismuth 210 [e]	1.9 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Bismuth 211 [f]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Bismuth 212	1.82			pCi/g	16-Jun-05	0.67	0.82
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Bismuth 214	1.16			pCi/g	16-Jun-05	0.25	0.18
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Cobalt 57	0.007 U			pCi/g	16-Jun-05	0.031	0.053
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Cobalt 60	-0.058 U			pCi/g	16-Jun-05	0.071	0.12
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lead 210	1.9 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lead 211 [g]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lead 212	1.86			pCi/g	16-Jun-05	0.27	0.13
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lead 214	1.07			pCi/g	16-Jun-05	0.22	0.16
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Polonium 210 [h]	1.9 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Polonium 212 [i]	1.16			pCi/g	16-Jun-05	0.43	0.52
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Polonium 214 [j]	1.16			pCi/g	16-Jun-05	0.25	0.18
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Polonium 215 [k]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Polonium 216 [l]	1.86			pCi/g	16-Jun-05	0.27	0.13
HDXHK1C4	Soil	BRC-BKG-02A-0-0.5	Polonium 218 [m]	1.2			pCi/g	16-Jun-05	0.15	0.101
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Potassium 40	25.9			pCi/g	16-Jun-05	3.8	0.9
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Protactinium 234	-0.14 U			pCi/g	16-Jun-05	0.15	0.25
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Radium 223 [n]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Radium 224 [o]	1.86			pCi/g	16-Jun-05	0.27	0.13

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDXHK1C4	Soil	BRC-BKG-02A-0-0.5	Radium 226	1.2			pCi/g	16-Jun-05	0.15	0.101
HDXHK1C5	Soil	BRC-BKG-02A-0-0.5	Radium 228	2.17			pCi/g	16-Jun-05	0.26	0.719
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thallium 207 [p]	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thallium 208	0.58			pCi/g	16-Jun-05	0.15	0.1
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 227	0.34 U			pCi/g	16-Jun-05	0.44	0.81
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 228	2.09			pCi/g	16-Jun-05	0.43	0.19
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 230	1.7			pCi/g	16-Jun-05	0.37	0.13
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 231	0.076 J	U	b	pCi/g	16-Jun-05	0.085	0.051
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 232	1.9			pCi/g	16-Jun-05	0.39	0.06
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thorium 234	1.84			pCi/g	16-Jun-05	0.55	1
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Uranium 233/234	1.22	J+	b	pCi/g	16-Jun-05	0.3	0.09
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Uranium 235	0.076 J	J	k	pCi/g	16-Jun-05	0.085	0.051
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Uranium 238	1.38			pCi/g	16-Jun-05	0.32	0.06
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Moisture (%)	1.1			percent	16-Jun-05		
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Aluminum	6980 NE	J	j	mg/kg	16-Jun-05		2
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Antimony	0.23 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Arsenic	4.2 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Barium	90.4 N			mg/kg	16-Jun-05		0.152
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Beryllium	0.54			mg/kg	16-Jun-05		0.038
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Boron	4.2 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Calcium	19300 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Chromium	8			mg/kg	16-Jun-05		0.1841
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Cobalt	5.7			mg/kg	16-Jun-05		0.064
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Copper	13.7			mg/kg	16-Jun-05		0.2205
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Iron	10500 N			mg/kg	16-Jun-05		1.173
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lead	7.5 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Lithium	12.9			mg/kg	16-Jun-05		0.2425
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Magnesium	7380 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Manganese	263 N			mg/kg	16-Jun-05		0.0131
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Mercury	0.027 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Molybdenum	0.47 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Nickel	11.8			mg/kg	16-Jun-05		0.1295

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Palladium	0.23			mg/kg	16-Jun-05		0.0765
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Phosphorus	1300 N			mg/kg	16-Jun-05		1.913
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Potassium	2230			mg/kg	16-Jun-05		2.079
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Selenium	0.36 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Silicon	2760 N			mg/kg	16-Jun-05		0.5289
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Sodium	166			mg/kg	16-Jun-05		7.567
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Strontium	105			mg/kg	16-Jun-05		0.0735
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Thallium	0.68 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Tin	0.38 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Titanium	371			mg/kg	16-Jun-05		0.1175
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Tungsten	0.77 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Uranium	0.64 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Vanadium	23.6 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Zinc	31.7			mg/kg	16-Jun-05		0.2207
F5F180132012	Soil	BRC-BKG-02A-0-0.5	Zirconium	99.3 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132013	Soil	BRC-BKG-02A-4-6	Chloride	388			mg/kg	16-Jun-05		0.25
F5F180132013	Soil	BRC-BKG-02A-4-6	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132013	Soil	BRC-BKG-02A-4-6	Nitrate	102	J	h	mg/kg	16-Jun-05		0.1
F5F180132013	Soil	BRC-BKG-02A-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132013	Soil	BRC-BKG-02A-4-6	Sulfate	678			mg/kg	16-Jun-05		0.612
F5F180132013	Soil	BRC-BKG-02A-4-6	CEC	12.1			meq/100g	16-Jun-05		
F5F180132013	Soil	BRC-BKG-02A-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132013	Soil	BRC-BKG-02A-4-6	pH (solid)	8.2	J	h	none	16-Jun-05		
F5F180132013	Soil	BRC-BKG-02A-4-6	Actinium 227 [d]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Actinium 228	1.84			pCi/g	16-Jun-05	0.69	0.39
F5F180132013	Soil	BRC-BKG-02A-4-6	Bismuth 210 [e]	0.3 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132013	Soil	BRC-BKG-02A-4-6	Bismuth 211 [f]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Bismuth 212	1.7			pCi/g	16-Jun-05	0.63	0.7
F5F180132013	Soil	BRC-BKG-02A-4-6	Bismuth 214	1.08			pCi/g	16-Jun-05	0.24	0.16
F5F180132013	Soil	BRC-BKG-02A-4-6	Cobalt 57	-0.007 U			pCi/g	16-Jun-05	0.033	0.057

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132013	Soil	BRC-BKG-02A-4-6	Cobalt 60	0.065 U			pCi/g	16-Jun-05	0.062	0.14
F5F180132013	Soil	BRC-BKG-02A-4-6	Lead 210	0.3 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132013	Soil	BRC-BKG-02A-4-6	Lead 211 [g]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Lead 212	1.92			pCi/g	16-Jun-05	0.28	0.14
F5F180132013	Soil	BRC-BKG-02A-4-6	Lead 214	0.89			pCi/g	16-Jun-05	0.2	0.19
F5F180132013	Soil	BRC-BKG-02A-4-6	Polonium 210 [h]	0.3 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132013	Soil	BRC-BKG-02A-4-6	Polonium 212 [i]	1.09			pCi/g	16-Jun-05	0.41	0.45
F5F180132013	Soil	BRC-BKG-02A-4-6	Polonium 214 [j]	1.08			pCi/g	16-Jun-05	0.24	0.16
F5F180132013	Soil	BRC-BKG-02A-4-6	Polonium 215 [k]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Polonium 216 [l]	1.92			pCi/g	16-Jun-05	0.28	0.14
HDXHL1C4	Soil	BRC-BKG-02A-4-6	Polonium 218 [m]	1.15			pCi/g	16-Jun-05	0.14	0.11
F5F180132013	Soil	BRC-BKG-02A-4-6	Potassium 40	27			pCi/g	16-Jun-05	4	0.8
F5F180132013	Soil	BRC-BKG-02A-4-6	Protactinium 234	0.004 U			pCi/g	16-Jun-05	0.18	0.3
F5F180132013	Soil	BRC-BKG-02A-4-6	Radium 223 [n]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Radium 224 [o]	1.92			pCi/g	16-Jun-05	0.28	0.14
HDXHL1C4	Soil	BRC-BKG-02A-4-6	Radium 226	1.15			pCi/g	16-Jun-05	0.14	0.11
HDXHL1C5	Soil	BRC-BKG-02A-4-6	Radium 228	2.01			pCi/g	16-Jun-05	0.24	0.654
F5F180132013	Soil	BRC-BKG-02A-4-6	Thallium 207 [p]	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Thallium 208	0.65			pCi/g	16-Jun-05	0.15	0.1
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 227	0.14 U			pCi/g	16-Jun-05	0.47	0.83
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 228	1.97			pCi/g	16-Jun-05	0.42	0.18
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 230	1.15			pCi/g	16-Jun-05	0.29	0.08
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 231	0.014 U			pCi/g	16-Jun-05	0.041	0.039
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 232	2.06			pCi/g	16-Jun-05	0.41	0.07
F5F180132013	Soil	BRC-BKG-02A-4-6	Thorium 234	2.18			pCi/g	16-Jun-05	0.82	1.3
F5F180132013	Soil	BRC-BKG-02A-4-6	Uranium 233/234	0.92 J	U	b	pCi/g	16-Jun-05	0.23	0.08
F5F180132013	Soil	BRC-BKG-02A-4-6	Uranium 235	0.014 U			pCi/g	16-Jun-05	0.041	0.039
F5F180132013	Soil	BRC-BKG-02A-4-6	Uranium 238	1.02			pCi/g	16-Jun-05	0.24	0.07
F5F180132013	Soil	BRC-BKG-02A-4-6	Moisture (%)	2.1			percent	16-Jun-05		
F5F180132013	Soil	BRC-BKG-02A-4-6	Aluminum	6530 NE	J	j	mg/kg	16-Jun-05		2
F5F180132013	Soil	BRC-BKG-02A-4-6	Antimony	0.14 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132013	Soil	BRC-BKG-02A-4-6	Arsenic	3 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132013	Soil	BRC-BKG-02A-4-6	Barium	216 N			mg/kg	16-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132013	Soil	BRC-BKG-02A-4-6	Beryllium	0.55			mg/kg	16-Jun-05		0.038
F5F180132013	Soil	BRC-BKG-02A-4-6	Boron	3.5 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132013	Soil	BRC-BKG-02A-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132013	Soil	BRC-BKG-02A-4-6	Calcium	13500 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132013	Soil	BRC-BKG-02A-4-6	Chromium	6.4			mg/kg	16-Jun-05		0.1841
F5F180132013	Soil	BRC-BKG-02A-4-6	Cobalt	5.9			mg/kg	16-Jun-05		0.064
F5F180132013	Soil	BRC-BKG-02A-4-6	Copper	13.5			mg/kg	16-Jun-05		0.2205
F5F180132013	Soil	BRC-BKG-02A-4-6	Iron	9430 N			mg/kg	16-Jun-05		1.173
F5F180132013	Soil	BRC-BKG-02A-4-6	Lead	6.6 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132013	Soil	BRC-BKG-02A-4-6	Lithium	10.8			mg/kg	16-Jun-05		0.2425
F5F180132013	Soil	BRC-BKG-02A-4-6	Magnesium	4690 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132013	Soil	BRC-BKG-02A-4-6	Manganese	323 N			mg/kg	16-Jun-05		0.0131
F5F180132013	Soil	BRC-BKG-02A-4-6	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132013	Soil	BRC-BKG-02A-4-6	Molybdenum	0.53 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132013	Soil	BRC-BKG-02A-4-6	Nickel	10.6			mg/kg	16-Jun-05		0.1295
F5F180132013	Soil	BRC-BKG-02A-4-6	Niobium	1.4 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132013	Soil	BRC-BKG-02A-4-6	Palladium	0.37			mg/kg	16-Jun-05		0.0765
F5F180132013	Soil	BRC-BKG-02A-4-6	Phosphorus	1200 N			mg/kg	16-Jun-05		1.913
F5F180132013	Soil	BRC-BKG-02A-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132013	Soil	BRC-BKG-02A-4-6	Potassium	2370			mg/kg	16-Jun-05		2.079
F5F180132013	Soil	BRC-BKG-02A-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132013	Soil	BRC-BKG-02A-4-6	Silicon	1090 N			mg/kg	16-Jun-05		0.5289
F5F180132013	Soil	BRC-BKG-02A-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132013	Soil	BRC-BKG-02A-4-6	Sodium	487			mg/kg	16-Jun-05		7.567
F5F180132013	Soil	BRC-BKG-02A-4-6	Strontium	168			mg/kg	16-Jun-05		0.0735
F5F180132013	Soil	BRC-BKG-02A-4-6	Thallium	0.79 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132013	Soil	BRC-BKG-02A-4-6	Tin	0.43 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132013	Soil	BRC-BKG-02A-4-6	Titanium	536			mg/kg	16-Jun-05		0.1175
F5F180132013	Soil	BRC-BKG-02A-4-6	Tungsten	0.97 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132013	Soil	BRC-BKG-02A-4-6	Uranium	0.76 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132013	Soil	BRC-BKG-02A-4-6	Vanadium	30.8 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132013	Soil	BRC-BKG-02A-4-6	Zinc	25.9			mg/kg	16-Jun-05		0.2207
F5F180132013	Soil	BRC-BKG-02A-4-6	Zirconium	125 NE	J-	j, e	mg/kg	16-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132014	Soil	BRC-BKG-02A-9-11	Chloride	254			mg/kg	16-Jun-05		0.25
F5F180132014	Soil	BRC-BKG-02A-9-11	Fluoride	0.32 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132014	Soil	BRC-BKG-02A-9-11	Nitrate	42.1	J	h	mg/kg	16-Jun-05		0.1
F5F180132014	Soil	BRC-BKG-02A-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132014	Soil	BRC-BKG-02A-9-11	Sulfate	21.2			mg/kg	16-Jun-05		0.612
F5F180132014	Soil	BRC-BKG-02A-9-11	CEC	13.6			meq/100g	16-Jun-05		
F5F180132014	Soil	BRC-BKG-02A-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132014	Soil	BRC-BKG-02A-9-11	pH (solid)	8.4	J	h	none	16-Jun-05		
F5F180132014	Soil	BRC-BKG-02A-9-11	Actinium 227 [d]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Actinium 228	1.9			pCi/g	16-Jun-05	0.66	0.37
F5F180132014	Soil	BRC-BKG-02A-9-11	Bismuth 210 [e]	1 U			pCi/g	16-Jun-05	1.1	1.7
F5F180132014	Soil	BRC-BKG-02A-9-11	Bismuth 211 [f]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Bismuth 212	1.36			pCi/g	16-Jun-05	0.63	0.75
F5F180132014	Soil	BRC-BKG-02A-9-11	Bismuth 214	0.95			pCi/g	16-Jun-05	0.22	0.36
F5F180132014	Soil	BRC-BKG-02A-9-11	Cobalt 57	0.012 U			pCi/g	16-Jun-05	0.029	0.05
F5F180132014	Soil	BRC-BKG-02A-9-11	Cobalt 60	0.013 U			pCi/g	16-Jun-05	0.051	0.1
F5F180132014	Soil	BRC-BKG-02A-9-11	Lead 210	1 U			pCi/g	16-Jun-05	1.1	1.7
F5F180132014	Soil	BRC-BKG-02A-9-11	Lead 211 [g]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Lead 212	1.62			pCi/g	16-Jun-05	0.26	0.15
F5F180132014	Soil	BRC-BKG-02A-9-11	Lead 214	0.97			pCi/g	16-Jun-05	0.2	0.15
F5F180132014	Soil	BRC-BKG-02A-9-11	Polonium 210 [h]	1 U			pCi/g	16-Jun-05	1.1	1.7
F5F180132014	Soil	BRC-BKG-02A-9-11	Polonium 212 [i]	0.87			pCi/g	16-Jun-05	0.4	0.48
F5F180132014	Soil	BRC-BKG-02A-9-11	Polonium 214 [j]	0.95			pCi/g	16-Jun-05	0.22	0.16
F5F180132014	Soil	BRC-BKG-02A-9-11	Polonium 215 [k]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Polonium 216 [l]	1.62			pCi/g	16-Jun-05	0.26	0.15
HDXHM1DH	Soil	BRC-BKG-02A-9-11	Polonium 218 [m]	1.07	J	n	pCi/g	16-Jun-05	0.14	0.112
F5F180132014	Soil	BRC-BKG-02A-9-11	Potassium 40	24.5			pCi/g	16-Jun-05	3.4	5.2
F5F180132014	Soil	BRC-BKG-02A-9-11	Protactinium 234	-0.001 U			pCi/g	16-Jun-05	0.16	0.24
F5F180132014	Soil	BRC-BKG-02A-9-11	Radium 223 [n]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Radium 224 [o]	1.62			pCi/g	16-Jun-05	0.26	0.15
HDXHM1DH	Soil	BRC-BKG-02A-9-11	Radium 226	1.07	J	n	pCi/g	16-Jun-05	0.14	0.112
HDXHM1DJ	Soil	BRC-BKG-02A-9-11	Radium 228	2.04			pCi/g	16-Jun-05	0.25	0.723
F5F180132014	Soil	BRC-BKG-02A-9-11	Thallium 207 [p]	-0.11 U			pCi/g	16-Jun-05	0.42	0.72

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132014	Soil	BRC-BKG-02A-9-11	Thallium 208	0.54			pCi/g	16-Jun-05	0.14	0.1
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 227	-0.11 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 228	1.86			pCi/g	16-Jun-05	0.4	0.18
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 230	1.56			pCi/g	16-Jun-05	0.35	0.09
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 231	0 U			pCi/g	16-Jun-05	0	0.05
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 232	1.69			pCi/g	16-Jun-05	0.36	0.09
F5F180132014	Soil	BRC-BKG-02A-9-11	Thorium 234	1.2			pCi/g	16-Jun-05	0.66	1.1
F5F180132014	Soil	BRC-BKG-02A-9-11	Uranium 233/234	1.16	U	b	pCi/g	16-Jun-05	0.28	0.07
F5F180132014	Soil	BRC-BKG-02A-9-11	Uranium 235	0 U			pCi/g	16-Jun-05	0	0.05
F5F180132014	Soil	BRC-BKG-02A-9-11	Uranium 238	1.31			pCi/g	16-Jun-05	0.3	0.07
F5F180132014	Soil	BRC-BKG-02A-9-11	Moisture (%)	1.6			percent	16-Jun-05		
F5F180132014	Soil	BRC-BKG-02A-9-11	Aluminum	6420 NE	J	j	mg/kg	16-Jun-05		2
F5F180132014	Soil	BRC-BKG-02A-9-11	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132014	Soil	BRC-BKG-02A-9-11	Arsenic	3.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132014	Soil	BRC-BKG-02A-9-11	Barium	174 N			mg/kg	16-Jun-05		0.152
F5F180132014	Soil	BRC-BKG-02A-9-11	Beryllium	0.53			mg/kg	16-Jun-05		0.038
F5F180132014	Soil	BRC-BKG-02A-9-11	Boron	3.4 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132014	Soil	BRC-BKG-02A-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132014	Soil	BRC-BKG-02A-9-11	Calcium	20000 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132014	Soil	BRC-BKG-02A-9-11	Chromium	8.4			mg/kg	16-Jun-05		0.1841
F5F180132014	Soil	BRC-BKG-02A-9-11	Cobalt	6.1			mg/kg	16-Jun-05		0.064
F5F180132014	Soil	BRC-BKG-02A-9-11	Copper	14.9			mg/kg	16-Jun-05		0.2205
F5F180132014	Soil	BRC-BKG-02A-9-11	Iron	10200 N			mg/kg	16-Jun-05		1.173
F5F180132014	Soil	BRC-BKG-02A-9-11	Lead	6 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132014	Soil	BRC-BKG-02A-9-11	Lithium	11.9			mg/kg	16-Jun-05		0.2425
F5F180132014	Soil	BRC-BKG-02A-9-11	Magnesium	5530 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132014	Soil	BRC-BKG-02A-9-11	Manganese	266 N			mg/kg	16-Jun-05		0.0131
F5F180132014	Soil	BRC-BKG-02A-9-11	Mercury	0.0098 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132014	Soil	BRC-BKG-02A-9-11	Molybdenum	0.51 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132014	Soil	BRC-BKG-02A-9-11	Nickel	11.7			mg/kg	16-Jun-05		0.1295
F5F180132014	Soil	BRC-BKG-02A-9-11	Niobium	1.4 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132014	Soil	BRC-BKG-02A-9-11	Palladium	0.4			mg/kg	16-Jun-05		0.0765
F5F180132014	Soil	BRC-BKG-02A-9-11	Phosphorus	1530 N			mg/kg	16-Jun-05		1.913

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132014	Soil	BRC-BKG-02A-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132014	Soil	BRC-BKG-02A-9-11	Potassium	1890			mg/kg	16-Jun-05		2.079
F5F180132014	Soil	BRC-BKG-02A-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132014	Soil	BRC-BKG-02A-9-11	Silicon	1380 N			mg/kg	16-Jun-05		0.5289
F5F180132014	Soil	BRC-BKG-02A-9-11	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132014	Soil	BRC-BKG-02A-9-11	Sodium	560			mg/kg	16-Jun-05		7.567
F5F180132014	Soil	BRC-BKG-02A-9-11	Strontium	202			mg/kg	16-Jun-05		0.0735
F5F180132014	Soil	BRC-BKG-02A-9-11	Thallium	0.47 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132014	Soil	BRC-BKG-02A-9-11	Tin	0.4 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132014	Soil	BRC-BKG-02A-9-11	Titanium	586			mg/kg	16-Jun-05		0.1175
F5F180132014	Soil	BRC-BKG-02A-9-11	Tungsten	0.89 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132014	Soil	BRC-BKG-02A-9-11	Uranium	0.68 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132014	Soil	BRC-BKG-02A-9-11	Vanadium	34.6 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132014	Soil	BRC-BKG-02A-9-11	Zinc	26.3			mg/kg	16-Jun-05		0.2207
F5F180132014	Soil	BRC-BKG-02A-9-11	Zirconium	125 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Chloride	1.5 B	U	b	mg/kg	16-Jun-05		0.25
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Fluoride	0.34 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Nitrate	0.19 B	J	h, g	mg/kg	16-Jun-05		0.1
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Sulfate	124			mg/kg	16-Jun-05		0.612
F5F180132015	Soil	BRC-BKG-02B-0-0.5	CEC	13.7			meq/100g	16-Jun-05		
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132015	Soil	BRC-BKG-02B-0-0.5	pH (solid)	8.5	J	h	none	16-Jun-05		
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Actinium 227 [d]	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Actinium 228	2.05			pCi/g	16-Jun-05	0.69	0.39
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Bismuth 210 [e]	1 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Bismuth 211 [f]	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Bismuth 212	1.19			pCi/g	16-Jun-05	0.75	0.77
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Bismuth 214	1.12			pCi/g	16-Jun-05	0.29	0.39
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Cobalt 57	-0.024 U			pCi/g	16-Jun-05	0.03	0.049
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Cobalt 60	0.019 U			pCi/g	16-Jun-05	0.062	0.12
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lead 210	1 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lead 211 [g]	0.08 U			pCi/g	16-Jun-05	0.45	0.79

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lead 212	1.76			pCi/g	16-Jun-05	0.26	0.13
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lead 214	0.96			pCi/g	16-Jun-05	0.21	0.15
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Polonium 210 [h]	1 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Polonium 212 [i]	0.76			pCi/g	16-Jun-05	0.48	0.5
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Polonium 214 [j]	1.12			pCi/g	16-Jun-05	0.29	0.17
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Polonium 215 [k]	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Polonium 216 [l]	1.76			pCi/g	16-Jun-05	0.26	0.13
HDXHN1C4	Soil	BRC-BKG-02B-0-0.5	Polonium 218 [m]	0.945 J	J	k, n	pCi/g	16-Jun-05	0.13	0.186
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Potassium 40	24.2			pCi/g	16-Jun-05	3.9	1
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Protactinium 234	-0.13 U			pCi/g	16-Jun-05	0.16	0.26
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Radium 223 [n]	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Radium 224 [o]	1.76			pCi/g	16-Jun-05	0.26	0.13
HDXHN1C4	Soil	BRC-BKG-02B-0-0.5	Radium 226	0.945 J	J	k, n	pCi/g	16-Jun-05	0.13	0.186
HDXHN1C5	Soil	BRC-BKG-02B-0-0.5	Radium 228	2.34			pCi/g	16-Jun-05	0.26	0.684
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thallium 207 [p]	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thallium 208	0.62			pCi/g	16-Jun-05	0.15	0.1
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 227	0.08 U			pCi/g	16-Jun-05	0.45	0.79
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 228	1.66			pCi/g	16-Jun-05	0.31	0.09
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 230	1.21			pCi/g	16-Jun-05	0.25	0.05
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 231	0.011 U			pCi/g	16-Jun-05	0.059	0.11
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 232	1.81			pCi/g	16-Jun-05	0.32	0.06
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thorium 234	0.83 U			pCi/g	16-Jun-05	0.64	1.1
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Uranium 233/234	1 J	U	b	pCi/g	16-Jun-05	0.26	0.12
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Uranium 235	0.011 U			pCi/g	16-Jun-05	0.059	0.11
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Uranium 238	1.08			pCi/g	16-Jun-05	0.26	0.08
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Moisture (%)	1.2			percent	16-Jun-05		
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Aluminum	9620 NE	J	j	mg/kg	16-Jun-05		2
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Antimony	0.24 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Arsenic	6.3 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Barium	131 N			mg/kg	16-Jun-05		0.152
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Beryllium	0.72			mg/kg	16-Jun-05		0.038
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Boron	5.9	J+	b	mg/kg	16-Jun-05		3.2
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Calcium	30200 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Chromium	11.1			mg/kg	16-Jun-05		0.1841
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Cobalt	7.3			mg/kg	16-Jun-05		0.064
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Copper	18.6			mg/kg	16-Jun-05		0.2205
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Iron	13200 N			mg/kg	16-Jun-05		1.173
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lead	9.2 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Lithium	18.9			mg/kg	16-Jun-05		0.2425
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Magnesium	10000 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Manganese	344 N			mg/kg	16-Jun-05		0.0131
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Mercury	0.015 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Molybdenum	0.61 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Nickel	16.3			mg/kg	16-Jun-05		0.1295
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Palladium	0.41			mg/kg	16-Jun-05		0.0765
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Phosphorus	1510 N			mg/kg	16-Jun-05		1.913
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Potassium	3510			mg/kg	16-Jun-05		2.079
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Selenium	0.3 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Silicon	3580 N			mg/kg	16-Jun-05		0.5289
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Sodium	276			mg/kg	16-Jun-05		7.567
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Strontium	188			mg/kg	16-Jun-05		0.0735
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Thallium	0.2 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Tin	0.53 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Titanium	549			mg/kg	16-Jun-05		0.1175
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Tungsten	0.75 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Uranium	0.96 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Vanadium	36 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Zinc	42.3			mg/kg	16-Jun-05		0.2207
F5F180132015	Soil	BRC-BKG-02B-0-0.5	Zirconium	130 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132016	Soil	BRC-BKG-02B-4-6	Chloride	332			mg/kg	16-Jun-05		0.25
F5F180132016	Soil	BRC-BKG-02B-4-6	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132016	Soil	BRC-BKG-02B-4-6	Nitrate	75.8	J	h	mg/kg	16-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132016	Soil	BRC-BKG-02B-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132016	Soil	BRC-BKG-02B-4-6	Sulfate	180			mg/kg	16-Jun-05		0.612
F5F180132016	Soil	BRC-BKG-02B-4-6	CEC	16.5			meq/100g	16-Jun-05		
F5F180132016	Soil	BRC-BKG-02B-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132016	Soil	BRC-BKG-02B-4-6	pH (solid)	8.2	J	h	none	16-Jun-05		
F5F180132016	Soil	BRC-BKG-02B-4-6	Actinium 227 [d]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Actinium 228	2.28			pCi/g	16-Jun-05	0.79	0.41
F5F180132016	Soil	BRC-BKG-02B-4-6	Bismuth 210 [e]	1.4 U			pCi/g	16-Jun-05	1.3	2.4
F5F180132016	Soil	BRC-BKG-02B-4-6	Bismuth 211 [f]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Bismuth 212	0.99			pCi/g	16-Jun-05	0.78	0.99
F5F180132016	Soil	BRC-BKG-02B-4-6	Bismuth 214	1.21			pCi/g	16-Jun-05	0.26	0.18
F5F180132016	Soil	BRC-BKG-02B-4-6	Cobalt 57	0.0003 U			pCi/g	16-Jun-05	0.035	0.061
F5F180132016	Soil	BRC-BKG-02B-4-6	Cobalt 60	-0.014 U			pCi/g	16-Jun-05	0.07	0.13
F5F180132016	Soil	BRC-BKG-02B-4-6	Lead 210	1.4 U			pCi/g	16-Jun-05	1.3	2.4
F5F180132016	Soil	BRC-BKG-02B-4-6	Lead 211 [g]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Lead 212	1.72			pCi/g	16-Jun-05	0.31	0.24
F5F180132016	Soil	BRC-BKG-02B-4-6	Lead 214	1.1			pCi/g	16-Jun-05	0.25	0.16
F5F180132016	Soil	BRC-BKG-02B-4-6	Polonium 210 [h]	1.4 U			pCi/g	16-Jun-05	1.3	2.4
F5F180132016	Soil	BRC-BKG-02B-4-6	Polonium 212 [i]	0.63			pCi/g	16-Jun-05	0.5	0.63
F5F180132016	Soil	BRC-BKG-02B-4-6	Polonium 214 [j]	1.21			pCi/g	16-Jun-05	0.26	0.18
F5F180132016	Soil	BRC-BKG-02B-4-6	Polonium 215 [k]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Polonium 216 [l]	1.72			pCi/g	16-Jun-05	0.31	0.24
HDXHP1C4	Soil	BRC-BKG-02B-4-6	Polonium 218 [m]	0.965 J	J	k	pCi/g	16-Jun-05	0.14	0.156
F5F180132016	Soil	BRC-BKG-02B-4-6	Potassium 40	26.2			pCi/g	16-Jun-05	3.9	0.9
F5F180132016	Soil	BRC-BKG-02B-4-6	Protactinium 234	-0.12 U			pCi/g	16-Jun-05	0.19	0.31
F5F180132016	Soil	BRC-BKG-02B-4-6	Radium 223 [n]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Radium 224 [o]	1.72			pCi/g	16-Jun-05	0.31	0.24
HDXHP1C4	Soil	BRC-BKG-02B-4-6	Radium 226	0.965 J	J	k	pCi/g	16-Jun-05	0.14	0.156
HDXHP1C5	Soil	BRC-BKG-02B-4-6	Radium 228	2.36			pCi/g	16-Jun-05	0.27	0.743
F5F180132016	Soil	BRC-BKG-02B-4-6	Thallium 207 [p]	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Thallium 208	0.66			pCi/g	16-Jun-05	0.16	0.1
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 227	0.23 U			pCi/g	16-Jun-05	0.48	0.86
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 228	2.03			pCi/g	16-Jun-05	0.44	0.3

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 230	1.07			pCi/g	16-Jun-05	0.27	0.12
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 231	0.086 U			pCi/g	16-Jun-05	0.084	0.096
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 232	2			pCi/g	16-Jun-05	0.39	0.1
F5F180132016	Soil	BRC-BKG-02B-4-6	Thorium 234	0.75 U			pCi/g	16-Jun-05	0.82	1.3
F5F180132016	Soil	BRC-BKG-02B-4-6	Uranium 233/234	1.01	U	b	pCi/g	16-Jun-05	0.25	0.1
F5F180132016	Soil	BRC-BKG-02B-4-6	Uranium 235	0.086 U			pCi/g	16-Jun-05	0.084	0.096
F5F180132016	Soil	BRC-BKG-02B-4-6	Uranium 238	0.99 J	J	k	pCi/g	16-Jun-05	0.24	0.09
F5F180132016	Soil	BRC-BKG-02B-4-6	Moisture (%)	2.2			percent	16-Jun-05		
F5F180132016	Soil	BRC-BKG-02B-4-6	Aluminum	7650 NE	J	j	mg/kg	16-Jun-05		2
F5F180132016	Soil	BRC-BKG-02B-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132016	Soil	BRC-BKG-02B-4-6	Arsenic	3.6 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132016	Soil	BRC-BKG-02B-4-6	Barium	224 N			mg/kg	16-Jun-05		0.152
F5F180132016	Soil	BRC-BKG-02B-4-6	Beryllium	0.54			mg/kg	16-Jun-05		0.038
F5F180132016	Soil	BRC-BKG-02B-4-6	Boron	4.1 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132016	Soil	BRC-BKG-02B-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132016	Soil	BRC-BKG-02B-4-6	Calcium	13000 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132016	Soil	BRC-BKG-02B-4-6	Chromium	12			mg/kg	16-Jun-05		0.1841
F5F180132016	Soil	BRC-BKG-02B-4-6	Cobalt	7.4			mg/kg	16-Jun-05		0.064
F5F180132016	Soil	BRC-BKG-02B-4-6	Copper	20.6			mg/kg	16-Jun-05		0.2205
F5F180132016	Soil	BRC-BKG-02B-4-6	Iron	11200 N			mg/kg	16-Jun-05		1.173
F5F180132016	Soil	BRC-BKG-02B-4-6	Lead	6.8 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132016	Soil	BRC-BKG-02B-4-6	Lithium	11.9			mg/kg	16-Jun-05		0.2425
F5F180132016	Soil	BRC-BKG-02B-4-6	Magnesium	5670 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132016	Soil	BRC-BKG-02B-4-6	Manganese	353 N			mg/kg	16-Jun-05		0.0131
F5F180132016	Soil	BRC-BKG-02B-4-6	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132016	Soil	BRC-BKG-02B-4-6	Molybdenum	2			mg/kg	16-Jun-05		0.241
F5F180132016	Soil	BRC-BKG-02B-4-6	Nickel	14.1			mg/kg	16-Jun-05		0.1295
F5F180132016	Soil	BRC-BKG-02B-4-6	Niobium	2.8 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132016	Soil	BRC-BKG-02B-4-6	Palladium	0.43			mg/kg	16-Jun-05		0.0765
F5F180132016	Soil	BRC-BKG-02B-4-6	Phosphorus	1600 N			mg/kg	16-Jun-05		1.913
F5F180132016	Soil	BRC-BKG-02B-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132016	Soil	BRC-BKG-02B-4-6	Potassium	2660			mg/kg	16-Jun-05		2.079
F5F180132016	Soil	BRC-BKG-02B-4-6	Selenium	0.36 B	J	g	mg/kg	16-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132016	Soil	BRC-BKG-02B-4-6	Silicon	1330 N			mg/kg	16-Jun-05		0.5289
F5F180132016	Soil	BRC-BKG-02B-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132016	Soil	BRC-BKG-02B-4-6	Sodium	575			mg/kg	16-Jun-05		7.567
F5F180132016	Soil	BRC-BKG-02B-4-6	Strontium	209			mg/kg	16-Jun-05		0.0735
F5F180132016	Soil	BRC-BKG-02B-4-6	Thallium	0.61 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132016	Soil	BRC-BKG-02B-4-6	Tin	0.62 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132016	Soil	BRC-BKG-02B-4-6	Titanium	703			mg/kg	16-Jun-05		0.1175
F5F180132016	Soil	BRC-BKG-02B-4-6	Tungsten	1.8 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132016	Soil	BRC-BKG-02B-4-6	Uranium	0.84 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132016	Soil	BRC-BKG-02B-4-6	Vanadium	39.9 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132016	Soil	BRC-BKG-02B-4-6	Zinc	26.9			mg/kg	16-Jun-05		0.2207
F5F180132016	Soil	BRC-BKG-02B-4-6	Zirconium	138 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132017	Soil	BRC-BKG-02B-9-11	Chloride	330			mg/kg	16-Jun-05		0.25
F5F180132017	Soil	BRC-BKG-02B-9-11	Fluoride	0.76 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132017	Soil	BRC-BKG-02B-9-11	Nitrate	34.5	J	h	mg/kg	16-Jun-05		0.1
F5F180132017	Soil	BRC-BKG-02B-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132017	Soil	BRC-BKG-02B-9-11	Sulfate	49.8			mg/kg	16-Jun-05		0.612
F5F180132017	Soil	BRC-BKG-02B-9-11	CEC	11.3			meq/100g	16-Jun-05		
F5F180132017	Soil	BRC-BKG-02B-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132017	Soil	BRC-BKG-02B-9-11	pH (solid)	8.3	J	h	none	16-Jun-05		
F5F180132017	Soil	BRC-BKG-02B-9-11	Actinium 227 [d]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Actinium 228	2			pCi/g	16-Jun-05	0.69	0.37
F5F180132017	Soil	BRC-BKG-02B-9-11	Bismuth 210 [e]	0.6 U			pCi/g	16-Jun-05	1	1.9
F5F180132017	Soil	BRC-BKG-02B-9-11	Bismuth 211 [f]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Bismuth 212	1.53			pCi/g	16-Jun-05	0.71	0.81
F5F180132017	Soil	BRC-BKG-02B-9-11	Bismuth 214	0.82			pCi/g	16-Jun-05	0.21	0.18
F5F180132017	Soil	BRC-BKG-02B-9-11	Cobalt 57	-0.004 U			pCi/g	16-Jun-05	0.031	0.052
F5F180132017	Soil	BRC-BKG-02B-9-11	Cobalt 60	-0.018 U			pCi/g	16-Jun-05	0.065	0.12
F5F180132017	Soil	BRC-BKG-02B-9-11	Lead 210	0.6 U			pCi/g	16-Jun-05	1	1.9
F5F180132017	Soil	BRC-BKG-02B-9-11	Lead 211 [g]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Lead 212	1.72			pCi/g	16-Jun-05	0.27	0.16
F5F180132017	Soil	BRC-BKG-02B-9-11	Lead 214	1.01			pCi/g	16-Jun-05	0.23	0.16
F5F180132017	Soil	BRC-BKG-02B-9-11	Polonium 210 [h]	0.6 U			pCi/g	16-Jun-05	1	1.9

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132017	Soil	BRC-BKG-02B-9-11	Polonium 212 [i]	0.98			pCi/g	16-Jun-05	0.46	0.52
F5F180132017	Soil	BRC-BKG-02B-9-11	Polonium 214 [j]	0.82			pCi/g	16-Jun-05	0.21	0.18
F5F180132017	Soil	BRC-BKG-02B-9-11	Polonium 215 [k]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Polonium 216 [l]	1.72			pCi/g	16-Jun-05	0.27	0.16
HDXHQ1C4	Soil	BRC-BKG-02B-9-11	Polonium 218 [m]	1.03	J	n	pCi/g	16-Jun-05	0.14	0.166
F5F180132017	Soil	BRC-BKG-02B-9-11	Potassium 40	25.6			pCi/g	16-Jun-05	3.7	1
F5F180132017	Soil	BRC-BKG-02B-9-11	Protactinium 234	-0.19 U			pCi/g	16-Jun-05	0.14	0.23
F5F180132017	Soil	BRC-BKG-02B-9-11	Radium 223 [n]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Radium 224 [o]	1.72			pCi/g	16-Jun-05	0.27	0.16
HDXHQ1C4	Soil	BRC-BKG-02B-9-11	Radium 226	1.03	J	n	pCi/g	16-Jun-05	0.14	0.166
HDXHQ1C5	Soil	BRC-BKG-02B-9-11	Radium 228	2.05			pCi/g	16-Jun-05	0.25	0.704
F5F180132017	Soil	BRC-BKG-02B-9-11	Thallium 207 [p]	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Thallium 208	0.6			pCi/g	16-Jun-05	0.13	0.1
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 227	0.15 U			pCi/g	16-Jun-05	0.42	0.77
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 228	1.56			pCi/g	16-Jun-05	0.36	0.28
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 230	1.03			pCi/g	16-Jun-05	0.24	0.1
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 231	0.031 U			pCi/g	16-Jun-05	0.051	0.074
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 232	1.37			pCi/g	16-Jun-05	0.28	0.06
F5F180132017	Soil	BRC-BKG-02B-9-11	Thorium 234	1.66			pCi/g	16-Jun-05	0.5	0.86
F5F180132017	Soil	BRC-BKG-02B-9-11	Uranium 233/234	1.03	U	b	pCi/g	16-Jun-05	0.26	0.09
F5F180132017	Soil	BRC-BKG-02B-9-11	Uranium 235	0.031 U			pCi/g	16-Jun-05	0.051	0.074
F5F180132017	Soil	BRC-BKG-02B-9-11	Uranium 238	1.07			pCi/g	16-Jun-05	0.27	0.04
F5F180132017	Soil	BRC-BKG-02B-9-11	Moisture (%)	1.8			percent	16-Jun-05		
F5F180132017	Soil	BRC-BKG-02B-9-11	Aluminum	6560 NE	J	j	mg/kg	16-Jun-05		2
F5F180132017	Soil	BRC-BKG-02B-9-11	Antimony	0.16 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132017	Soil	BRC-BKG-02B-9-11	Arsenic	3.9 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132017	Soil	BRC-BKG-02B-9-11	Barium	177 N			mg/kg	16-Jun-05		0.152
F5F180132017	Soil	BRC-BKG-02B-9-11	Beryllium	0.5 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132017	Soil	BRC-BKG-02B-9-11	Boron	3.7 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132017	Soil	BRC-BKG-02B-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132017	Soil	BRC-BKG-02B-9-11	Calcium	26500 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132017	Soil	BRC-BKG-02B-9-11	Chromium	5.8			mg/kg	16-Jun-05		0.1841
F5F180132017	Soil	BRC-BKG-02B-9-11	Cobalt	5.8			mg/kg	16-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132017	Soil	BRC-BKG-02B-9-11	Copper	14.7			mg/kg	16-Jun-05		0.2205
F5F180132017	Soil	BRC-BKG-02B-9-11	Iron	9170 N			mg/kg	16-Jun-05		1.173
F5F180132017	Soil	BRC-BKG-02B-9-11	Lead	5.7 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132017	Soil	BRC-BKG-02B-9-11	Lithium	11.5			mg/kg	16-Jun-05		0.2425
F5F180132017	Soil	BRC-BKG-02B-9-11	Magnesium	5640 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132017	Soil	BRC-BKG-02B-9-11	Manganese	290 N			mg/kg	16-Jun-05		0.0131
F5F180132017	Soil	BRC-BKG-02B-9-11	Mercury	0.012 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132017	Soil	BRC-BKG-02B-9-11	Molybdenum	0.6 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132017	Soil	BRC-BKG-02B-9-11	Nickel	11.1			mg/kg	16-Jun-05		0.1295
F5F180132017	Soil	BRC-BKG-02B-9-11	Niobium	2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132017	Soil	BRC-BKG-02B-9-11	Palladium	0.52			mg/kg	16-Jun-05		0.0765
F5F180132017	Soil	BRC-BKG-02B-9-11	Phosphorus	1370 N			mg/kg	16-Jun-05		1.913
F5F180132017	Soil	BRC-BKG-02B-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132017	Soil	BRC-BKG-02B-9-11	Potassium	2010			mg/kg	16-Jun-05		2.079
F5F180132017	Soil	BRC-BKG-02B-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132017	Soil	BRC-BKG-02B-9-11	Silicon	1120 N			mg/kg	16-Jun-05		0.5289
F5F180132017	Soil	BRC-BKG-02B-9-11	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132017	Soil	BRC-BKG-02B-9-11	Sodium	568			mg/kg	16-Jun-05		7.567
F5F180132017	Soil	BRC-BKG-02B-9-11	Strontium	225			mg/kg	16-Jun-05		0.0735
F5F180132017	Soil	BRC-BKG-02B-9-11	Thallium	U			mg/kg	16-Jun-05		0.5428
F5F180132017	Soil	BRC-BKG-02B-9-11	Tin	0.43 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132017	Soil	BRC-BKG-02B-9-11	Titanium	582			mg/kg	16-Jun-05		0.1175
F5F180132017	Soil	BRC-BKG-02B-9-11	Tungsten	1.4 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132017	Soil	BRC-BKG-02B-9-11	Uranium	0.83 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132017	Soil	BRC-BKG-02B-9-11	Vanadium	33.9 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132017	Soil	BRC-BKG-02B-9-11	Zinc	24.4			mg/kg	16-Jun-05		0.2207
F5F180132017	Soil	BRC-BKG-02B-9-11	Zirconium	126 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Chloride	1.6 B	U	b	mg/kg	16-Jun-05		0.25
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Fluoride	0.32 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Nitrate	0.37	J	h	mg/kg	16-Jun-05		0.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Sulfate	15.9			mg/kg	16-Jun-05		0.612
F5F180132018	Soil	BRC-BKG-02C-0-0.5	CEC	8.3			meq/100g	16-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132018	Soil	BRC-BKG-02C-0-0.5	pH (solid)	8.8	J	h	none	16-Jun-05		
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Actinium 227 [d]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Actinium 228	1.65			pCi/g	16-Jun-05	0.63	0.42
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Bismuth 210 [e]	-0.05 U			pCi/g	16-Jun-05	1.2	2.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Bismuth 211 [f]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Bismuth 212	1.62			pCi/g	16-Jun-05	0.67	0.73
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Bismuth 214	1.01			pCi/g	16-Jun-05	0.25	0.39
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Cobalt 57	-0.009 U			pCi/g	16-Jun-05	0.031	0.051
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Cobalt 60	0.044 U			pCi/g	16-Jun-05	0.056	0.12
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lead 210	-0.05 U			pCi/g	16-Jun-05	1.2	2.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lead 211 [g]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lead 212	1.77			pCi/g	16-Jun-05	0.26	0.13
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lead 214	0.93			pCi/g	16-Jun-05	0.22	0.16
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Polonium 210 [h]	-0.05 U			pCi/g	16-Jun-05	1.2	2.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Polonium 212 [i]	1.04			pCi/g	16-Jun-05	0.43	0.47
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Polonium 214 [j]	1.01			pCi/g	16-Jun-05	0.25	0.17
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Polonium 215 [k]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Polonium 216 [l]	1.77			pCi/g	16-Jun-05	0.26	0.13
HDXHR1C4	Soil	BRC-BKG-02C-0-0.5	Polonium 218 [m]	1.06	J	n	pCi/g	16-Jun-05	0.14	0.149
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Potassium 40	24.5			pCi/g	16-Jun-05	4	1.3
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Protactinium 234	-0.05 U			pCi/g	16-Jun-05	0.15	0.26
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Radium 223 [n]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Radium 224 [o]	1.77			pCi/g	16-Jun-05	0.26	0.13
HDXHR1C4	Soil	BRC-BKG-02C-0-0.5	Radium 226	1.06	J	n	pCi/g	16-Jun-05	0.14	0.149
HDXHR1C5	Soil	BRC-BKG-02C-0-0.5	Radium 228	1.91 J	J	k	pCi/g	16-Jun-05	0.22	0.572
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thallium 207 [p]	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thallium 208	0.63			pCi/g	16-Jun-05	0.13	0.09
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 227	0.2 U			pCi/g	16-Jun-05	0.43	0.77
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 228	1.9			pCi/g	16-Jun-05	0.42	0.21
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 230	1.41			pCi/g	16-Jun-05	0.33	0.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 231	0 U			pCi/g	16-Jun-05	0	0.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 232	2.12			pCi/g	16-Jun-05	0.42	0.07

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thorium 234	2.07			pCi/g	16-Jun-05	0.57	0.98
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Uranium 233/234	1.22	J+	b	pCi/g	16-Jun-05	0.33	0.15
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Uranium 235	0 U			pCi/g	16-Jun-05	0	0.1
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Uranium 238	1.14			pCi/g	16-Jun-05	0.31	0.11
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Moisture (%)	1.1			percent	16-Jun-05		
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Aluminum	10800 NE	J	j	mg/kg	16-Jun-05		2
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Antimony	0.21 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Arsenic	5.9 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Barium	146 N			mg/kg	16-Jun-05		0.152
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Beryllium	0.8			mg/kg	16-Jun-05		0.038
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Boron	5.7	J+	b	mg/kg	16-Jun-05		3.2
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Calcium	30100 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Chromium	10.1			mg/kg	16-Jun-05		0.1841
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Cobalt	7.3			mg/kg	16-Jun-05		0.064
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Copper	19.1			mg/kg	16-Jun-05		0.2205
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Iron	12500 N			mg/kg	16-Jun-05		1.173
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lead	9 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Lithium	17.3			mg/kg	16-Jun-05		0.2425
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Magnesium	10200 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Manganese	340 N			mg/kg	16-Jun-05		0.0131
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Mercury	0.014 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Molybdenum	0.59 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Nickel	16			mg/kg	16-Jun-05		0.1295
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Palladium	0.37			mg/kg	16-Jun-05		0.0765
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Phosphorus	1520 N			mg/kg	16-Jun-05		1.913
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Potassium	3410			mg/kg	16-Jun-05		2.079
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Selenium	0.29 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Silicon	3680 N			mg/kg	16-Jun-05		0.5289
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Sodium	247			mg/kg	16-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Strontium	173			mg/kg	16-Jun-05		0.0735
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Thallium	0.52 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Tin	0.56 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Titanium	530			mg/kg	16-Jun-05		0.1175
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Tungsten	1.1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Uranium	1.1			mg/kg	16-Jun-05		0.038
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Vanadium	34.2 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Zinc	43.1			mg/kg	16-Jun-05		0.2207
F5F180132018	Soil	BRC-BKG-02C-0-0.5	Zirconium	134 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132019	Soil	BRC-BKG-02C-4-6	Chloride	278			mg/kg	16-Jun-05		0.25
F5F180132019	Soil	BRC-BKG-02C-4-6	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132019	Soil	BRC-BKG-02C-4-6	Nitrate	14.6	J	h	mg/kg	16-Jun-05		0.1
F5F180132019	Soil	BRC-BKG-02C-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132019	Soil	BRC-BKG-02C-4-6	Sulfate	311			mg/kg	16-Jun-05		0.612
F5F180132019	Soil	BRC-BKG-02C-4-6	CEC	10.4			meq/100g	16-Jun-05		
F5F180132019	Soil	BRC-BKG-02C-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132019	Soil	BRC-BKG-02C-4-6	pH (solid)	8.5	J	h	none	16-Jun-05		
F5F180132019	Soil	BRC-BKG-02C-4-6	Actinium 227 [d]	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Actinium 228	2.35			pCi/g	16-Jun-05	0.79	0.33
F5F180132019	Soil	BRC-BKG-02C-4-6	Bismuth 210 [e]	0.5 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132019	Soil	BRC-BKG-02C-4-6	Bismuth 211 [f]	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Bismuth 212	1.06			pCi/g	16-Jun-05	0.74	0.78
F5F180132019	Soil	BRC-BKG-02C-4-6	Bismuth 214	1.08			pCi/g	16-Jun-05	0.26	0.44
F5F180132019	Soil	BRC-BKG-02C-4-6	Cobalt 57	0.004 U			pCi/g	16-Jun-05	0.035	0.062
F5F180132019	Soil	BRC-BKG-02C-4-6	Cobalt 60	-0.038 U			pCi/g	16-Jun-05	0.061	0.1
F5F180132019	Soil	BRC-BKG-02C-4-6	Lead 210	0.5 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132019	Soil	BRC-BKG-02C-4-6	Lead 211 [g]	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Lead 212	1.72			pCi/g	16-Jun-05	0.32	0.19
F5F180132019	Soil	BRC-BKG-02C-4-6	Lead 214	1.2			pCi/g	16-Jun-05	0.29	0.16
F5F180132019	Soil	BRC-BKG-02C-4-6	Polonium 210 [h]	0.5 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132019	Soil	BRC-BKG-02C-4-6	Polonium 212 [i]	0.68			pCi/g	16-Jun-05	0.47	0.5
F5F180132019	Soil	BRC-BKG-02C-4-6	Polonium 214 [j]	1.08			pCi/g	16-Jun-05	0.25	0.19
F5F180132019	Soil	BRC-BKG-02C-4-6	Polonium 215 [k]	0.36 U			pCi/g	16-Jun-05	0.47	0.86

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132019	Soil	BRC-BKG-02C-4-6	Polonium 216 [l]	1.72			pCi/g	16-Jun-05	0.32	0.19
HDXHT1FH	Soil	BRC-BKG-02C-4-6	Polonium 218 [m]	1.37			pCi/g	16-Jun-05	0.18	0.133
F5F180132019	Soil	BRC-BKG-02C-4-6	Potassium 40	28.5			pCi/g	16-Jun-05	4.3	1.1
F5F180132019	Soil	BRC-BKG-02C-4-6	Protactinium 234	-0.15 U			pCi/g	16-Jun-05	0.18	0.3
F5F180132019	Soil	BRC-BKG-02C-4-6	Radium 223 [n]	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Radium 224 [o]	1.72			pCi/g	16-Jun-05	0.32	0.19
HDXHT1FH	Soil	BRC-BKG-02C-4-6	Radium 226	1.37			pCi/g	16-Jun-05	0.18	0.133
HDXHT1FJ	Soil	BRC-BKG-02C-4-6	Radium 228	1.61 J	J	k	pCi/g	16-Jun-05	0.22	0.636
F5F180132019	Soil	BRC-BKG-02C-4-6	Thallium 207 [p]	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Thallium 208	0.58			pCi/g	16-Jun-05	0.14	0.11
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 227	0.36 U			pCi/g	16-Jun-05	0.47	0.86
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 228	2.08			pCi/g	16-Jun-05	0.36	0.08
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 230	1.46			pCi/g	16-Jun-05	0.29	0.06
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 231	0.067 U			pCi/g	16-Jun-05	0.091	0.12
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 232	2.04			pCi/g	16-Jun-05	0.35	0.06
F5F180132019	Soil	BRC-BKG-02C-4-6	Thorium 234	0.97 U			pCi/g	16-Jun-05	0.75	1.3
F5F180132019	Soil	BRC-BKG-02C-4-6	Uranium 233/234	1.14	U	b	pCi/g	16-Jun-05	0.31	0.15
F5F180132019	Soil	BRC-BKG-02C-4-6	Uranium 235	0.067 U			pCi/g	16-Jun-05	0.091	0.12
F5F180132019	Soil	BRC-BKG-02C-4-6	Uranium 238	1.07			pCi/g	16-Jun-05	0.29	0.1
F5F180132019	Soil	BRC-BKG-02C-4-6	Moisture (%)	3			percent	16-Jun-05		
F5F180132019	Soil	BRC-BKG-02C-4-6	Aluminum	6470 N			mg/kg	16-Jun-05		2
F5F180132019	Soil	BRC-BKG-02C-4-6	Antimony	0.17 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132019	Soil	BRC-BKG-02C-4-6	Arsenic	3.6			mg/kg	16-Jun-05		0.1278
F5F180132019	Soil	BRC-BKG-02C-4-6	Barium	167			mg/kg	16-Jun-05		0.152
F5F180132019	Soil	BRC-BKG-02C-4-6	Beryllium	0.47 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132019	Soil	BRC-BKG-02C-4-6	Boron	3.8 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132019	Soil	BRC-BKG-02C-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132019	Soil	BRC-BKG-02C-4-6	Calcium	19100 N			mg/kg	16-Jun-05		1.028
F5F180132019	Soil	BRC-BKG-02C-4-6	Chromium	5.8			mg/kg	16-Jun-05		0.1841
F5F180132019	Soil	BRC-BKG-02C-4-6	Cobalt	5.7 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132019	Soil	BRC-BKG-02C-4-6	Copper	13.6			mg/kg	16-Jun-05		0.2205
F5F180132019	Soil	BRC-BKG-02C-4-6	Iron	9450 N			mg/kg	16-Jun-05		1.173
F5F180132019	Soil	BRC-BKG-02C-4-6	Lead	6.6			mg/kg	16-Jun-05		0.0506

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132019	Soil	BRC-BKG-02C-4-6	Lithium	10.6			mg/kg	16-Jun-05		0.2425
F5F180132019	Soil	BRC-BKG-02C-4-6	Magnesium	4960			mg/kg	16-Jun-05		1.176
F5F180132019	Soil	BRC-BKG-02C-4-6	Manganese	270 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132019	Soil	BRC-BKG-02C-4-6	Mercury	0.0086 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132019	Soil	BRC-BKG-02C-4-6	Molybdenum	0.51 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132019	Soil	BRC-BKG-02C-4-6	Nickel	10 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132019	Soil	BRC-BKG-02C-4-6	Niobium	1.8 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132019	Soil	BRC-BKG-02C-4-6	Palladium	0.35			mg/kg	16-Jun-05		0.0765
F5F180132019	Soil	BRC-BKG-02C-4-6	Phosphorus	1480 N			mg/kg	16-Jun-05		1.913
F5F180132019	Soil	BRC-BKG-02C-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132019	Soil	BRC-BKG-02C-4-6	Potassium	2050			mg/kg	16-Jun-05		2.079
F5F180132019	Soil	BRC-BKG-02C-4-6	Selenium	0.34 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132019	Soil	BRC-BKG-02C-4-6	Silicon	907 N			mg/kg	16-Jun-05		0.5289
F5F180132019	Soil	BRC-BKG-02C-4-6	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132019	Soil	BRC-BKG-02C-4-6	Sodium	777			mg/kg	16-Jun-05		7.567
F5F180132019	Soil	BRC-BKG-02C-4-6	Strontium	184 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132019	Soil	BRC-BKG-02C-4-6	Thallium	0.56 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132019	Soil	BRC-BKG-02C-4-6	Tin	0.4 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132019	Soil	BRC-BKG-02C-4-6	Titanium	495 N			mg/kg	16-Jun-05		0.1175
F5F180132019	Soil	BRC-BKG-02C-4-6	Tungsten	1.5 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132019	Soil	BRC-BKG-02C-4-6	Uranium	0.73 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132019	Soil	BRC-BKG-02C-4-6	Vanadium	30.5 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132019	Soil	BRC-BKG-02C-4-6	Zinc	26.9			mg/kg	16-Jun-05		0.2207
F5F180132019	Soil	BRC-BKG-02C-4-6	Zirconium	131			mg/kg	16-Jun-05		0.0874
F5F180132020	Soil	BRC-BKG-02C-9-11	Chloride	535			mg/kg	16-Jun-05		0.25
F5F180132020	Soil	BRC-BKG-02C-9-11	Fluoride	0.4 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132020	Soil	BRC-BKG-02C-9-11	Nitrate	2.1	J	h	mg/kg	16-Jun-05		0.1
F5F180132020	Soil	BRC-BKG-02C-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132020	Soil	BRC-BKG-02C-9-11	Sulfate	17.7			mg/kg	16-Jun-05		0.612
F5F180132020	Soil	BRC-BKG-02C-9-11	CEC	9.6			meq/100g	16-Jun-05		
F5F180132020	Soil	BRC-BKG-02C-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132020	Soil	BRC-BKG-02C-9-11	pH (solid)	8.3	J	h	none	16-Jun-05		
F5F180132020	Soil	BRC-BKG-02C-9-11	Actinium 227 [d]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132020	Soil	BRC-BKG-02C-9-11	Actinium 228	2.32			pCi/g	16-Jun-05	0.77	0.33
F5F180132020	Soil	BRC-BKG-02C-9-11	Bismuth 210 [e]	0.009 U			pCi/g	16-Jun-05	1.1	2
F5F180132020	Soil	BRC-BKG-02C-9-11	Bismuth 211 [f]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Bismuth 212	1.46			pCi/g	16-Jun-05	0.57	0.6
F5F180132020	Soil	BRC-BKG-02C-9-11	Bismuth 214	0.97			pCi/g	16-Jun-05	0.25	0.4
F5F180132020	Soil	BRC-BKG-02C-9-11	Cobalt 57	0.002 U			pCi/g	16-Jun-05	0.03	0.051
F5F180132020	Soil	BRC-BKG-02C-9-11	Cobalt 60	0.007 U			pCi/g	16-Jun-05	0.065	0.12
F5F180132020	Soil	BRC-BKG-02C-9-11	Lead 210	0.009 U			pCi/g	16-Jun-05	1.1	2
F5F180132020	Soil	BRC-BKG-02C-9-11	Lead 211 [g]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Lead 212	1.78			pCi/g	16-Jun-05	0.26	0.14
F5F180132020	Soil	BRC-BKG-02C-9-11	Lead 214	1.11			pCi/g	16-Jun-05	0.23	0.16
F5F180132020	Soil	BRC-BKG-02C-9-11	Polonium 210 [h]	0.009 U			pCi/g	16-Jun-05	1.1	2
F5F180132020	Soil	BRC-BKG-02C-9-11	Polonium 212 [i]	0.93			pCi/g	16-Jun-05	0.36	0.39
F5F180132020	Soil	BRC-BKG-02C-9-11	Polonium 214 [j]	0.97			pCi/g	16-Jun-05	0.25	0.18
F5F180132020	Soil	BRC-BKG-02C-9-11	Polonium 215 [k]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Polonium 216 [l]	1.78			pCi/g	16-Jun-05	0.26	0.14
HDXHV1C5	Soil	BRC-BKG-02C-9-11	Polonium 218 [m]	1.27			pCi/g	16-Jun-05	0.15	0.0727
F5F180132020	Soil	BRC-BKG-02C-9-11	Potassium 40	27			pCi/g	16-Jun-05	3.8	5.7
F5F180132020	Soil	BRC-BKG-02C-9-11	Protactinium 234	-0.03 U			pCi/g	16-Jun-05	0.16	0.25
F5F180132020	Soil	BRC-BKG-02C-9-11	Radium 223 [n]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Radium 224 [o]	1.78			pCi/g	16-Jun-05	0.26	0.14
HDXHV1C5	Soil	BRC-BKG-02C-9-11	Radium 226	1.27			pCi/g	16-Jun-05	0.15	0.0727
HDXHV1C6	Soil	BRC-BKG-02C-9-11	Radium 228	2.92			pCi/g	16-Jun-05	0.3	0.559
F5F180132020	Soil	BRC-BKG-02C-9-11	Thallium 207 [p]	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Thallium 208	0.62			pCi/g	16-Jun-05	0.14	0.1
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 227	-0.09 U			pCi/g	16-Jun-05	0.43	0.75
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 228	1.97			pCi/g	16-Jun-05	0.34	0.08
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 230	1.1			pCi/g	16-Jun-05	0.24	0.05
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 231	0.001 U			pCi/g	16-Jun-05	0.044	0.097
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 232	1.98			pCi/g	16-Jun-05	0.34	0.03
F5F180132020	Soil	BRC-BKG-02C-9-11	Thorium 234	1.37			pCi/g	16-Jun-05	0.72	1.2
F5F180132020	Soil	BRC-BKG-02C-9-11	Uranium 233/234	1.17	U	b	pCi/g	16-Jun-05	0.28	0.13
F5F180132020	Soil	BRC-BKG-02C-9-11	Uranium 235	0.001 U			pCi/g	16-Jun-05	0.044	0.097

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132020	Soil	BRC-BKG-02C-9-11	Uranium 238	1.1			pCi/g	16-Jun-05	0.26	0.09
F5F180132020	Soil	BRC-BKG-02C-9-11	Moisture (%)	2			percent	16-Jun-05		
F5F180132020	Soil	BRC-BKG-02C-9-11	Aluminum	8450 N			mg/kg	16-Jun-05		2
F5F180132020	Soil	BRC-BKG-02C-9-11	Antimony	0.14 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132020	Soil	BRC-BKG-02C-9-11	Arsenic	3.7			mg/kg	16-Jun-05		0.1278
F5F180132020	Soil	BRC-BKG-02C-9-11	Barium	184			mg/kg	16-Jun-05		0.152
F5F180132020	Soil	BRC-BKG-02C-9-11	Beryllium	0.54			mg/kg	16-Jun-05		0.038
F5F180132020	Soil	BRC-BKG-02C-9-11	Boron	4.9 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132020	Soil	BRC-BKG-02C-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132020	Soil	BRC-BKG-02C-9-11	Calcium	18400 N			mg/kg	16-Jun-05		1.028
F5F180132020	Soil	BRC-BKG-02C-9-11	Chromium	6			mg/kg	16-Jun-05		0.1841
F5F180132020	Soil	BRC-BKG-02C-9-11	Cobalt	7 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132020	Soil	BRC-BKG-02C-9-11	Copper	15.7			mg/kg	16-Jun-05		0.2205
F5F180132020	Soil	BRC-BKG-02C-9-11	Iron	10100 N			mg/kg	16-Jun-05		1.173
F5F180132020	Soil	BRC-BKG-02C-9-11	Lead	7.2			mg/kg	16-Jun-05		0.0506
F5F180132020	Soil	BRC-BKG-02C-9-11	Lithium	11.8			mg/kg	16-Jun-05		0.2425
F5F180132020	Soil	BRC-BKG-02C-9-11	Magnesium	6340			mg/kg	16-Jun-05		1.176
F5F180132020	Soil	BRC-BKG-02C-9-11	Manganese	339 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132020	Soil	BRC-BKG-02C-9-11	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132020	Soil	BRC-BKG-02C-9-11	Molybdenum	0.61 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132020	Soil	BRC-BKG-02C-9-11	Nickel	12.8 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132020	Soil	BRC-BKG-02C-9-11	Niobium	2 BN	U	b	mg/kg	16-Jun-05		1.015
F5F180132020	Soil	BRC-BKG-02C-9-11	Palladium	0.53			mg/kg	16-Jun-05		0.0765
F5F180132020	Soil	BRC-BKG-02C-9-11	Phosphorus	1440 N			mg/kg	16-Jun-05		1.913
F5F180132020	Soil	BRC-BKG-02C-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132020	Soil	BRC-BKG-02C-9-11	Potassium	2270			mg/kg	16-Jun-05		2.079
F5F180132020	Soil	BRC-BKG-02C-9-11	Selenium	0.31 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132020	Soil	BRC-BKG-02C-9-11	Silicon	1300 N			mg/kg	16-Jun-05		0.5289
F5F180132020	Soil	BRC-BKG-02C-9-11	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132020	Soil	BRC-BKG-02C-9-11	Sodium	629			mg/kg	16-Jun-05		7.567
F5F180132020	Soil	BRC-BKG-02C-9-11	Strontium	239 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132020	Soil	BRC-BKG-02C-9-11	Thallium	0.38 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132020	Soil	BRC-BKG-02C-9-11	Tin	0.51 B	J	g	mg/kg	16-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132020	Soil	BRC-BKG-02C-9-11	Titanium	616 N			mg/kg	16-Jun-05		0.1175
F5F180132020	Soil	BRC-BKG-02C-9-11	Tungsten	2.1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132020	Soil	BRC-BKG-02C-9-11	Uranium	0.84 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132020	Soil	BRC-BKG-02C-9-11	Vanadium	36.6 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132020	Soil	BRC-BKG-02C-9-11	Zinc	28.5			mg/kg	16-Jun-05		0.2207
F5F180132020	Soil	BRC-BKG-02C-9-11	Zirconium	133			mg/kg	16-Jun-05		0.0874
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Chloride	0.77 B	U	b	mg/kg	16-Jun-05		0.25
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Nitrate	0.25	J	h	mg/kg	16-Jun-05		0.1
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Nitrite	0.15 B	J	h, g	mg/kg	16-Jun-05		0.061
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Sulfate	2.2 B	U	b	mg/kg	16-Jun-05		0.612
F5F180132021	Soil	BRC-BKG-03A-0-0.5	CEC	14.8			meq/100g	16-Jun-05		
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132021	Soil	BRC-BKG-03A-0-0.5	pH (solid)	8.7	J	h	none	16-Jun-05		
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Actinium 227 [d]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Actinium 228	2.2			pCi/g	16-Jun-05	0.75	0.43
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Bismuth 210 [e]	1.5 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Bismuth 211 [f]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Bismuth 212	1.34			pCi/g	16-Jun-05	0.75	0.83
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Bismuth 214	1.26			pCi/g	16-Jun-05	0.31	0.52
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Cobalt 57	0.006 U			pCi/g	16-Jun-05	0.035	0.061
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Cobalt 60	-0.073 U			pCi/g	16-Jun-05	0.065	0.093
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lead 210	1.5 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lead 211 [g]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lead 212	1.63			pCi/g	16-Jun-05	0.28	0.18
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lead 214	1.11			pCi/g	16-Jun-05	0.27	0.17
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Polonium 210 [h]	1.5 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Polonium 212 [i]	0.86			pCi/g	16-Jun-05	0.48	0.53
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Polonium 214 [j]	1.26			pCi/g	16-Jun-05	0.31	0.21
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Polonium 215 [k]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Polonium 216 [l]	1.63			pCi/g	16-Jun-05	0.28	0.18
HDXHW1C8	Soil	BRC-BKG-03A-0-0.5	Polonium 218 [m]	1.18			pCi/g	16-Jun-05	0.15	0.133
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Potassium 40	25			pCi/g	16-Jun-05	3.8	1.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Protactinium 234	-0.11 U			pCi/g	16-Jun-05	0.18	0.3
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Radium 223 [n]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Radium 224 [o]	1.63			pCi/g	16-Jun-05	0.28	0.18
HDXHW1C8	Soil	BRC-BKG-03A-0-0.5	Radium 226	1.18			pCi/g	16-Jun-05	0.15	0.133
HDXHW1C9	Soil	BRC-BKG-03A-0-0.5	Radium 228	2.05			pCi/g	16-Jun-05	0.24	0.54
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thallium 207 [p]	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thallium 208	0.68			pCi/g	16-Jun-05	0.16	0.11
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 227	0.38 U			pCi/g	16-Jun-05	0.52	0.97
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 228	1.89			pCi/g	16-Jun-05	0.39	0.19
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 230	1.22			pCi/g	16-Jun-05	0.29	0.12
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 231	0.059 U			pCi/g	16-Jun-05	0.07	0.089
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 232	2.05			pCi/g	16-Jun-05	0.39	0.09
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thorium 234	-0.26 U			pCi/g	16-Jun-05	0.92	1.4
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Uranium 233/234	0.85 J	U	b	pCi/g	16-Jun-05	0.22	0.07
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Uranium 235	0.059 U			pCi/g	16-Jun-05	0.07	0.089
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Uranium 238	0.74 J	J	k	pCi/g	16-Jun-05	0.2	0.07
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Moisture (%)	0.54			percent	16-Jun-05		
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Aluminum	11400 N			mg/kg	16-Jun-05		2
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Antimony	0.23 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Arsenic	4.7			mg/kg	16-Jun-05		0.1278
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Barium	205			mg/kg	16-Jun-05		0.152
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Beryllium	0.57			mg/kg	16-Jun-05		0.038
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Boron	6.1	J+	b	mg/kg	16-Jun-05		3.2
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Calcium	19900 N			mg/kg	16-Jun-05		1.028
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Chromium	12			mg/kg	16-Jun-05		0.1841
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Cobalt	8.1 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Copper	17.8			mg/kg	16-Jun-05		0.2205
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Iron	13200 N			mg/kg	16-Jun-05		1.173
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lead	11			mg/kg	16-Jun-05		0.0506
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Lithium	14.5			mg/kg	16-Jun-05		0.2425
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Magnesium	12500			mg/kg	16-Jun-05		1.176
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Manganese	464 NE	J	j	mg/kg	16-Jun-05		0.0131

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Molybdenum	0.77 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Nickel	17.1 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Niobium	1.6 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Palladium	0.3			mg/kg	16-Jun-05		0.0765
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Phosphorus	1240 N			mg/kg	16-Jun-05		1.913
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Potassium	3140			mg/kg	16-Jun-05		2.079
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Selenium	0.3 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Silicon	2780 N			mg/kg	16-Jun-05		0.5289
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Sodium	155			mg/kg	16-Jun-05		7.567
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Strontium	145 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Thallium	0.96 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Tin	0.67 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Titanium	641 N			mg/kg	16-Jun-05		0.1175
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Tungsten	1.7 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Uranium	0.97 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Vanadium	40.6 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Zinc	38.9			mg/kg	16-Jun-05		0.2207
F5F180132021	Soil	BRC-BKG-03A-0-0.5	Zirconium	111			mg/kg	16-Jun-05		0.0874
F5F180132022	Soil	BRC-BKG-03A-3-7	Chloride	199			mg/kg	16-Jun-05		0.25
F5F180132022	Soil	BRC-BKG-03A-3-7	Fluoride	0.63 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132022	Soil	BRC-BKG-03A-3-7	Nitrate	26.1	J	h	mg/kg	16-Jun-05		0.1
F5F180132022	Soil	BRC-BKG-03A-3-7	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132022	Soil	BRC-BKG-03A-3-7	Sulfate	143			mg/kg	16-Jun-05		0.612
F5F180132022	Soil	BRC-BKG-03A-3-7	CEC	8.6			meq/100g	16-Jun-05		
F5F180132022	Soil	BRC-BKG-03A-3-7	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132022	Soil	BRC-BKG-03A-3-7	pH (solid)	8.5	J	h	none	16-Jun-05		
F5F180132022	Soil	BRC-BKG-03A-3-7	Actinium 227 [d]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Actinium 228	1.67			pCi/g	16-Jun-05	0.69	0.39
F5F180132022	Soil	BRC-BKG-03A-3-7	Bismuth 210 [e]	0.5 U			pCi/g	16-Jun-05	1.4	2.5
F5F180132022	Soil	BRC-BKG-03A-3-7	Bismuth 211 [f]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132022	Soil	BRC-BKG-03A-3-7	Bismuth 212	1.82			pCi/g	16-Jun-05	0.77	0.82
F5F180132022	Soil	BRC-BKG-03A-3-7	Bismuth 214	1.06			pCi/g	16-Jun-05	0.25	0.43
F5F180132022	Soil	BRC-BKG-03A-3-7	Cobalt 57	-0.01 U			pCi/g	16-Jun-05	0.033	0.057
F5F180132022	Soil	BRC-BKG-03A-3-7	Cobalt 60	-0.023 U			pCi/g	16-Jun-05	0.058	0.11
F5F180132022	Soil	BRC-BKG-03A-3-7	Lead 210	0.5 U			pCi/g	16-Jun-05	1.4	2.5
F5F180132022	Soil	BRC-BKG-03A-3-7	Lead 211 [g]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Lead 212	1.6			pCi/g	16-Jun-05	0.28	0.2
F5F180132022	Soil	BRC-BKG-03A-3-7	Lead 214	1.03			pCi/g	16-Jun-05	0.24	0.18
F5F180132022	Soil	BRC-BKG-03A-3-7	Polonium 210 [h]	0.5 U			pCi/g	16-Jun-05	1.4	2.5
F5F180132022	Soil	BRC-BKG-03A-3-7	Polonium 212 [i]	1.17			pCi/g	16-Jun-05	0.49	0.53
F5F180132022	Soil	BRC-BKG-03A-3-7	Polonium 214 [j]	1.06			pCi/g	16-Jun-05	0.24	0.21
F5F180132022	Soil	BRC-BKG-03A-3-7	Polonium 215 [k]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Polonium 216 [l]	1.6			pCi/g	16-Jun-05	0.28	0.2
HDXHX1C4	Soil	BRC-BKG-03A-3-7	Polonium 218 [m]	0.952 J	J	k, n	pCi/g	16-Jun-05	0.12	0.152
F5F180132022	Soil	BRC-BKG-03A-3-7	Potassium 40	30.4			pCi/g	16-Jun-05	4.4	1.1
F5F180132022	Soil	BRC-BKG-03A-3-7	Protactinium 234	-0.02 U			pCi/g	16-Jun-05	0.19	0.34
F5F180132022	Soil	BRC-BKG-03A-3-7	Radium 223 [n]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Radium 224 [o]	1.6			pCi/g	16-Jun-05	0.28	0.2
HDXHX1C4	Soil	BRC-BKG-03A-3-7	Radium 226	0.952 J	J	k, n	pCi/g	16-Jun-05	0.12	0.152
HDXHX1C5	Soil	BRC-BKG-03A-3-7	Radium 228	2.29			pCi/g	16-Jun-05	0.25	0.491
F5F180132022	Soil	BRC-BKG-03A-3-7	Thallium 207 [p]	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Thallium 208	0.6			pCi/g	16-Jun-05	0.16	0.12
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 227	-0.38 U			pCi/g	16-Jun-05	0.51	0.83
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 228	1.85			pCi/g	16-Jun-05	0.44	0.22
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 230	1.67			pCi/g	16-Jun-05	0.4	0.13
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 231	0.045 U			pCi/g	16-Jun-05	0.061	0.081
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 232	1.5			pCi/g	16-Jun-05	0.37	0.09
F5F180132022	Soil	BRC-BKG-03A-3-7	Thorium 234	1.64			pCi/g	16-Jun-05	0.58	1.2
F5F180132022	Soil	BRC-BKG-03A-3-7	Uranium 233/234	1.16	U	b	pCi/g	16-Jun-05	0.26	0.1
F5F180132022	Soil	BRC-BKG-03A-3-7	Uranium 235	0.045 U			pCi/g	16-Jun-05	0.061	0.081
F5F180132022	Soil	BRC-BKG-03A-3-7	Uranium 238	1.23			pCi/g	16-Jun-05	0.26	0.06
F5F180132022	Soil	BRC-BKG-03A-3-7	Moisture (%)	2.2			percent	16-Jun-05		
F5F180132022	Soil	BRC-BKG-03A-3-7	Aluminum	8990 N			mg/kg	16-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132022	Soil	BRC-BKG-03A-3-7	Antimony	0.35 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132022	Soil	BRC-BKG-03A-3-7	Arsenic	3.5			mg/kg	16-Jun-05		0.1278
F5F180132022	Soil	BRC-BKG-03A-3-7	Barium	221			mg/kg	16-Jun-05		0.152
F5F180132022	Soil	BRC-BKG-03A-3-7	Beryllium	0.44 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132022	Soil	BRC-BKG-03A-3-7	Boron	6.8	J+	b	mg/kg	16-Jun-05		3.2
F5F180132022	Soil	BRC-BKG-03A-3-7	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132022	Soil	BRC-BKG-03A-3-7	Calcium	23900 N			mg/kg	16-Jun-05		1.028
F5F180132022	Soil	BRC-BKG-03A-3-7	Chromium	6.4			mg/kg	16-Jun-05		0.1841
F5F180132022	Soil	BRC-BKG-03A-3-7	Cobalt	6.6 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132022	Soil	BRC-BKG-03A-3-7	Copper	24.2			mg/kg	16-Jun-05		0.2205
F5F180132022	Soil	BRC-BKG-03A-3-7	Iron	8890 N			mg/kg	16-Jun-05		1.173
F5F180132022	Soil	BRC-BKG-03A-3-7	Lead	5.7			mg/kg	16-Jun-05		0.0506
F5F180132022	Soil	BRC-BKG-03A-3-7	Lithium	11.5			mg/kg	16-Jun-05		0.2425
F5F180132022	Soil	BRC-BKG-03A-3-7	Magnesium	7590			mg/kg	16-Jun-05		1.176
F5F180132022	Soil	BRC-BKG-03A-3-7	Manganese	304 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132022	Soil	BRC-BKG-03A-3-7	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132022	Soil	BRC-BKG-03A-3-7	Molybdenum	0.76 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132022	Soil	BRC-BKG-03A-3-7	Nickel	13.2 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132022	Soil	BRC-BKG-03A-3-7	Niobium	1.7 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132022	Soil	BRC-BKG-03A-3-7	Palladium	0.58			mg/kg	16-Jun-05		0.0765
F5F180132022	Soil	BRC-BKG-03A-3-7	Phosphorus	1160 N			mg/kg	16-Jun-05		1.913
F5F180132022	Soil	BRC-BKG-03A-3-7	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132022	Soil	BRC-BKG-03A-3-7	Potassium	3260			mg/kg	16-Jun-05		2.079
F5F180132022	Soil	BRC-BKG-03A-3-7	Selenium	0.23 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132022	Soil	BRC-BKG-03A-3-7	Silicon	1230 N			mg/kg	16-Jun-05		0.5289
F5F180132022	Soil	BRC-BKG-03A-3-7	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132022	Soil	BRC-BKG-03A-3-7	Sodium	716			mg/kg	16-Jun-05		7.567
F5F180132022	Soil	BRC-BKG-03A-3-7	Strontium	294 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132022	Soil	BRC-BKG-03A-3-7	Thallium	0.28 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132022	Soil	BRC-BKG-03A-3-7	Tin	0.52 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132022	Soil	BRC-BKG-03A-3-7	Titanium	673 N			mg/kg	16-Jun-05		0.1175
F5F180132022	Soil	BRC-BKG-03A-3-7	Tungsten	2.2 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132022	Soil	BRC-BKG-03A-3-7	Uranium	0.99 B	J	g	mg/kg	16-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132022	Soil	BRC-BKG-03A-3-7	Vanadium	36.2 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132022	Soil	BRC-BKG-03A-3-7	Zinc	25.5			mg/kg	16-Jun-05		0.2207
F5F180132022	Soil	BRC-BKG-03A-3-7	Zirconium	112			mg/kg	16-Jun-05		0.0874
F5F180132024	Soil	BRC-BKG-03A-9-11	Chloride	404 J			mg/kg	16-Jun-05		0.25
F5F180132024	Soil	BRC-BKG-03A-9-11	Fluoride	1	U	b	mg/kg	16-Jun-05		0.051
F5F180132024	Soil	BRC-BKG-03A-9-11	Nitrate	14.9	J	h	mg/kg	16-Jun-05		0.1
F5F180132024	Soil	BRC-BKG-03A-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132024	Soil	BRC-BKG-03A-9-11	Sulfate	107			mg/kg	16-Jun-05		0.612
F5F180132024	Soil	BRC-BKG-03A-9-11	CEC	17.1			meq/100g	16-Jun-05		
F5F180132024	Soil	BRC-BKG-03A-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132024	Soil	BRC-BKG-03A-9-11	pH (solid)	8.6	J	h	none	16-Jun-05		
F5F180132024	Soil	BRC-BKG-03A-9-11	Actinium 227 [d]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Actinium 228	2			pCi/g	16-Jun-05	0.7	0.42
F5F180132024	Soil	BRC-BKG-03A-9-11	Bismuth 210 [e]	1.6 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132024	Soil	BRC-BKG-03A-9-11	Bismuth 211 [f]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Bismuth 212	1.69			pCi/g	16-Jun-05	0.67	0.73
F5F180132024	Soil	BRC-BKG-03A-9-11	Bismuth 214	1.04			pCi/g	16-Jun-05	0.27	0.46
F5F180132024	Soil	BRC-BKG-03A-9-11	Cobalt 57	0.011 U			pCi/g	16-Jun-05	0.033	0.058
F5F180132024	Soil	BRC-BKG-03A-9-11	Cobalt 60	0.049 U			pCi/g	16-Jun-05	0.063	0.14
F5F180132024	Soil	BRC-BKG-03A-9-11	Lead 210	1.6 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132024	Soil	BRC-BKG-03A-9-11	Lead 211 [g]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Lead 212	1.73			pCi/g	16-Jun-05	0.29	0.18
F5F180132024	Soil	BRC-BKG-03A-9-11	Lead 214	0.99			pCi/g	16-Jun-05	0.24	0.17
F5F180132024	Soil	BRC-BKG-03A-9-11	Polonium 210 [h]	1.6 U			pCi/g	16-Jun-05	1.3	2.6
F5F180132024	Soil	BRC-BKG-03A-9-11	Polonium 212 [i]	1.08			pCi/g	16-Jun-05	0.43	0.47
F5F180132024	Soil	BRC-BKG-03A-9-11	Polonium 214 [j]	1.04			pCi/g	16-Jun-05	0.26	0.17
F5F180132024	Soil	BRC-BKG-03A-9-11	Polonium 215 [k]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Polonium 216 [l]	1.73			pCi/g	16-Jun-05	0.29	0.18
HDXH11C5	Soil	BRC-BKG-03A-9-11	Polonium 218 [m]	1.22	J	n	pCi/g	16-Jun-05	0.15	0.185
F5F180132024	Soil	BRC-BKG-03A-9-11	Potassium 40	26			pCi/g	16-Jun-05	3.9	1.2
F5F180132024	Soil	BRC-BKG-03A-9-11	Protactinium 234	-0.03 U			pCi/g	16-Jun-05	0.18	0.31
F5F180132024	Soil	BRC-BKG-03A-9-11	Radium 223 [n]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Radium 224 [o]	1.73			pCi/g	16-Jun-05	0.29	0.18

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDXH11C5	Soil	BRC-BKG-03A-9-11	Radium 226	1.22	J	n	pCi/g	16-Jun-05	0.15	0.185
HDXH11C6	Soil	BRC-BKG-03A-9-11	Radium 228	1.75 J	J	k	pCi/g	16-Jun-05	0.21	0.489
F5F180132024	Soil	BRC-BKG-03A-9-11	Thallium 207 [p]	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Thallium 208	0.5			pCi/g	16-Jun-05	0.13	0.11
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 227	-0.19 U			pCi/g	16-Jun-05	0.45	0.76
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 228	1.81			pCi/g	16-Jun-05	0.48	0.25
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 230	1.5			pCi/g	16-Jun-05	0.41	0.12
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 231	0.077 J	U	b	pCi/g	16-Jun-05	0.076	0.042
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 232	2.1			pCi/g	16-Jun-05	0.5	0.09
F5F180132024	Soil	BRC-BKG-03A-9-11	Thorium 234	0.85 U			pCi/g	16-Jun-05	0.72	1.3
F5F180132024	Soil	BRC-BKG-03A-9-11	Uranium 233/234	1.56			pCi/g	16-Jun-05	0.32	0.08
F5F180132024	Soil	BRC-BKG-03A-9-11	Uranium 235	0.077 J	J	k	pCi/g	16-Jun-05	0.076	0.042
F5F180132024	Soil	BRC-BKG-03A-9-11	Uranium 238	1.39			pCi/g	16-Jun-05	0.3	0.07
F5F180132024	Soil	BRC-BKG-03A-9-11	Moisture (%)	2.2			percent	16-Jun-05		
F5F180132024	Soil	BRC-BKG-03A-9-11	Aluminum	5300 N			mg/kg	16-Jun-05		2
F5F180132024	Soil	BRC-BKG-03A-9-11	Antimony	0.12 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132024	Soil	BRC-BKG-03A-9-11	Arsenic	4.3			mg/kg	16-Jun-05		0.1278
F5F180132024	Soil	BRC-BKG-03A-9-11	Barium	136			mg/kg	16-Jun-05		0.152
F5F180132024	Soil	BRC-BKG-03A-9-11	Beryllium	0.44 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132024	Soil	BRC-BKG-03A-9-11	Boron	4.9 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132024	Soil	BRC-BKG-03A-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132024	Soil	BRC-BKG-03A-9-11	Calcium	29500 N			mg/kg	16-Jun-05		1.028
F5F180132024	Soil	BRC-BKG-03A-9-11	Chromium	6.2			mg/kg	16-Jun-05		0.1841
F5F180132024	Soil	BRC-BKG-03A-9-11	Cobalt	4.8 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132024	Soil	BRC-BKG-03A-9-11	Copper	14.6			mg/kg	16-Jun-05		0.2205
F5F180132024	Soil	BRC-BKG-03A-9-11	Iron	8100 N			mg/kg	16-Jun-05		1.173
F5F180132024	Soil	BRC-BKG-03A-9-11	Lead	4.8			mg/kg	16-Jun-05		0.0506
F5F180132024	Soil	BRC-BKG-03A-9-11	Lithium	11.8			mg/kg	16-Jun-05		0.2425
F5F180132024	Soil	BRC-BKG-03A-9-11	Magnesium	6320			mg/kg	16-Jun-05		1.176
F5F180132024	Soil	BRC-BKG-03A-9-11	Manganese	198 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132024	Soil	BRC-BKG-03A-9-11	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132024	Soil	BRC-BKG-03A-9-11	Molybdenum	0.55 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132024	Soil	BRC-BKG-03A-9-11	Nickel	9.7 E	J	j	mg/kg	16-Jun-05		0.1295

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132024	Soil	BRC-BKG-03A-9-11	Niobium	1.3 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132024	Soil	BRC-BKG-03A-9-11	Palladium	0.51			mg/kg	16-Jun-05		0.0765
F5F180132024	Soil	BRC-BKG-03A-9-11	Phosphorus	1260 N			mg/kg	16-Jun-05		1.913
F5F180132024	Soil	BRC-BKG-03A-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132024	Soil	BRC-BKG-03A-9-11	Potassium	1480			mg/kg	16-Jun-05		2.079
F5F180132024	Soil	BRC-BKG-03A-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132024	Soil	BRC-BKG-03A-9-11	Silicon	1180 N			mg/kg	16-Jun-05		0.5289
F5F180132024	Soil	BRC-BKG-03A-9-11	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132024	Soil	BRC-BKG-03A-9-11	Sodium	938			mg/kg	16-Jun-05		7.567
F5F180132024	Soil	BRC-BKG-03A-9-11	Strontium	240 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132024	Soil	BRC-BKG-03A-9-11	Thallium	0.24 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132024	Soil	BRC-BKG-03A-9-11	Tin	0.4 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132024	Soil	BRC-BKG-03A-9-11	Titanium	483 N			mg/kg	16-Jun-05		0.1175
F5F180132024	Soil	BRC-BKG-03A-9-11	Tungsten	1.2 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132024	Soil	BRC-BKG-03A-9-11	Uranium	0.9 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132024	Soil	BRC-BKG-03A-9-11	Vanadium	28.1 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132024	Soil	BRC-BKG-03A-9-11	Zinc	22.3			mg/kg	16-Jun-05		0.2207
F5F180132024	Soil	BRC-BKG-03A-9-11	Zirconium	112			mg/kg	16-Jun-05		0.0874
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Chloride	1.4 B J	U	b	mg/kg	16-Jun-05		0.25
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Nitrate	U	UJ	h	mg/kg	16-Jun-05		0.1
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Nitrite	0.21	J	h	mg/kg	16-Jun-05		0.061
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Sulfate	3.5 B	U	b	mg/kg	16-Jun-05		0.612
F5F180132025	Soil	BRC-BKG-03B-0-0.5	CEC	9.7			meq/100g	16-Jun-05		
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132025	Soil	BRC-BKG-03B-0-0.5	pH (solid)	8.7	J	h	none	16-Jun-05		
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Actinium 227 [d]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Actinium 228	1.37			pCi/g	16-Jun-05	0.62	0.43
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Bismuth 210 [e]	0.5 U			pCi/g	16-Jun-05	1.1	2
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Bismuth 211 [f]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Bismuth 212	1.66			pCi/g	16-Jun-05	0.66	0.83
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Bismuth 214	0.93			pCi/g	16-Jun-05	0.24	0.18
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Cobalt 57	-0.009 U			pCi/g	16-Jun-05	0.03	0.05

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Cobalt 60	-0.022 U			pCi/g	16-Jun-05	0.062	0.11
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lead 210	0.5 U			pCi/g	16-Jun-05	1.1	2
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lead 211 [g]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lead 212	1.73			pCi/g	16-Jun-05	0.25	0.13
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lead 214	0.85			pCi/g	16-Jun-05	0.23	0.16
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Polonium 210 [h]	0.5 U			pCi/g	16-Jun-05	1.1	2
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Polonium 212 [i]	1.06			pCi/g	16-Jun-05	0.42	0.53
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Polonium 214 [j]	0.93			pCi/g	16-Jun-05	0.24	0.18
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Polonium 215 [k]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Polonium 216 [l]	1.73			pCi/g	16-Jun-05	0.25	0.13
HDXH21C4	Soil	BRC-BKG-03B-0-0.5	Polonium 218 [m]	1.57			pCi/g	16-Jun-05	0.18	0.0856
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Potassium 40	24.4			pCi/g	16-Jun-05	3.6	0.8
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Protactinium 234	-0.21 U			pCi/g	16-Jun-05	0.15	0.25
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Radium 223 [n]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Radium 224 [o]	1.73			pCi/g	16-Jun-05	0.25	0.13
HDXH21C4	Soil	BRC-BKG-03B-0-0.5	Radium 226	1.57			pCi/g	16-Jun-05	0.18	0.0856
HDXH21C5	Soil	BRC-BKG-03B-0-0.5	Radium 228	2.35			pCi/g	16-Jun-05	0.25	0.505
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thallium 207 [p]	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thallium 208	0.48			pCi/g	16-Jun-05	0.13	0.09
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 227	0.27 U			pCi/g	16-Jun-05	0.45	0.82
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 228	1.52			pCi/g	16-Jun-05	0.35	0.17
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 230	0.99 J	J	k	pCi/g	16-Jun-05	0.26	0.09
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 231	0.03 U			pCi/g	16-Jun-05	0.052	0.041
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 232	1.77			pCi/g	16-Jun-05	0.36	0.08
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thorium 234	1.2			pCi/g	16-Jun-05	0.65	1.1
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Uranium 233/234	1.05	U	b	pCi/g	16-Jun-05	0.25	0.06
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Uranium 235	0.03 U			pCi/g	16-Jun-05	0.052	0.041
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Uranium 238	1.16			pCi/g	16-Jun-05	0.26	0.06
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Moisture (%)	0.58			percent	16-Jun-05		
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Aluminum	9570 N			mg/kg	16-Jun-05		2
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Antimony	0.32 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Arsenic	4.1			mg/kg	16-Jun-05		0.1278
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Barium	171			mg/kg	16-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Beryllium	0.57			mg/kg	16-Jun-05		0.038
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Boron	5.2	J+	b	mg/kg	16-Jun-05		3.2
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Calcium	19200 N			mg/kg	16-Jun-05		1.028
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Chromium	9			mg/kg	16-Jun-05		0.1841
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Cobalt	7.5 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Copper	17			mg/kg	16-Jun-05		0.2205
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Iron	12100 N			mg/kg	16-Jun-05		1.173
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lead	9.6			mg/kg	16-Jun-05		0.0506
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Lithium	13.4			mg/kg	16-Jun-05		0.2425
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Magnesium	9550			mg/kg	16-Jun-05		1.176
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Manganese	430 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Molybdenum	0.72 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Nickel	15 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Palladium	0.29			mg/kg	16-Jun-05		0.0765
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Phosphorus	1460 N			mg/kg	16-Jun-05		1.913
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Potassium	2970			mg/kg	16-Jun-05		2.079
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Selenium	0.33 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Silicon	2490 N			mg/kg	16-Jun-05		0.5289
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Sodium	152			mg/kg	16-Jun-05		7.567
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Strontium	144 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Thallium	0.43 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Tin	0.54 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Titanium	562 N			mg/kg	16-Jun-05		0.1175
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Tungsten	1.2 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Uranium	0.8 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Vanadium	34.5 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Zinc	35.8			mg/kg	16-Jun-05		0.2207
F5F180132025	Soil	BRC-BKG-03B-0-0.5	Zirconium	123			mg/kg	16-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132026	Soil	BRC-BKG-03B-4-6	Chloride	29.2 J			mg/kg	16-Jun-05		0.25
F5F180132026	Soil	BRC-BKG-03B-4-6	Fluoride	0.32 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132026	Soil	BRC-BKG-03B-4-6	Nitrate	0.66	J	h	mg/kg	16-Jun-05		0.1
F5F180132026	Soil	BRC-BKG-03B-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132026	Soil	BRC-BKG-03B-4-6	Sulfate	3240			mg/kg	16-Jun-05		0.612
F5F180132026	Soil	BRC-BKG-03B-4-6	CEC	12.3			meq/100g	16-Jun-05		
F5F180132026	Soil	BRC-BKG-03B-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132026	Soil	BRC-BKG-03B-4-6	pH (solid)	8.1	J	h	none	16-Jun-05		
F5F180132026	Soil	BRC-BKG-03B-4-6	Actinium 227 [d]	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Actinium 228	2.04			pCi/g	16-Jun-05	0.79	0.41
F5F180132026	Soil	BRC-BKG-03B-4-6	Bismuth 210 [e]	-0.3 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132026	Soil	BRC-BKG-03B-4-6	Bismuth 211 [f]	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Bismuth 212	1.41			pCi/g	16-Jun-05	0.59	1.2
F5F180132026	Soil	BRC-BKG-03B-4-6	Bismuth 214	0.97			pCi/g	16-Jun-05	0.28	0.44
F5F180132026	Soil	BRC-BKG-03B-4-6	Cobalt 57	-0.012 U			pCi/g	16-Jun-05	0.035	0.06
F5F180132026	Soil	BRC-BKG-03B-4-6	Cobalt 60	-0.034 U			pCi/g	16-Jun-05	0.057	0.098
F5F180132026	Soil	BRC-BKG-03B-4-6	Lead 210	-0.3 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132026	Soil	BRC-BKG-03B-4-6	Lead 211 [g]	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Lead 212	1.76			pCi/g	16-Jun-05	0.27	0.15
F5F180132026	Soil	BRC-BKG-03B-4-6	Lead 214	1.05			pCi/g	16-Jun-05	0.24	0.18
F5F180132026	Soil	BRC-BKG-03B-4-6	Polonium 210 [h]	-0.3 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132026	Soil	BRC-BKG-03B-4-6	Polonium 212 [i]	0.9			pCi/g	16-Jun-05	0.38	0.79
F5F180132026	Soil	BRC-BKG-03B-4-6	Polonium 214 [j]	0.97			pCi/g	16-Jun-05	0.28	0.19
F5F180132026	Soil	BRC-BKG-03B-4-6	Polonium 215 [k]	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Polonium 216 [l]	1.76			pCi/g	16-Jun-05	0.27	0.15
HDXH31DH	Soil	BRC-BKG-03B-4-6	Polonium 218 [m]	1.02			pCi/g	16-Jun-05	0.14	0.17
F5F180132026	Soil	BRC-BKG-03B-4-6	Potassium 40	26.5			pCi/g	16-Jun-05	3.9	0.6
F5F180132026	Soil	BRC-BKG-03B-4-6	Protactinium 234	-0.09 U			pCi/g	16-Jun-05	0.17	0.29
F5F180132026	Soil	BRC-BKG-03B-4-6	Radium 223 [n]	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Radium 224 [o]	1.76			pCi/g	16-Jun-05	0.27	0.15
HDXH31DH	Soil	BRC-BKG-03B-4-6	Radium 226	1.02			pCi/g	16-Jun-05	0.14	0.17
HDXH31DJ	Soil	BRC-BKG-03B-4-6	Radium 228	1.85 J	J	k	pCi/g	16-Jun-05	0.22	0.443
F5F180132026	Soil	BRC-BKG-03B-4-6	Thallium 207 [p]	0.02 U			pCi/g	16-Jun-05	0.51	0.88

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132026	Soil	BRC-BKG-03B-4-6	Thallium 208	0.57			pCi/g	16-Jun-05	0.14	0.12
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 227	0.02 U			pCi/g	16-Jun-05	0.51	0.88
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 228	1.93			pCi/g	16-Jun-05	0.35	0.1
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 230	1.11			pCi/g	16-Jun-05	0.25	0.05
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 231	0.13 J	U	b	pCi/g	16-Jun-05	0.1	0.1
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 232	1.53			pCi/g	16-Jun-05	0.31	0.07
F5F180132026	Soil	BRC-BKG-03B-4-6	Thorium 234	1.82			pCi/g	16-Jun-05	0.57	1
F5F180132026	Soil	BRC-BKG-03B-4-6	Uranium 233/234	1.23	J+	b	pCi/g	16-Jun-05	0.28	0.12
F5F180132026	Soil	BRC-BKG-03B-4-6	Uranium 235	0.13 J	J	k	pCi/g	16-Jun-05	0.1	0.1
F5F180132026	Soil	BRC-BKG-03B-4-6	Uranium 238	1.17			pCi/g	16-Jun-05	0.27	0.08
F5F180132026	Soil	BRC-BKG-03B-4-6	Moisture (%)	4.8			percent	16-Jun-05		
F5F180132026	Soil	BRC-BKG-03B-4-6	Aluminum	6730 N			mg/kg	16-Jun-05		2
F5F180132026	Soil	BRC-BKG-03B-4-6	Antimony	0.2 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132026	Soil	BRC-BKG-03B-4-6	Arsenic	4			mg/kg	16-Jun-05		0.1278
F5F180132026	Soil	BRC-BKG-03B-4-6	Barium	177			mg/kg	16-Jun-05		0.152
F5F180132026	Soil	BRC-BKG-03B-4-6	Beryllium	0.44 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132026	Soil	BRC-BKG-03B-4-6	Boron	8.3	J+	b	mg/kg	16-Jun-05		3.2
F5F180132026	Soil	BRC-BKG-03B-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132026	Soil	BRC-BKG-03B-4-6	Calcium	18100 N			mg/kg	16-Jun-05		1.028
F5F180132026	Soil	BRC-BKG-03B-4-6	Chromium	6.2			mg/kg	16-Jun-05		0.1841
F5F180132026	Soil	BRC-BKG-03B-4-6	Cobalt	6 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132026	Soil	BRC-BKG-03B-4-6	Copper	14.4			mg/kg	16-Jun-05		0.2205
F5F180132026	Soil	BRC-BKG-03B-4-6	Iron	9780 N			mg/kg	16-Jun-05		1.173
F5F180132026	Soil	BRC-BKG-03B-4-6	Lead	6			mg/kg	16-Jun-05		0.0506
F5F180132026	Soil	BRC-BKG-03B-4-6	Lithium	12.1			mg/kg	16-Jun-05		0.2425
F5F180132026	Soil	BRC-BKG-03B-4-6	Magnesium	6280			mg/kg	16-Jun-05		1.176
F5F180132026	Soil	BRC-BKG-03B-4-6	Manganese	270 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132026	Soil	BRC-BKG-03B-4-6	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132026	Soil	BRC-BKG-03B-4-6	Molybdenum	0.62 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132026	Soil	BRC-BKG-03B-4-6	Nickel	10.6 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132026	Soil	BRC-BKG-03B-4-6	Niobium	1.3 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132026	Soil	BRC-BKG-03B-4-6	Palladium	0.46			mg/kg	16-Jun-05		0.0765
F5F180132026	Soil	BRC-BKG-03B-4-6	Phosphorus	1110 N			mg/kg	16-Jun-05		1.913

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132026	Soil	BRC-BKG-03B-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132026	Soil	BRC-BKG-03B-4-6	Potassium	2390			mg/kg	16-Jun-05		2.079
F5F180132026	Soil	BRC-BKG-03B-4-6	Selenium	0.39 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132026	Soil	BRC-BKG-03B-4-6	Silicon	782 N			mg/kg	16-Jun-05		0.5289
F5F180132026	Soil	BRC-BKG-03B-4-6	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132026	Soil	BRC-BKG-03B-4-6	Sodium	796			mg/kg	16-Jun-05		7.567
F5F180132026	Soil	BRC-BKG-03B-4-6	Strontium	219 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132026	Soil	BRC-BKG-03B-4-6	Thallium	0.59 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132026	Soil	BRC-BKG-03B-4-6	Tin	0.4 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132026	Soil	BRC-BKG-03B-4-6	Titanium	531 N			mg/kg	16-Jun-05		0.1175
F5F180132026	Soil	BRC-BKG-03B-4-6	Tungsten	1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132026	Soil	BRC-BKG-03B-4-6	Uranium	0.8 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132026	Soil	BRC-BKG-03B-4-6	Vanadium	34.1 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132026	Soil	BRC-BKG-03B-4-6	Zinc	25.8			mg/kg	16-Jun-05		0.2207
F5F180132026	Soil	BRC-BKG-03B-4-6	Zirconium	108			mg/kg	16-Jun-05		0.0874
F5F180132027	Soil	BRC-BKG-03B-9-11	Chloride	763 J			mg/kg	16-Jun-05		0.25
F5F180132027	Soil	BRC-BKG-03B-9-11	Fluoride	0.23 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132027	Soil	BRC-BKG-03B-9-11	Nitrate	2.9	J	h	mg/kg	16-Jun-05		0.1
F5F180132027	Soil	BRC-BKG-03B-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132027	Soil	BRC-BKG-03B-9-11	Sulfate	4130			mg/kg	16-Jun-05		0.612
F5F180132027	Soil	BRC-BKG-03B-9-11	CEC	16.1			meq/100g	16-Jun-05		
F5F180132027	Soil	BRC-BKG-03B-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132027	Soil	BRC-BKG-03B-9-11	pH (solid)	8	J	h	none	16-Jun-05		
F5F180132027	Soil	BRC-BKG-03B-9-11	Actinium 227 [d]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Actinium 228	1.51			pCi/g	16-Jun-05	0.58	0.29
F5F180132027	Soil	BRC-BKG-03B-9-11	Bismuth 210 [e]	0.3 U			pCi/g	16-Jun-05	1	1.9
F5F180132027	Soil	BRC-BKG-03B-9-11	Bismuth 211 [f]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Bismuth 212	0.75 U			pCi/g	16-Jun-05	0.43	0.9
F5F180132027	Soil	BRC-BKG-03B-9-11	Bismuth 214	1.09			pCi/g	16-Jun-05	0.24	0.4
F5F180132027	Soil	BRC-BKG-03B-9-11	Cobalt 57	-0.002 U			pCi/g	16-Jun-05	0.028	0.046
F5F180132027	Soil	BRC-BKG-03B-9-11	Cobalt 60	0.002 U			pCi/g	16-Jun-05	0.058	0.11
F5F180132027	Soil	BRC-BKG-03B-9-11	Lead 210	0.3 U			pCi/g	16-Jun-05	1	1.9
F5F180132027	Soil	BRC-BKG-03B-9-11	Lead 211 [g]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132027	Soil	BRC-BKG-03B-9-11	Lead 212	1.43			pCi/g	16-Jun-05	0.25	0.17
F5F180132027	Soil	BRC-BKG-03B-9-11	Lead 214	1.14			pCi/g	16-Jun-05	0.22	0.14
F5F180132027	Soil	BRC-BKG-03B-9-11	Polonium 210 [h]	0.3 U			pCi/g	16-Jun-05	1	1.9
F5F180132027	Soil	BRC-BKG-03B-9-11	Polonium 212 [i]	0.48 U			pCi/g	16-Jun-05	0.28	0.58
F5F180132027	Soil	BRC-BKG-03B-9-11	Polonium 214 [j]	1.09			pCi/g	16-Jun-05	0.24	0.14
F5F180132027	Soil	BRC-BKG-03B-9-11	Polonium 215 [k]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Polonium 216 [l]	1.43			pCi/g	16-Jun-05	0.25	0.17
HDXH41C5	Soil	BRC-BKG-03B-9-11	Polonium 218 [m]	1.23			pCi/g	16-Jun-05	0.15	0.0909
F5F180132027	Soil	BRC-BKG-03B-9-11	Potassium 40	21			pCi/g	16-Jun-05	3.1	5
F5F180132027	Soil	BRC-BKG-03B-9-11	Protactinium 234	-0.01 U			pCi/g	16-Jun-05	0.15	0.26
F5F180132027	Soil	BRC-BKG-03B-9-11	Radium 223 [n]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Radium 224 [o]	1.43			pCi/g	16-Jun-05	0.25	0.17
HDXH41C5	Soil	BRC-BKG-03B-9-11	Radium 226	1.23			pCi/g	16-Jun-05	0.15	0.0909
HDXH41C6	Soil	BRC-BKG-03B-9-11	Radium 228	4.15	R	e	pCi/g	16-Jun-05	0.38	0.737
F5F180132027	Soil	BRC-BKG-03B-9-11	Thallium 207 [p]	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Thallium 208	0.49			pCi/g	16-Jun-05	0.13	0.09
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 227	-0.16 U			pCi/g	16-Jun-05	0.37	0.63
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 228	1.47			pCi/g	16-Jun-05	0.35	0.27
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 230	1.57			pCi/g	16-Jun-05	0.32	0.11
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 231	0.099 J	U	b	pCi/g	16-Jun-05	0.088	0.094
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 232	1.52			pCi/g	16-Jun-05	0.31	0.09
F5F180132027	Soil	BRC-BKG-03B-9-11	Thorium 234	1.57			pCi/g	16-Jun-05	0.67	1.1
F5F180132027	Soil	BRC-BKG-03B-9-11	Uranium 233/234	1.84			pCi/g	16-Jun-05	0.34	0.1
F5F180132027	Soil	BRC-BKG-03B-9-11	Uranium 235	0.099 J	J	k	pCi/g	16-Jun-05	0.088	0.094
F5F180132027	Soil	BRC-BKG-03B-9-11	Uranium 238	1.46			pCi/g	16-Jun-05	0.3	0.09
F5F180132027	Soil	BRC-BKG-03B-9-11	Moisture (%)	3.3			percent	16-Jun-05		
F5F180132027	Soil	BRC-BKG-03B-9-11	Aluminum	6100 N			mg/kg	16-Jun-05		2
F5F180132027	Soil	BRC-BKG-03B-9-11	Antimony	0.15 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132027	Soil	BRC-BKG-03B-9-11	Arsenic	5.7			mg/kg	16-Jun-05		0.1278
F5F180132027	Soil	BRC-BKG-03B-9-11	Barium	135			mg/kg	16-Jun-05		0.152
F5F180132027	Soil	BRC-BKG-03B-9-11	Beryllium	0.41 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132027	Soil	BRC-BKG-03B-9-11	Boron	7.7	J+	b	mg/kg	16-Jun-05		3.2
F5F180132027	Soil	BRC-BKG-03B-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132027	Soil	BRC-BKG-03B-9-11	Calcium	44800 N			mg/kg	16-Jun-05		1.028
F5F180132027	Soil	BRC-BKG-03B-9-11	Chromium	5.8			mg/kg	16-Jun-05		0.1841
F5F180132027	Soil	BRC-BKG-03B-9-11	Cobalt	4.4 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132027	Soil	BRC-BKG-03B-9-11	Copper	12.8			mg/kg	16-Jun-05		0.2205
F5F180132027	Soil	BRC-BKG-03B-9-11	Iron	7400 N			mg/kg	16-Jun-05		1.173
F5F180132027	Soil	BRC-BKG-03B-9-11	Lead	4.2			mg/kg	16-Jun-05		0.0506
F5F180132027	Soil	BRC-BKG-03B-9-11	Lithium	16.5			mg/kg	16-Jun-05		0.2425
F5F180132027	Soil	BRC-BKG-03B-9-11	Magnesium	10400			mg/kg	16-Jun-05		1.176
F5F180132027	Soil	BRC-BKG-03B-9-11	Manganese	191 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132027	Soil	BRC-BKG-03B-9-11	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132027	Soil	BRC-BKG-03B-9-11	Molybdenum	0.78 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132027	Soil	BRC-BKG-03B-9-11	Nickel	10.1 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132027	Soil	BRC-BKG-03B-9-11	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132027	Soil	BRC-BKG-03B-9-11	Palladium	0.99			mg/kg	16-Jun-05		0.0765
F5F180132027	Soil	BRC-BKG-03B-9-11	Phosphorus	1050 N			mg/kg	16-Jun-05		1.913
F5F180132027	Soil	BRC-BKG-03B-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132027	Soil	BRC-BKG-03B-9-11	Potassium	1780			mg/kg	16-Jun-05		2.079
F5F180132027	Soil	BRC-BKG-03B-9-11	Selenium	0.27 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132027	Soil	BRC-BKG-03B-9-11	Silicon	683 N			mg/kg	16-Jun-05		0.5289
F5F180132027	Soil	BRC-BKG-03B-9-11	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132027	Soil	BRC-BKG-03B-9-11	Sodium	1190			mg/kg	16-Jun-05		7.567
F5F180132027	Soil	BRC-BKG-03B-9-11	Strontium	567 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132027	Soil	BRC-BKG-03B-9-11	Thallium	0.21 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132027	Soil	BRC-BKG-03B-9-11	Tin	0.4 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132027	Soil	BRC-BKG-03B-9-11	Titanium	448 N			mg/kg	16-Jun-05		0.1175
F5F180132027	Soil	BRC-BKG-03B-9-11	Tungsten	1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132027	Soil	BRC-BKG-03B-9-11	Uranium	1.1			mg/kg	16-Jun-05		0.038
F5F180132027	Soil	BRC-BKG-03B-9-11	Vanadium	28.3 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132027	Soil	BRC-BKG-03B-9-11	Zinc	20.4			mg/kg	16-Jun-05		0.2207
F5F180132027	Soil	BRC-BKG-03B-9-11	Zirconium	102			mg/kg	16-Jun-05		0.0874
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Chloride	1.7 B J	U	b	mg/kg	16-Jun-05		0.25
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Nitrate	U	UJ	h	mg/kg	16-Jun-05		0.1

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Sulfate	4.4 B	U	b	mg/kg	16-Jun-05		0.612
F5F180132028	Soil	BRC-BKG-03C-0-0.5	CEC	7.3			meq/100g	16-Jun-05		
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132028	Soil	BRC-BKG-03C-0-0.5	pH (solid)	8.1	J	h	none	16-Jun-05		
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Actinium 227 [d]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Actinium 228	2.05			pCi/g	16-Jun-05	0.76	0.38
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Bismuth 210 [e]	2 U			pCi/g	16-Jun-05	1.4	2.8
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Bismuth 211 [f]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Bismuth 212	0.61 U			pCi/g	16-Jun-05	0.55	1.1
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Bismuth 214	0.93			pCi/g	16-Jun-05	0.27	0.47
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Cobalt 57	0.025 U			pCi/g	16-Jun-05	0.036	0.066
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Cobalt 60	0.014 U			pCi/g	16-Jun-05	0.054	0.11
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lead 210	2 U			pCi/g	16-Jun-05	1.4	2.8
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lead 211 [g]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lead 212	1.93			pCi/g	16-Jun-05	0.33	0.19
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lead 214	1.12			pCi/g	16-Jun-05	0.22	0.18
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Polonium 210 [h]	2 U			pCi/g	16-Jun-05	1.4	2.8
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Polonium 212 [i]	0.39 U			pCi/g	16-Jun-05	0.35	0.71
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Polonium 214 [j]	0.93			pCi/g	16-Jun-05	0.27	0.17
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Polonium 215 [k]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Polonium 216 [l]	1.93			pCi/g	16-Jun-05	0.33	0.19
HDXH51C4	Soil	BRC-BKG-03C-0-0.5	Polonium 218 [m]	1.26			pCi/g	16-Jun-05	0.17	0.201
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Potassium 40	23.7			pCi/g	16-Jun-05	3.9	1.3
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Protactinium 234	0.09 U			pCi/g	16-Jun-05	0.2	0.31
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Radium 223 [n]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Radium 224 [o]	1.93			pCi/g	16-Jun-05	0.33	0.19
HDXH51C4	Soil	BRC-BKG-03C-0-0.5	Radium 226	1.26			pCi/g	16-Jun-05	0.17	0.201
HDXH51C5	Soil	BRC-BKG-03C-0-0.5	Radium 228	4.67	R	e	pCi/g	16-Jun-05	0.39	0.656
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thallium 207 [p]	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thallium 208	0.67			pCi/g	16-Jun-05	0.15	0.11
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 227	0.13 U			pCi/g	16-Jun-05	0.48	0.87
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 228	2.09			pCi/g	16-Jun-05	0.48	0.35

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 230	1.55			pCi/g	16-Jun-05	0.35	0.13
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 231	0.098 J	U	b	pCi/g	16-Jun-05	0.085	0.072
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 232	2.09			pCi/g	16-Jun-05	0.41	0.08
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thorium 234	1 U			pCi/g	16-Jun-05	1.2	1.4
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Uranium 233/234	0.84 J	U	b	pCi/g	16-Jun-05	0.23	0.09
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Uranium 235	0.098 J	J	k	pCi/g	16-Jun-05	0.085	0.072
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Uranium 238	0.83 J	J	k	pCi/g	16-Jun-05	0.23	0.04
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Moisture (%)	1.2			percent	16-Jun-05		
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Aluminum	12800 N			mg/kg	16-Jun-05		2
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Antimony	0.2 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Arsenic	4.9			mg/kg	16-Jun-05		0.1278
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Barium	215			mg/kg	16-Jun-05		0.152
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Beryllium	0.84			mg/kg	16-Jun-05		0.038
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Boron	5.3	J+	b	mg/kg	16-Jun-05		3.2
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Calcium	11200 N			mg/kg	16-Jun-05		1.028
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Chromium	12.8			mg/kg	16-Jun-05		0.1841
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Cobalt	9.3 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Copper	18.7			mg/kg	16-Jun-05		0.2205
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Iron	15500 N			mg/kg	16-Jun-05		1.173
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lead	11.9			mg/kg	16-Jun-05		0.0506
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Lithium	17.3			mg/kg	16-Jun-05		0.2425
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Magnesium	9240			mg/kg	16-Jun-05		1.176
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Manganese	495 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Molybdenum	0.7 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Nickel	17.6 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Palladium	0.27			mg/kg	16-Jun-05		0.0765
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Phosphorus	1300 N			mg/kg	16-Jun-05		1.913
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Potassium	3890			mg/kg	16-Jun-05		2.079
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Selenium	0.34 B	J	g	mg/kg	16-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Silicon	3740 N			mg/kg	16-Jun-05		0.5289
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Sodium	160			mg/kg	16-Jun-05		7.567
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Strontium	127 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Thallium	0.63 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Tin	0.66 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Titanium	558 N			mg/kg	16-Jun-05		0.1175
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Tungsten	0.95 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Uranium	0.86 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Vanadium	35.5 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Zinc	48.2			mg/kg	16-Jun-05		0.2207
F5F180132028	Soil	BRC-BKG-03C-0-0.5	Zirconium	133			mg/kg	16-Jun-05		0.0874
F5F180132029	Soil	BRC-BKG-03C-4-6	Chloride	643 J			mg/kg	16-Jun-05		0.25
F5F180132029	Soil	BRC-BKG-03C-4-6	Fluoride	0.29 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132029	Soil	BRC-BKG-03C-4-6	Nitrate	86.2	J	h	mg/kg	16-Jun-05		0.1
F5F180132029	Soil	BRC-BKG-03C-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132029	Soil	BRC-BKG-03C-4-6	Sulfate	125			mg/kg	16-Jun-05		0.612
F5F180132029	Soil	BRC-BKG-03C-4-6	CEC	9			meq/100g	16-Jun-05		
F5F180132029	Soil	BRC-BKG-03C-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132029	Soil	BRC-BKG-03C-4-6	pH (solid)	8.1	J	h	none	16-Jun-05		
F5F180132029	Soil	BRC-BKG-03C-4-6	Actinium 227 [d]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Actinium 228	1.71			pCi/g	16-Jun-05	0.66	0.39
F5F180132029	Soil	BRC-BKG-03C-4-6	Bismuth 210 [e]	0.1 U			pCi/g	16-Jun-05	1.1	2
F5F180132029	Soil	BRC-BKG-03C-4-6	Bismuth 211 [f]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Bismuth 212	0.79			pCi/g	16-Jun-05	0.47	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Bismuth 214	0.9			pCi/g	16-Jun-05	0.22	0.36
F5F180132029	Soil	BRC-BKG-03C-4-6	Cobalt 57	-0.025 U			pCi/g	16-Jun-05	0.031	0.049
F5F180132029	Soil	BRC-BKG-03C-4-6	Cobalt 60	-0.054 U			pCi/g	16-Jun-05	0.055	0.085
F5F180132029	Soil	BRC-BKG-03C-4-6	Lead 210	0.1 U			pCi/g	16-Jun-05	1.1	2
F5F180132029	Soil	BRC-BKG-03C-4-6	Lead 211 [g]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Lead 212	1.61			pCi/g	16-Jun-05	0.24	0.12
F5F180132029	Soil	BRC-BKG-03C-4-6	Lead 214	0.88			pCi/g	16-Jun-05	0.19	0.16
F5F180132029	Soil	BRC-BKG-03C-4-6	Polonium 210 [h]	0.1 U			pCi/g	16-Jun-05	1.1	2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132029	Soil	BRC-BKG-03C-4-6	Polonium 212 [i]	0.51			pCi/g	16-Jun-05	0.3	0.48
F5F180132029	Soil	BRC-BKG-03C-4-6	Polonium 214 [j]	0.9			pCi/g	16-Jun-05	0.22	0.17
F5F180132029	Soil	BRC-BKG-03C-4-6	Polonium 215 [k]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Polonium 216 [l]	1.61			pCi/g	16-Jun-05	0.24	0.12
HDXH61C4	Soil	BRC-BKG-03C-4-6	Polonium 218 [m]	1.09			pCi/g	16-Jun-05	0.14	0.0841
F5F180132029	Soil	BRC-BKG-03C-4-6	Potassium 40	26			pCi/g	16-Jun-05	3.8	0.6
F5F180132029	Soil	BRC-BKG-03C-4-6	Protactinium 234	-0.14 U			pCi/g	16-Jun-05	0.15	0.25
F5F180132029	Soil	BRC-BKG-03C-4-6	Radium 223 [n]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Radium 224 [o]	1.61			pCi/g	16-Jun-05	0.24	0.12
HDXH61C4	Soil	BRC-BKG-03C-4-6	Radium 226	1.09			pCi/g	16-Jun-05	0.14	0.0841
HDXH61C5	Soil	BRC-BKG-03C-4-6	Radium 228	6.42	R	e	pCi/g	16-Jun-05	0.55	0.999
F5F180132029	Soil	BRC-BKG-03C-4-6	Thallium 207 [p]	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Thallium 208	0.53			pCi/g	16-Jun-05	0.13	0.08
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 227	0.13 U			pCi/g	16-Jun-05	0.43	0.76
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 228	2.14			pCi/g	16-Jun-05	0.47	0.24
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 230	1.7			pCi/g	16-Jun-05	0.39	0.11
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 231	0.0009 U			pCi/g	16-Jun-05	0.041	0.091
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 232	1.97			pCi/g	16-Jun-05	0.43	0.07
F5F180132029	Soil	BRC-BKG-03C-4-6	Thorium 234	0.46 U			pCi/g	16-Jun-05	0.62	1.1
F5F180132029	Soil	BRC-BKG-03C-4-6	Uranium 233/234	1.07	U	b	pCi/g	16-Jun-05	0.26	0.12
F5F180132029	Soil	BRC-BKG-03C-4-6	Uranium 235	0.0009 U			pCi/g	16-Jun-05	0.041	0.091
F5F180132029	Soil	BRC-BKG-03C-4-6	Uranium 238	0.98 J	J	k	pCi/g	16-Jun-05	0.24	0.08
F5F180132029	Soil	BRC-BKG-03C-4-6	Moisture (%)	3.7			percent	16-Jun-05		
F5F180132029	Soil	BRC-BKG-03C-4-6	Aluminum	7320 N			mg/kg	16-Jun-05		2
F5F180132029	Soil	BRC-BKG-03C-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132029	Soil	BRC-BKG-03C-4-6	Arsenic	3.5			mg/kg	16-Jun-05		0.1278
F5F180132029	Soil	BRC-BKG-03C-4-6	Barium	217			mg/kg	16-Jun-05		0.152
F5F180132029	Soil	BRC-BKG-03C-4-6	Beryllium	0.5 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132029	Soil	BRC-BKG-03C-4-6	Boron	4.8 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132029	Soil	BRC-BKG-03C-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132029	Soil	BRC-BKG-03C-4-6	Calcium	17300 N			mg/kg	16-Jun-05		1.028
F5F180132029	Soil	BRC-BKG-03C-4-6	Chromium	5			mg/kg	16-Jun-05		0.1841
F5F180132029	Soil	BRC-BKG-03C-4-6	Cobalt	6.2 E	J	j	mg/kg	16-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132029	Soil	BRC-BKG-03C-4-6	Copper	15.4			mg/kg	16-Jun-05		0.2205
F5F180132029	Soil	BRC-BKG-03C-4-6	Iron	8940 N			mg/kg	16-Jun-05		1.173
F5F180132029	Soil	BRC-BKG-03C-4-6	Lead	6.5			mg/kg	16-Jun-05		0.0506
F5F180132029	Soil	BRC-BKG-03C-4-6	Lithium	10.9			mg/kg	16-Jun-05		0.2425
F5F180132029	Soil	BRC-BKG-03C-4-6	Magnesium	5830			mg/kg	16-Jun-05		1.176
F5F180132029	Soil	BRC-BKG-03C-4-6	Manganese	321 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132029	Soil	BRC-BKG-03C-4-6	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132029	Soil	BRC-BKG-03C-4-6	Molybdenum	0.58 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132029	Soil	BRC-BKG-03C-4-6	Nickel	11.6 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132029	Soil	BRC-BKG-03C-4-6	Niobium	2.1 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132029	Soil	BRC-BKG-03C-4-6	Palladium	0.45			mg/kg	16-Jun-05		0.0765
F5F180132029	Soil	BRC-BKG-03C-4-6	Phosphorus	1540 N			mg/kg	16-Jun-05		1.913
F5F180132029	Soil	BRC-BKG-03C-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132029	Soil	BRC-BKG-03C-4-6	Potassium	2520			mg/kg	16-Jun-05		2.079
F5F180132029	Soil	BRC-BKG-03C-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132029	Soil	BRC-BKG-03C-4-6	Silicon	722 N			mg/kg	16-Jun-05		0.5289
F5F180132029	Soil	BRC-BKG-03C-4-6	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132029	Soil	BRC-BKG-03C-4-6	Sodium	821			mg/kg	16-Jun-05		7.567
F5F180132029	Soil	BRC-BKG-03C-4-6	Strontium	230 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132029	Soil	BRC-BKG-03C-4-6	Thallium	0.59 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132029	Soil	BRC-BKG-03C-4-6	Tin	0.44 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132029	Soil	BRC-BKG-03C-4-6	Titanium	539 N			mg/kg	16-Jun-05		0.1175
F5F180132029	Soil	BRC-BKG-03C-4-6	Tungsten	1.8 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132029	Soil	BRC-BKG-03C-4-6	Uranium	0.78 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132029	Soil	BRC-BKG-03C-4-6	Vanadium	31.1 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132029	Soil	BRC-BKG-03C-4-6	Zinc	24.5			mg/kg	16-Jun-05		0.2207
F5F180132029	Soil	BRC-BKG-03C-4-6	Zirconium	124			mg/kg	16-Jun-05		0.0874
F5F180132030	Soil	BRC-BKG-03C-9-11	Chloride	1110 J			mg/kg	16-Jun-05		0.25
F5F180132030	Soil	BRC-BKG-03C-9-11	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132030	Soil	BRC-BKG-03C-9-11	Nitrate	28.1	J	h	mg/kg	16-Jun-05		0.1
F5F180132030	Soil	BRC-BKG-03C-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132030	Soil	BRC-BKG-03C-9-11	Sulfate	1440			mg/kg	16-Jun-05		0.612
F5F180132030	Soil	BRC-BKG-03C-9-11	CEC	13.7			meq/100g	16-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132030	Soil	BRC-BKG-03C-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132030	Soil	BRC-BKG-03C-9-11	pH (solid)	8	J	h	none	16-Jun-05		
F5F180132030	Soil	BRC-BKG-03C-9-11	Actinium 227 [d]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Actinium 228	1.71			pCi/g	16-Jun-05	0.66	0.42
F5F180132030	Soil	BRC-BKG-03C-9-11	Bismuth 210 [e]	1.1 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132030	Soil	BRC-BKG-03C-9-11	Bismuth 211 [f]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Bismuth 212	1.59			pCi/g	16-Jun-05	0.58	0.73
F5F180132030	Soil	BRC-BKG-03C-9-11	Bismuth 214	1.24			pCi/g	16-Jun-05	0.28	0.2
F5F180132030	Soil	BRC-BKG-03C-9-11	Cobalt 57	0.001 U			pCi/g	16-Jun-05	0.033	0.059
F5F180132030	Soil	BRC-BKG-03C-9-11	Cobalt 60	0.009 U			pCi/g	16-Jun-05	0.06	0.12
F5F180132030	Soil	BRC-BKG-03C-9-11	Lead 210	1.1 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132030	Soil	BRC-BKG-03C-9-11	Lead 211 [g]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Lead 212	1.64			pCi/g	16-Jun-05	0.25	0.14
F5F180132030	Soil	BRC-BKG-03C-9-11	Lead 214	1.62			pCi/g	16-Jun-05	0.31	0.17
F5F180132030	Soil	BRC-BKG-03C-9-11	Polonium 210 [h]	1.1 U			pCi/g	16-Jun-05	1.3	2.3
F5F180132030	Soil	BRC-BKG-03C-9-11	Polonium 212 [i]	1.02			pCi/g	16-Jun-05	0.37	0.47
F5F180132030	Soil	BRC-BKG-03C-9-11	Polonium 214 [j]	1.24			pCi/g	16-Jun-05	0.28	0.2
F5F180132030	Soil	BRC-BKG-03C-9-11	Polonium 215 [k]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Polonium 216 [l]	1.64			pCi/g	16-Jun-05	0.25	0.14
HDXH71C4	Soil	BRC-BKG-03C-9-11	Polonium 218 [m]	1.32			pCi/g	16-Jun-05	0.17	0.122
F5F180132030	Soil	BRC-BKG-03C-9-11	Potassium 40	22.6			pCi/g	16-Jun-05	3.6	1
F5F180132030	Soil	BRC-BKG-03C-9-11	Protactinium 234	-0.05 U			pCi/g	16-Jun-05	0.17	0.29
F5F180132030	Soil	BRC-BKG-03C-9-11	Radium 223 [n]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Radium 224 [o]	1.64			pCi/g	16-Jun-05	0.25	0.14
HDXH71C4	Soil	BRC-BKG-03C-9-11	Radium 226	1.32			pCi/g	16-Jun-05	0.17	0.122
HDXH71C5	Soil	BRC-BKG-03C-9-11	Radium 228	3.1	R	e	pCi/g	16-Jun-05	0.3	0.654
F5F180132030	Soil	BRC-BKG-03C-9-11	Thallium 207 [p]	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Thallium 208	0.52			pCi/g	16-Jun-05	0.13	0.09
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 227	-0.27 U			pCi/g	16-Jun-05	0.48	0.78
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 228	1.38			pCi/g	16-Jun-05	0.36	0.31
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 230	2.24			pCi/g	16-Jun-05	0.4	0.11
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 231	0.13 J	U	b	pCi/g	16-Jun-05	0.1	0.1
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 232	1.38			pCi/g	16-Jun-05	0.3	0.07

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132030	Soil	BRC-BKG-03C-9-11	Thorium 234	1.05 U			pCi/g	16-Jun-05	0.48	1.1
F5F180132030	Soil	BRC-BKG-03C-9-11	Uranium 233/234	2.3			pCi/g	16-Jun-05	0.41	0.08
F5F180132030	Soil	BRC-BKG-03C-9-11	Uranium 235	0.13 J	J	k	pCi/g	16-Jun-05	0.1	0.1
F5F180132030	Soil	BRC-BKG-03C-9-11	Uranium 238	1.95			pCi/g	16-Jun-05	0.37	0.07
F5F180132030	Soil	BRC-BKG-03C-9-11	Moisture (%)	4.4			percent	16-Jun-05		
F5F180132030	Soil	BRC-BKG-03C-9-11	Aluminum	6310 N			mg/kg	16-Jun-05		2
F5F180132030	Soil	BRC-BKG-03C-9-11	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132030	Soil	BRC-BKG-03C-9-11	Arsenic	6			mg/kg	16-Jun-05		0.1278
F5F180132030	Soil	BRC-BKG-03C-9-11	Barium	175			mg/kg	16-Jun-05		0.152
F5F180132030	Soil	BRC-BKG-03C-9-11	Beryllium	0.41 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132030	Soil	BRC-BKG-03C-9-11	Boron	8.6	J+	b	mg/kg	16-Jun-05		3.2
F5F180132030	Soil	BRC-BKG-03C-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132030	Soil	BRC-BKG-03C-9-11	Calcium	51900 N			mg/kg	16-Jun-05		1.028
F5F180132030	Soil	BRC-BKG-03C-9-11	Chromium	4.4			mg/kg	16-Jun-05		0.1841
F5F180132030	Soil	BRC-BKG-03C-9-11	Cobalt	4.7 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132030	Soil	BRC-BKG-03C-9-11	Copper	14.6			mg/kg	16-Jun-05		0.2205
F5F180132030	Soil	BRC-BKG-03C-9-11	Iron	6570 N			mg/kg	16-Jun-05		1.173
F5F180132030	Soil	BRC-BKG-03C-9-11	Lead	4.4			mg/kg	16-Jun-05		0.0506
F5F180132030	Soil	BRC-BKG-03C-9-11	Lithium	24.9			mg/kg	16-Jun-05		0.2425
F5F180132030	Soil	BRC-BKG-03C-9-11	Magnesium	16900			mg/kg	16-Jun-05		1.176
F5F180132030	Soil	BRC-BKG-03C-9-11	Manganese	169 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132030	Soil	BRC-BKG-03C-9-11	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132030	Soil	BRC-BKG-03C-9-11	Molybdenum	0.51 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132030	Soil	BRC-BKG-03C-9-11	Nickel	11.5 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132030	Soil	BRC-BKG-03C-9-11	Niobium	1.6 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132030	Soil	BRC-BKG-03C-9-11	Palladium	1.2			mg/kg	16-Jun-05		0.0765
F5F180132030	Soil	BRC-BKG-03C-9-11	Phosphorus	862 N			mg/kg	16-Jun-05		1.913
F5F180132030	Soil	BRC-BKG-03C-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132030	Soil	BRC-BKG-03C-9-11	Potassium	1810			mg/kg	16-Jun-05		2.079
F5F180132030	Soil	BRC-BKG-03C-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132030	Soil	BRC-BKG-03C-9-11	Silicon	902 N			mg/kg	16-Jun-05		0.5289
F5F180132030	Soil	BRC-BKG-03C-9-11	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132030	Soil	BRC-BKG-03C-9-11	Sodium	815			mg/kg	16-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132030	Soil	BRC-BKG-03C-9-11	Strontium	684 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132030	Soil	BRC-BKG-03C-9-11	Thallium	U			mg/kg	16-Jun-05		0.5428
F5F180132030	Soil	BRC-BKG-03C-9-11	Tin	0.37 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132030	Soil	BRC-BKG-03C-9-11	Titanium	414 N			mg/kg	16-Jun-05		0.1175
F5F180132030	Soil	BRC-BKG-03C-9-11	Tungsten	1.6 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132030	Soil	BRC-BKG-03C-9-11	Uranium	1.7			mg/kg	16-Jun-05		0.038
F5F180132030	Soil	BRC-BKG-03C-9-11	Vanadium	28.8 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132030	Soil	BRC-BKG-03C-9-11	Zinc	21.9			mg/kg	16-Jun-05		0.2207
F5F180132030	Soil	BRC-BKG-03C-9-11	Zirconium	101			mg/kg	16-Jun-05		0.0874
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Chloride	0.38 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Sulfate	1.6 B J	U	b	mg/kg	14-Jun-05		0.612
F5F160308004	Soil	BRC-BKG-04A-0-0.5	CEC	18.4 J	J	g	meq/100g	14-Jun-05		
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308004	Soil	BRC-BKG-04A-0-0.5	pH (solid)	8.8	J	h	none	14-Jun-05		
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Actinium 227 [d]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Actinium 228	1.36			pCi/g	14-Jun-05	0.51	0.4
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Bismuth 210 [e]	0.8 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Bismuth 211 [f]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Bismuth 212	0.46 U			pCi/g	14-Jun-05	0.55	1.1
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Bismuth 214	0.89			pCi/g	14-Jun-05	0.24	0.16
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Cobalt 57	-0.029 U			pCi/g	14-Jun-05	0.031	0.05
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Cobalt 60	0.006 U			pCi/g	14-Jun-05	0.049	0.1
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lead 210	0.8 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lead 211 [g]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lead 212	1.08			pCi/g	14-Jun-05	0.21	0.16
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lead 214	0.75			pCi/g	14-Jun-05	0.2	0.17
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Polonium 210 [h]	0.8 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Polonium 212 [i]	0.29 U			pCi/g	14-Jun-05	0.35	0.69
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Polonium 214 [j]	0.89			pCi/g	14-Jun-05	0.23	0.16
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Polonium 215 [k]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Polonium 216 [l]	1.08			pCi/g	14-Jun-05	0.21	0.16
HDRE11C4	Soil	BRC-BKG-04A-0-0.5	Polonium 218 [m]	1.03	J	n	pCi/g	14-Jun-05	0.14	0.0222
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Potassium 40	22			pCi/g	14-Jun-05	3.4	1
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Protactinium 234	-0.23 U			pCi/g	14-Jun-05	0.16	0.24
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Radium 223 [n]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Radium 224 [o]	1.08			pCi/g	14-Jun-05	0.21	0.16
HDRE11C4	Soil	BRC-BKG-04A-0-0.5	Radium 226	1.03	J	n	pCi/g	14-Jun-05	0.14	0.0222
HDRE12C5	Soil	BRC-BKG-04A-0-0.5	Radium 228	1.46 J	U	k, b	pCi/g	14-Jun-05	0.2	0.588
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thallium 207 [p]	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thallium 208	0.49			pCi/g	14-Jun-05	0.14	0.09
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 227	-0.22 U			pCi/g	14-Jun-05	0.41	0.7
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 228	1.15			pCi/g	14-Jun-05	0.26	0.14
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 230	0.88 J	J	k	pCi/g	14-Jun-05	0.21	0.07
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 231	0.059 J	U	b	pCi/g	14-Jun-05	0.067	0.04
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 232	1.32			pCi/g	14-Jun-05	0.26	0.05
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thorium 234	1.05 U			pCi/g	14-Jun-05	0.65	1.2
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Uranium 233/234	0.89 J	U	b	pCi/g	14-Jun-05	0.22	0.07
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Uranium 235	0.059 J	J	k	pCi/g	14-Jun-05	0.067	0.04
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Uranium 238	0.77 J	J	k	pCi/g	14-Jun-05	0.21	0.05
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Moisture (%)	1.5			percent	14-Jun-05		
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Aluminum	12600 NE	J	j	mg/kg	14-Jun-05		2
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Arsenic	2.5			mg/kg	14-Jun-05		0.1278
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Barium	220 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Beryllium	0.44 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Boron	3.5 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Calcium	25800 N			mg/kg	14-Jun-05		1.028
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Chromium	6.4			mg/kg	14-Jun-05		0.1841
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Cobalt	11.2 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Copper	19.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Iron	16800 N			mg/kg	14-Jun-05		1.173
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lead	7.3			mg/kg	14-Jun-05		0.0506

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Lithium	7.5			mg/kg	14-Jun-05		0.2425
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Magnesium	17500 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Manganese	544 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Mercury	0.023 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Molybdenum	0.32 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Nickel	16.8 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Niobium	2.3 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Palladium	0.57			mg/kg	14-Jun-05		0.0765
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Phosphorus	1810 N			mg/kg	14-Jun-05		1.913
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Potassium	1500 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Silicon	573 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Sodium	515			mg/kg	14-Jun-05		7.567
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Strontium	249 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Thallium	1.5			mg/kg	14-Jun-05		0.5428
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Tin	0.58 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Titanium	702 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Tungsten	2.5 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Uranium	0.89 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Vanadium	54.2 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Zinc	42.2			mg/kg	14-Jun-05		0.2207
F5F160308004	Soil	BRC-BKG-04A-0-0.5	Zirconium	146 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308005	Soil	BRC-BKG-04A-4-6	Chloride	2.7			mg/kg	14-Jun-05		0.25
F5F160308005	Soil	BRC-BKG-04A-4-6	Fluoride	0.76 B J	U	b	mg/kg	14-Jun-05		0.051
F5F160308005	Soil	BRC-BKG-04A-4-6	Nitrate	0.22	J	h	mg/kg	14-Jun-05		0.1
F5F160308005	Soil	BRC-BKG-04A-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308005	Soil	BRC-BKG-04A-4-6	Sulfate	15.1 J			mg/kg	14-Jun-05		0.612
F5F160308005	Soil	BRC-BKG-04A-4-6	CEC	14.9 J	J	g	meq/100g	14-Jun-05		
F5F160308005	Soil	BRC-BKG-04A-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308005	Soil	BRC-BKG-04A-4-6	pH (solid)	9	J	h	none	14-Jun-05		
F5F160308005	Soil	BRC-BKG-04A-4-6	Actinium 227 [d]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308005	Soil	BRC-BKG-04A-4-6	Actinium 228	1.24			pCi/g	14-Jun-05	0.51	0.35
F5F160308005	Soil	BRC-BKG-04A-4-6	Bismuth 210 [e]	-0.2 U			pCi/g	14-Jun-05	1	1.8
F5F160308005	Soil	BRC-BKG-04A-4-6	Bismuth 211 [f]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Bismuth 212	0.72			pCi/g	14-Jun-05	0.56	0.64
F5F160308005	Soil	BRC-BKG-04A-4-6	Bismuth 214	0.7			pCi/g	14-Jun-05	0.2	0.3
F5F160308005	Soil	BRC-BKG-04A-4-6	Cobalt 57	0.005 U			pCi/g	14-Jun-05	0.025	0.043
F5F160308005	Soil	BRC-BKG-04A-4-6	Cobalt 60	-0.013 U			pCi/g	14-Jun-05	0.049	0.088
F5F160308005	Soil	BRC-BKG-04A-4-6	Lead 210	-0.2 U			pCi/g	14-Jun-05	1	1.8
F5F160308005	Soil	BRC-BKG-04A-4-6	Lead 211 [g]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Lead 212	1.25			pCi/g	14-Jun-05	0.19	0.12
F5F160308005	Soil	BRC-BKG-04A-4-6	Lead 214	0.77			pCi/g	14-Jun-05	0.17	0.14
F5F160308005	Soil	BRC-BKG-04A-4-6	Polonium 210 [h]	-0.2 U			pCi/g	14-Jun-05	1	1.8
F5F160308005	Soil	BRC-BKG-04A-4-6	Polonium 212 [i]	0.46			pCi/g	14-Jun-05	0.36	0.41
F5F160308005	Soil	BRC-BKG-04A-4-6	Polonium 214 [j]	0.7			pCi/g	14-Jun-05	0.2	0.15
F5F160308005	Soil	BRC-BKG-04A-4-6	Polonium 215 [k]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Polonium 216 [l]	1.25			pCi/g	14-Jun-05	0.19	0.12
HDRE61C4	Soil	BRC-BKG-04A-4-6	Polonium 218 [m]	0.577 J	J	k, n	pCi/g	14-Jun-05	0.1	0.215
F5F160308005	Soil	BRC-BKG-04A-4-6	Potassium 40	21.9			pCi/g	14-Jun-05	3.1	0.8
F5F160308005	Soil	BRC-BKG-04A-4-6	Protactinium 234	-0.16 U			pCi/g	14-Jun-05	0.13	0.21
F5F160308005	Soil	BRC-BKG-04A-4-6	Radium 223 [n]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Radium 224 [o]	1.25			pCi/g	14-Jun-05	0.19	0.12
HDRE61C4	Soil	BRC-BKG-04A-4-6	Radium 226	0.577 J	J	k, n	pCi/g	14-Jun-05	0.1	0.215
HDRE62C5	Soil	BRC-BKG-04A-4-6	Radium 228	1.59 J	U	k, b	pCi/g	14-Jun-05	0.22	0.648
F5F160308005	Soil	BRC-BKG-04A-4-6	Thallium 207 [p]	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Thallium 208	0.4			pCi/g	14-Jun-05	0.12	0.07
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 227	-0.11 U			pCi/g	14-Jun-05	0.36	0.62
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 228	1.33			pCi/g	14-Jun-05	0.29	0.16
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 230	0.92 J	J	k	pCi/g	14-Jun-05	0.23	0.1
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 231	0.043 J	U	b	pCi/g	14-Jun-05	0.057	0.038
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 232	1.3			pCi/g	14-Jun-05	0.27	0.07
F5F160308005	Soil	BRC-BKG-04A-4-6	Thorium 234	0.32 U			pCi/g	14-Jun-05	0.66	1
F5F160308005	Soil	BRC-BKG-04A-4-6	Uranium 233/234	0.9 J	U	b	pCi/g	14-Jun-05	0.22	0.08
F5F160308005	Soil	BRC-BKG-04A-4-6	Uranium 235	0.043 J	J	k	pCi/g	14-Jun-05	0.057	0.038

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308005	Soil	BRC-BKG-04A-4-6	Uranium 238	1.14			pCi/g	14-Jun-05	0.25	0.07
F5F160308005	Soil	BRC-BKG-04A-4-6	Moisture (%)	4.2			percent	14-Jun-05		
F5F160308005	Soil	BRC-BKG-04A-4-6	Aluminum	14700 NE	J	j	mg/kg	14-Jun-05		2
F5F160308005	Soil	BRC-BKG-04A-4-6	Antimony	N U			mg/kg	14-Jun-05		0.3298
F5F160308005	Soil	BRC-BKG-04A-4-6	Arsenic	3.1			mg/kg	14-Jun-05		0.1278
F5F160308005	Soil	BRC-BKG-04A-4-6	Barium	272 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308005	Soil	BRC-BKG-04A-4-6	Beryllium	0.5 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308005	Soil	BRC-BKG-04A-4-6	Boron	3.5 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308005	Soil	BRC-BKG-04A-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308005	Soil	BRC-BKG-04A-4-6	Calcium	20600 N			mg/kg	14-Jun-05		1.028
F5F160308005	Soil	BRC-BKG-04A-4-6	Chromium	7.1			mg/kg	14-Jun-05		0.1841
F5F160308005	Soil	BRC-BKG-04A-4-6	Cobalt	12.5 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308005	Soil	BRC-BKG-04A-4-6	Copper	22.7 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308005	Soil	BRC-BKG-04A-4-6	Iron	18600 N			mg/kg	14-Jun-05		1.173
F5F160308005	Soil	BRC-BKG-04A-4-6	Lead	7.2			mg/kg	14-Jun-05		0.0506
F5F160308005	Soil	BRC-BKG-04A-4-6	Lithium	9.9			mg/kg	14-Jun-05		0.2425
F5F160308005	Soil	BRC-BKG-04A-4-6	Magnesium	12900 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308005	Soil	BRC-BKG-04A-4-6	Manganese	618 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308005	Soil	BRC-BKG-04A-4-6	Mercury	0.028 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308005	Soil	BRC-BKG-04A-4-6	Molybdenum	0.38 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308005	Soil	BRC-BKG-04A-4-6	Nickel	18.7 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308005	Soil	BRC-BKG-04A-4-6	Niobium	1.6 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308005	Soil	BRC-BKG-04A-4-6	Palladium	0.81			mg/kg	14-Jun-05		0.0765
F5F160308005	Soil	BRC-BKG-04A-4-6	Phosphorus	1900 N			mg/kg	14-Jun-05		1.913
F5F160308005	Soil	BRC-BKG-04A-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308005	Soil	BRC-BKG-04A-4-6	Potassium	1490 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308005	Soil	BRC-BKG-04A-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308005	Soil	BRC-BKG-04A-4-6	Silicon	538 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308005	Soil	BRC-BKG-04A-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308005	Soil	BRC-BKG-04A-4-6	Sodium	730			mg/kg	14-Jun-05		7.567
F5F160308005	Soil	BRC-BKG-04A-4-6	Strontium	441 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308005	Soil	BRC-BKG-04A-4-6	Thallium	1.8			mg/kg	14-Jun-05		0.5428
F5F160308005	Soil	BRC-BKG-04A-4-6	Tin	0.68 B	J	g	mg/kg	14-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308005	Soil	BRC-BKG-04A-4-6	Titanium	958 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308005	Soil	BRC-BKG-04A-4-6	Tungsten	1.8 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308005	Soil	BRC-BKG-04A-4-6	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308005	Soil	BRC-BKG-04A-4-6	Vanadium	59.1 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308005	Soil	BRC-BKG-04A-4-6	Zinc	43.8			mg/kg	14-Jun-05		0.2207
F5F160308005	Soil	BRC-BKG-04A-4-6	Zirconium	175 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308011	Soil	BRC-BKG-04A-9-11	Chloride	16			mg/kg	14-Jun-05		0.25
F5F160308011	Soil	BRC-BKG-04A-9-11	Fluoride	2.5 J	J+	b	mg/kg	14-Jun-05		0.051
F5F160308011	Soil	BRC-BKG-04A-9-11	Nitrate	3.4	J	h	mg/kg	14-Jun-05		0.1
F5F160308011	Soil	BRC-BKG-04A-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308011	Soil	BRC-BKG-04A-9-11	Sulfate	49.3 J			mg/kg	14-Jun-05		0.612
F5F160308011	Soil	BRC-BKG-04A-9-11	CEC	15.6 J	J	g	meq/100g	14-Jun-05		
F5F160308011	Soil	BRC-BKG-04A-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308011	Soil	BRC-BKG-04A-9-11	pH (solid)	8.9	J	h	none	14-Jun-05		
F5F160308011	Soil	BRC-BKG-04A-9-11	Actinium 227 [d]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Actinium 228	1.48			pCi/g	14-Jun-05	0.54	0.32
F5F160308011	Soil	BRC-BKG-04A-9-11	Bismuth 210 [e]	2.2			pCi/g	14-Jun-05	1.6	1.5
F5F160308011	Soil	BRC-BKG-04A-9-11	Bismuth 211 [f]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Bismuth 212	0.75 U			pCi/g	14-Jun-05	0.52	1
F5F160308011	Soil	BRC-BKG-04A-9-11	Bismuth 214	0.79			pCi/g	14-Jun-05	0.21	0.37
F5F160308011	Soil	BRC-BKG-04A-9-11	Cobalt 57	-0.005 U			pCi/g	14-Jun-05	0.027	0.045
F5F160308011	Soil	BRC-BKG-04A-9-11	Cobalt 60	0.026 U			pCi/g	14-Jun-05	0.049	0.11
F5F160308011	Soil	BRC-BKG-04A-9-11	Lead 210	2.2			pCi/g	14-Jun-05	1.6	1.5
F5F160308011	Soil	BRC-BKG-04A-9-11	Lead 211 [g]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Lead 212	1.22			pCi/g	14-Jun-05	0.2	0.13
F5F160308011	Soil	BRC-BKG-04A-9-11	Lead 214	0.73			pCi/g	14-Jun-05	0.18	0.14
F5F160308011	Soil	BRC-BKG-04A-9-11	Polonium 210 [h]	2.2			pCi/g	14-Jun-05	1.6	1.5
F5F160308011	Soil	BRC-BKG-04A-9-11	Polonium 212 [i]	0.48 U			pCi/g	14-Jun-05	0.33	0.66
F5F160308011	Soil	BRC-BKG-04A-9-11	Polonium 214 [j]	0.79			pCi/g	14-Jun-05	0.21	0.18
F5F160308011	Soil	BRC-BKG-04A-9-11	Polonium 215 [k]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Polonium 216 [l]	1.22			pCi/g	14-Jun-05	0.2	0.13
HDRF31C4	Soil	BRC-BKG-04A-9-11	Polonium 218 [m]	0.507 J	J	k, n	pCi/g	14-Jun-05	0.095	0.185
F5F160308011	Soil	BRC-BKG-04A-9-11	Potassium 40	24.5			pCi/g	14-Jun-05	3.5	0.8

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308011	Soil	BRC-BKG-04A-9-11	Protactinium 234	-0.11 U			pCi/g	14-Jun-05	0.13	0.22
F5F160308011	Soil	BRC-BKG-04A-9-11	Radium 223 [n]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Radium 224 [o]	1.22			pCi/g	14-Jun-05	0.2	0.13
HDRF31C4	Soil	BRC-BKG-04A-9-11	Radium 226	0.507 J	J	k, n	pCi/g	14-Jun-05	0.095	0.185
HDRF32C5	Soil	BRC-BKG-04A-9-11	Radium 228	2.02			pCi/g	14-Jun-05	0.23	0.509
F5F160308011	Soil	BRC-BKG-04A-9-11	Thallium 207 [p]	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Thallium 208	0.45			pCi/g	14-Jun-05	0.13	0.09
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 227	-0.25 U			pCi/g	14-Jun-05	0.4	0.67
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 228	1.43			pCi/g	14-Jun-05	0.29	0.1
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 230	0.98 J	J	k	pCi/g	14-Jun-05	0.23	0.05
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 231	0.076 U			pCi/g	14-Jun-05	0.091	0.12
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 232	1.42			pCi/g	14-Jun-05	0.28	0.06
F5F160308011	Soil	BRC-BKG-04A-9-11	Thorium 234	0.46 U			pCi/g	14-Jun-05	0.69	1.1
F5F160308011	Soil	BRC-BKG-04A-9-11	Uranium 233/234	1.07	U	b	pCi/g	14-Jun-05	0.28	0.09
F5F160308011	Soil	BRC-BKG-04A-9-11	Uranium 235	0.076 U			pCi/g	14-Jun-05	0.091	0.12
F5F160308011	Soil	BRC-BKG-04A-9-11	Uranium 238	1.05			pCi/g	14-Jun-05	0.28	0.09
F5F160308011	Soil	BRC-BKG-04A-9-11	Moisture (%)	6.1			percent	14-Jun-05		
F5F160308011	Soil	BRC-BKG-04A-9-11	Aluminum	12500 NE	J	j	mg/kg	14-Jun-05		2
F5F160308011	Soil	BRC-BKG-04A-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308011	Soil	BRC-BKG-04A-9-11	Arsenic	3.2			mg/kg	14-Jun-05		0.1278
F5F160308011	Soil	BRC-BKG-04A-9-11	Barium	191 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308011	Soil	BRC-BKG-04A-9-11	Beryllium	0.43 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308011	Soil	BRC-BKG-04A-9-11	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308011	Soil	BRC-BKG-04A-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308011	Soil	BRC-BKG-04A-9-11	Calcium	32300 N			mg/kg	14-Jun-05		1.028
F5F160308011	Soil	BRC-BKG-04A-9-11	Chromium	7.5			mg/kg	14-Jun-05		0.1841
F5F160308011	Soil	BRC-BKG-04A-9-11	Cobalt	11.6 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308011	Soil	BRC-BKG-04A-9-11	Copper	19.8 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308011	Soil	BRC-BKG-04A-9-11	Iron	16800 N			mg/kg	14-Jun-05		1.173
F5F160308011	Soil	BRC-BKG-04A-9-11	Lead	6.3			mg/kg	14-Jun-05		0.0506
F5F160308011	Soil	BRC-BKG-04A-9-11	Lithium	10.1			mg/kg	14-Jun-05		0.2425
F5F160308011	Soil	BRC-BKG-04A-9-11	Magnesium	12700 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308011	Soil	BRC-BKG-04A-9-11	Manganese	566 NE	J	j	mg/kg	14-Jun-05		0.0131

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308011	Soil	BRC-BKG-04A-9-11	Mercury	0.11			mg/kg	14-Jun-05		0.0072
F5F160308011	Soil	BRC-BKG-04A-9-11	Molybdenum	0.46 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308011	Soil	BRC-BKG-04A-9-11	Nickel	18 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308011	Soil	BRC-BKG-04A-9-11	Niobium	N U	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308011	Soil	BRC-BKG-04A-9-11	Palladium	0.55			mg/kg	14-Jun-05		0.0765
F5F160308011	Soil	BRC-BKG-04A-9-11	Phosphorus	1800 N			mg/kg	14-Jun-05		1.913
F5F160308011	Soil	BRC-BKG-04A-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308011	Soil	BRC-BKG-04A-9-11	Potassium	1180 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308011	Soil	BRC-BKG-04A-9-11	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308011	Soil	BRC-BKG-04A-9-11	Silicon	527 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308011	Soil	BRC-BKG-04A-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308011	Soil	BRC-BKG-04A-9-11	Sodium	668			mg/kg	14-Jun-05		7.567
F5F160308011	Soil	BRC-BKG-04A-9-11	Strontium	267 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308011	Soil	BRC-BKG-04A-9-11	Thallium	1.5			mg/kg	14-Jun-05		0.5428
F5F160308011	Soil	BRC-BKG-04A-9-11	Tin	0.5 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308011	Soil	BRC-BKG-04A-9-11	Titanium	701 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308011	Soil	BRC-BKG-04A-9-11	Tungsten	1.1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308011	Soil	BRC-BKG-04A-9-11	Uranium	0.94 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308011	Soil	BRC-BKG-04A-9-11	Vanadium	49.2 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308011	Soil	BRC-BKG-04A-9-11	Zinc	43			mg/kg	14-Jun-05		0.2207
F5F160308011	Soil	BRC-BKG-04A-9-11	Zirconium	164 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Chloride	1.1 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Sulfate	3.3 B	U	b	mg/kg	14-Jun-05		0.612
F5F160308012	Soil	BRC-BKG-04B-0-0.5	CEC	17.4 J	J	g	meq/100g	14-Jun-05		
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308012	Soil	BRC-BKG-04B-0-0.5	pH (solid)	8.8	J	h	none	14-Jun-05		
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Actinium 227 [d]	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Actinium 228	1.79			pCi/g	14-Jun-05	0.64	0.43
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Bismuth 210 [e]	0.3 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Bismuth 211 [f]	0.06 U			pCi/g	14-Jun-05	0.41	0.74

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Bismuth 212	1.16			pCi/g	14-Jun-05	0.52	1.1
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Bismuth 214	0.6			pCi/g	14-Jun-05	0.21	0.39
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Cobalt 57	-0.011 U			pCi/g	14-Jun-05	0.028	0.048
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Cobalt 60	-0.009 U			pCi/g	14-Jun-05	0.045	0.088
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lead 210	0.3 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lead 211 [g]	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lead 212	1.34			pCi/g	14-Jun-05	0.23	0.16
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lead 214	0.77			pCi/g	14-Jun-05	0.22	0.15
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Polonium 210 [h]	0.3 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Polonium 212 [i]	0.75			pCi/g	14-Jun-05	0.33	0.73
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Polonium 214 [j]	0.6			pCi/g	14-Jun-05	0.21	0.17
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Polonium 215 [k]	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Polonium 216 [l]	1.34			pCi/g	14-Jun-05	0.23	0.16
HDRF41C4	Soil	BRC-BKG-04B-0-0.5	Polonium 218 [m]	0.893 J	J	k, n	pCi/g	14-Jun-05	0.13	0.138
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Potassium 40	22.5			pCi/g	14-Jun-05	3.5	1.2
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Protactinium 234	-0.18 U			pCi/g	14-Jun-05	0.15	0.24
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Radium 223 [n]	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Radium 224 [o]	1.34			pCi/g	14-Jun-05	0.23	0.16
HDRF41C4	Soil	BRC-BKG-04B-0-0.5	Radium 226	0.893 J	J	k, n	pCi/g	14-Jun-05	0.13	0.138
HDRF42C5	Soil	BRC-BKG-04B-0-0.5	Radium 228	1.78 J	U	k, b	pCi/g	14-Jun-05	0.22	0.463
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thallium 207 [p]	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thallium 208	0.48			pCi/g	14-Jun-05	0.12	0.09
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 227	0.06 U			pCi/g	14-Jun-05	0.41	0.74
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 228	1.85			pCi/g	14-Jun-05	0.38	0.25
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 230	0.77 J	J	k	pCi/g	14-Jun-05	0.21	0.1
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 231	0.036 U			pCi/g	14-Jun-05	0.088	0.14
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 232	1.77			pCi/g	14-Jun-05	0.33	0.09
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thorium 234	0.81 U			pCi/g	14-Jun-05	0.63	1.1
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Uranium 233/234	0.76 J	U	b	pCi/g	14-Jun-05	0.26	0.16
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Uranium 235	0.036 U			pCi/g	14-Jun-05	0.088	0.14
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Uranium 238	1.02			pCi/g	14-Jun-05	0.29	0.11
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Moisture (%)	1.6			percent	14-Jun-05		
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Aluminum	13400 NE	J	j	mg/kg	14-Jun-05		2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Arsenic	2.6			mg/kg	14-Jun-05		0.1278
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Barium	218 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Beryllium	0.45 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Calcium	20600 N			mg/kg	14-Jun-05		1.028
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Chromium	7			mg/kg	14-Jun-05		0.1841
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Cobalt	11.9 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Copper	19.6 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Iron	18300 N			mg/kg	14-Jun-05		1.173
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lead	8.2			mg/kg	14-Jun-05		0.0506
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Lithium	8.9			mg/kg	14-Jun-05		0.2425
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Magnesium	12200 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Manganese	550 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Mercury	0.032 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Molybdenum	0.32 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Nickel	16.8 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Niobium	N U	UJ-	e	mg/kg	14-Jun-05		1.015
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Palladium	0.73			mg/kg	14-Jun-05		0.0765
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Phosphorus	1990 N			mg/kg	14-Jun-05		1.913
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Potassium	1540 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Silicon	675 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Sodium	372			mg/kg	14-Jun-05		7.567
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Strontium	402 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Thallium	1.7			mg/kg	14-Jun-05		0.5428
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Tin	0.61 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Titanium	936 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Tungsten	0.93 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Uranium	0.94 B	J	g	mg/kg	14-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Vanadium	55.3 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Zinc	43.1			mg/kg	14-Jun-05		0.2207
F5F160308012	Soil	BRC-BKG-04B-0-0.5	Zirconium	168 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308001	Soil	BRC-BKG-04B-4-6	Chloride	2.1			mg/kg	14-Jun-05		0.25
F5F160308001	Soil	BRC-BKG-04B-4-6	Fluoride	0.89 B J	U	b	mg/kg	14-Jun-05		0.051
F5F160308001	Soil	BRC-BKG-04B-4-6	Nitrate	0.35	J	h	mg/kg	14-Jun-05		0.1
F5F160308001	Soil	BRC-BKG-04B-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308001	Soil	BRC-BKG-04B-4-6	Sulfate	49.2 J			mg/kg	14-Jun-05		0.612
F5F160308001	Soil	BRC-BKG-04B-4-6	CEC	19.4 J	J	g	meq/100g	14-Jun-05		
F5F160308001	Soil	BRC-BKG-04B-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308001	Soil	BRC-BKG-04B-4-6	pH (solid)	9.1	J	h	none	14-Jun-05		
F5F160308001	Soil	BRC-BKG-04B-4-6	Actinium 227 [d]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Actinium 228	2.04			pCi/g	14-Jun-05	0.7	0.36
F5F160308001	Soil	BRC-BKG-04B-4-6	Bismuth 210 [e]	0.2 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308001	Soil	BRC-BKG-04B-4-6	Bismuth 211 [f]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Bismuth 212	1.32			pCi/g	14-Jun-05	0.58	0.71
F5F160308001	Soil	BRC-BKG-04B-4-6	Bismuth 214	0.64			pCi/g	14-Jun-05	0.19	0.35
F5F160308001	Soil	BRC-BKG-04B-4-6	Cobalt 57	-0.006 U			pCi/g	14-Jun-05	0.031	0.053
F5F160308001	Soil	BRC-BKG-04B-4-6	Cobalt 60	-0.026 U			pCi/g	14-Jun-05	0.043	0.074
F5F160308001	Soil	BRC-BKG-04B-4-6	Lead 210	0.2 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308001	Soil	BRC-BKG-04B-4-6	Lead 211 [g]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Lead 212	1.2			pCi/g	14-Jun-05	0.23	0.2
F5F160308001	Soil	BRC-BKG-04B-4-6	Lead 214	0.86			pCi/g	14-Jun-05	0.19	0.13
F5F160308001	Soil	BRC-BKG-04B-4-6	Polonium 210 [h]	0.2 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308001	Soil	BRC-BKG-04B-4-6	Polonium 212 [i]	0.85			pCi/g	14-Jun-05	0.37	0.45
F5F160308001	Soil	BRC-BKG-04B-4-6	Polonium 214 [j]	0.64			pCi/g	14-Jun-05	0.19	0.17
F5F160308001	Soil	BRC-BKG-04B-4-6	Polonium 215 [k]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Polonium 216 [l]	1.2			pCi/g	14-Jun-05	0.23	0.2
HDRDQ1F3	Soil	BRC-BKG-04B-4-6	Polonium 218 [m]	1.04	J	n	pCi/g	14-Jun-05	0.14	0.199
F5F160308001	Soil	BRC-BKG-04B-4-6	Potassium 40	21.8			pCi/g	14-Jun-05	3.3	0.9
F5F160308001	Soil	BRC-BKG-04B-4-6	Protactinium 234	0.007 U			pCi/g	14-Jun-05	0.15	0.26
F5F160308001	Soil	BRC-BKG-04B-4-6	Radium 223 [n]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Radium 224 [o]	1.2			pCi/g	14-Jun-05	0.23	0.2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDRDQ1F3	Soil	BRC-BKG-04B-4-6	Radium 226	1.04	J	n	pCi/g	14-Jun-05	0.14	0.199
HDRDQ2F4	Soil	BRC-BKG-04B-4-6	Radium 228	1.35 J	U	k, b	pCi/g	14-Jun-05	0.21	0.69
F5F160308001	Soil	BRC-BKG-04B-4-6	Thallium 207 [p]	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Thallium 208	0.43			pCi/g	14-Jun-05	0.11	0.11
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 227	-0.15 U			pCi/g	14-Jun-05	0.39	0.66
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 228	1.63			pCi/g	14-Jun-05	0.31	0.09
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 230	0.95 J	J	k	pCi/g	14-Jun-05	0.22	0.05
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 231	0.001 U			pCi/g	14-Jun-05	0.042	0.094
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 232	1.5			pCi/g	14-Jun-05	0.29	0.06
F5F160308001	Soil	BRC-BKG-04B-4-6	Thorium 234	0.77 U			pCi/g	14-Jun-05	0.64	1.1
F5F160308001	Soil	BRC-BKG-04B-4-6	Uranium 233/234	0.76 J	U	b	pCi/g	14-Jun-05	0.21	0.08
F5F160308001	Soil	BRC-BKG-04B-4-6	Uranium 235	0.001 U			pCi/g	14-Jun-05	0.042	0.094
F5F160308001	Soil	BRC-BKG-04B-4-6	Uranium 238	0.82 J	J	k	pCi/g	14-Jun-05	0.22	0.07
F5F160308001	Soil	BRC-BKG-04B-4-6	Moisture (%)	4.1			percent	14-Jun-05		
F5F160308001	Soil	BRC-BKG-04B-4-6	Aluminum	11800 NE	J	j	mg/kg	14-Jun-05		2
F5F160308001	Soil	BRC-BKG-04B-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308001	Soil	BRC-BKG-04B-4-6	Arsenic	2.8			mg/kg	14-Jun-05		0.1278
F5F160308001	Soil	BRC-BKG-04B-4-6	Barium	183 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308001	Soil	BRC-BKG-04B-4-6	Beryllium	0.45 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308001	Soil	BRC-BKG-04B-4-6	Boron	4.5 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308001	Soil	BRC-BKG-04B-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308001	Soil	BRC-BKG-04B-4-6	Calcium	20800 N			mg/kg	14-Jun-05		1.028
F5F160308001	Soil	BRC-BKG-04B-4-6	Chromium	8.1			mg/kg	14-Jun-05		0.1841
F5F160308001	Soil	BRC-BKG-04B-4-6	Cobalt	10.8 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308001	Soil	BRC-BKG-04B-4-6	Copper	17.6 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308001	Soil	BRC-BKG-04B-4-6	Iron	18800 N			mg/kg	14-Jun-05		1.173
F5F160308001	Soil	BRC-BKG-04B-4-6	Lead	7.7			mg/kg	14-Jun-05		0.0506
F5F160308001	Soil	BRC-BKG-04B-4-6	Lithium	9.4			mg/kg	14-Jun-05		0.2425
F5F160308001	Soil	BRC-BKG-04B-4-6	Magnesium	11100 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308001	Soil	BRC-BKG-04B-4-6	Manganese	488 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308001	Soil	BRC-BKG-04B-4-6	Mercury	0.021 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308001	Soil	BRC-BKG-04B-4-6	Molybdenum	0.3 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308001	Soil	BRC-BKG-04B-4-6	Nickel	15.5 E	J	j	mg/kg	14-Jun-05		0.1295

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308001	Soil	BRC-BKG-04B-4-6	Niobium	2.3 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308001	Soil	BRC-BKG-04B-4-6	Palladium	0.46			mg/kg	14-Jun-05		0.0765
F5F160308001	Soil	BRC-BKG-04B-4-6	Phosphorus	2010 N			mg/kg	14-Jun-05		1.913
F5F160308001	Soil	BRC-BKG-04B-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308001	Soil	BRC-BKG-04B-4-6	Potassium	1060 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308001	Soil	BRC-BKG-04B-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308001	Soil	BRC-BKG-04B-4-6	Silicon	530 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308001	Soil	BRC-BKG-04B-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308001	Soil	BRC-BKG-04B-4-6	Sodium	660			mg/kg	14-Jun-05		7.567
F5F160308001	Soil	BRC-BKG-04B-4-6	Strontium	219 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308001	Soil	BRC-BKG-04B-4-6	Thallium	1.4			mg/kg	14-Jun-05		0.5428
F5F160308001	Soil	BRC-BKG-04B-4-6	Tin	0.57 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308001	Soil	BRC-BKG-04B-4-6	Titanium	704 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308001	Soil	BRC-BKG-04B-4-6	Tungsten	1.1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308001	Soil	BRC-BKG-04B-4-6	Uranium	7.6	R	j	mg/kg	14-Jun-05		0.038
F5F160308001	Soil	BRC-BKG-04B-4-6	Vanadium	50 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308001	Soil	BRC-BKG-04B-4-6	Zinc	42.8			mg/kg	14-Jun-05		0.2207
F5F160308001	Soil	BRC-BKG-04B-4-6	Zirconium	167 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308002	Soil	BRC-BKG-04B-9-11	Chloride	6.3			mg/kg	14-Jun-05		0.25
F5F160308002	Soil	BRC-BKG-04B-9-11	Fluoride	1.5 J	U	b	mg/kg	14-Jun-05		0.051
F5F160308002	Soil	BRC-BKG-04B-9-11	Nitrate	0.62	J	h	mg/kg	14-Jun-05		0.1
F5F160308002	Soil	BRC-BKG-04B-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308002	Soil	BRC-BKG-04B-9-11	Sulfate	160 J			mg/kg	14-Jun-05		0.612
F5F160308002	Soil	BRC-BKG-04B-9-11	CEC	13.2 J	J	g	meq/100g	14-Jun-05		
F5F160308002	Soil	BRC-BKG-04B-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308002	Soil	BRC-BKG-04B-9-11	pH (solid)	8.6	J	h	none	14-Jun-05		
F5F160308002	Soil	BRC-BKG-04B-9-11	Actinium 227 [d]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Actinium 228	1.55			pCi/g	14-Jun-05	0.6	0.32
F5F160308002	Soil	BRC-BKG-04B-9-11	Bismuth 210 [e]	0.81 U			pCi/g	14-Jun-05	0.91	1.8
F5F160308002	Soil	BRC-BKG-04B-9-11	Bismuth 211 [f]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Bismuth 212	0.64 U			pCi/g	14-Jun-05	0.47	0.94
F5F160308002	Soil	BRC-BKG-04B-9-11	Bismuth 214	0.67			pCi/g	14-Jun-05	0.19	0.16
F5F160308002	Soil	BRC-BKG-04B-9-11	Cobalt 57	-0.032 U			pCi/g	14-Jun-05	0.028	0.042

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308002	Soil	BRC-BKG-04B-9-11	Cobalt 60	-0.02 U			pCi/g	14-Jun-05	0.05	0.09
F5F160308002	Soil	BRC-BKG-04B-9-11	Lead 210	0.81 U			pCi/g	14-Jun-05	0.91	1.8
F5F160308002	Soil	BRC-BKG-04B-9-11	Lead 211 [g]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Lead 212	1.29			pCi/g	14-Jun-05	0.22	0.16
F5F160308002	Soil	BRC-BKG-04B-9-11	Lead 214	0.69			pCi/g	14-Jun-05	0.16	0.14
F5F160308002	Soil	BRC-BKG-04B-9-11	Polonium 210 [h]	0.81 U			pCi/g	14-Jun-05	0.91	1.8
F5F160308002	Soil	BRC-BKG-04B-9-11	Polonium 212 [i]	0.41 U			pCi/g	14-Jun-05	0.3	0.6
F5F160308002	Soil	BRC-BKG-04B-9-11	Polonium 214 [j]	0.67			pCi/g	14-Jun-05	0.19	0.16
F5F160308002	Soil	BRC-BKG-04B-9-11	Polonium 215 [k]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Polonium 216 [l]	1.29			pCi/g	14-Jun-05	0.22	0.16
HDRD51C4	Soil	BRC-BKG-04B-9-11	Polonium 218 [m]	0.635 J	J	k, n	pCi/g	14-Jun-05	0.1	0.165
F5F160308002	Soil	BRC-BKG-04B-9-11	Potassium 40	24.1			pCi/g	14-Jun-05	3.4	0.7
F5F160308002	Soil	BRC-BKG-04B-9-11	Protactinium 234	-0.09 U			pCi/g	14-Jun-05	0.13	0.21
F5F160308002	Soil	BRC-BKG-04B-9-11	Radium 223 [n]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Radium 224 [o]	1.29			pCi/g	14-Jun-05	0.22	0.16
HDRD51C4	Soil	BRC-BKG-04B-9-11	Radium 226	0.635 J	J	k, n	pCi/g	14-Jun-05	0.1	0.165
HDRD52C5	Soil	BRC-BKG-04B-9-11	Radium 228	1.91 J	U	k, b	pCi/g	14-Jun-05	0.24	0.687
F5F160308002	Soil	BRC-BKG-04B-9-11	Thallium 207 [p]	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Thallium 208	0.39			pCi/g	14-Jun-05	0.1	0.08
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 227	0.12 U			pCi/g	14-Jun-05	0.34	0.63
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 228	1.27			pCi/g	14-Jun-05	0.33	0.28
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 230	0.81 J	J	k	pCi/g	14-Jun-05	0.21	0.1
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 231	0.087 J	U	b	pCi/g	14-Jun-05	0.078	0.081
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 232	1.52			pCi/g	14-Jun-05	0.3	0.06
F5F160308002	Soil	BRC-BKG-04B-9-11	Thorium 234	1.11			pCi/g	14-Jun-05	0.87	0.92
F5F160308002	Soil	BRC-BKG-04B-9-11	Uranium 233/234	0.85 J	U	b	pCi/g	14-Jun-05	0.22	0.1
F5F160308002	Soil	BRC-BKG-04B-9-11	Uranium 235	0.087 J	J	k	pCi/g	14-Jun-05	0.078	0.081
F5F160308002	Soil	BRC-BKG-04B-9-11	Uranium 238	0.85 J	J	k	pCi/g	14-Jun-05	0.21	0.06
F5F160308002	Soil	BRC-BKG-04B-9-11	Moisture (%)	4.8			percent	14-Jun-05		
F5F160308002	Soil	BRC-BKG-04B-9-11	Aluminum	13300 NE	J	j	mg/kg	14-Jun-05		2
F5F160308002	Soil	BRC-BKG-04B-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308002	Soil	BRC-BKG-04B-9-11	Arsenic	3.1			mg/kg	14-Jun-05		0.1278
F5F160308002	Soil	BRC-BKG-04B-9-11	Barium	245 N	J	e	mg/kg	14-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308002	Soil	BRC-BKG-04B-9-11	Beryllium	0.5 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308002	Soil	BRC-BKG-04B-9-11	Boron	5 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308002	Soil	BRC-BKG-04B-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308002	Soil	BRC-BKG-04B-9-11	Calcium	24500 N			mg/kg	14-Jun-05		1.028
F5F160308002	Soil	BRC-BKG-04B-9-11	Chromium	9.1			mg/kg	14-Jun-05		0.1841
F5F160308002	Soil	BRC-BKG-04B-9-11	Cobalt	16.3 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308002	Soil	BRC-BKG-04B-9-11	Copper	22.1 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308002	Soil	BRC-BKG-04B-9-11	Iron	19100 N			mg/kg	14-Jun-05		1.173
F5F160308002	Soil	BRC-BKG-04B-9-11	Lead	7.3			mg/kg	14-Jun-05		0.0506
F5F160308002	Soil	BRC-BKG-04B-9-11	Lithium	10			mg/kg	14-Jun-05		0.2425
F5F160308002	Soil	BRC-BKG-04B-9-11	Magnesium	12500 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308002	Soil	BRC-BKG-04B-9-11	Manganese	641 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308002	Soil	BRC-BKG-04B-9-11	Mercury	0.028 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308002	Soil	BRC-BKG-04B-9-11	Molybdenum	0.6 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308002	Soil	BRC-BKG-04B-9-11	Nickel	20.3 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308002	Soil	BRC-BKG-04B-9-11	Niobium	1.6 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308002	Soil	BRC-BKG-04B-9-11	Palladium	0.71			mg/kg	14-Jun-05		0.0765
F5F160308002	Soil	BRC-BKG-04B-9-11	Phosphorus	1960 N			mg/kg	14-Jun-05		1.913
F5F160308002	Soil	BRC-BKG-04B-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308002	Soil	BRC-BKG-04B-9-11	Potassium	1360 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308002	Soil	BRC-BKG-04B-9-11	Selenium	0.26 B	J	g	mg/kg	14-Jun-05		0.1579
F5F160308002	Soil	BRC-BKG-04B-9-11	Silicon	535 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308002	Soil	BRC-BKG-04B-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308002	Soil	BRC-BKG-04B-9-11	Sodium	784			mg/kg	14-Jun-05		7.567
F5F160308002	Soil	BRC-BKG-04B-9-11	Strontium	406 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308002	Soil	BRC-BKG-04B-9-11	Thallium	1.5			mg/kg	14-Jun-05		0.5428
F5F160308002	Soil	BRC-BKG-04B-9-11	Tin	0.63 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308002	Soil	BRC-BKG-04B-9-11	Titanium	758 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308002	Soil	BRC-BKG-04B-9-11	Tungsten	2 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308002	Soil	BRC-BKG-04B-9-11	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308002	Soil	BRC-BKG-04B-9-11	Vanadium	57.5 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308002	Soil	BRC-BKG-04B-9-11	Zinc	43.4			mg/kg	14-Jun-05		0.2207
F5F160308002	Soil	BRC-BKG-04B-9-11	Zirconium	177 NE	J	j	mg/kg	14-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Chloride	U			mg/kg	14-Jun-05		0.25
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Sulfate	1.6 B J	U	b	mg/kg	14-Jun-05		0.612
F5F160308006	Soil	BRC-BKG-04C-0-0.5	CEC	16.3 J	J	g	meq/100g	14-Jun-05		
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308006	Soil	BRC-BKG-04C-0-0.5	pH (solid)	9	J	h	none	14-Jun-05		
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Actinium 227 [d]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Actinium 228	2.03			pCi/g	14-Jun-05	0.7	0.36
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Bismuth 210 [e]	0.2 U			pCi/g	14-Jun-05	1.1	2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Bismuth 211 [f]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Bismuth 212	0.69 U			pCi/g	14-Jun-05	0.48	0.99
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Bismuth 214	0.69			pCi/g	14-Jun-05	0.21	0.38
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Cobalt 57	0.01 U			pCi/g	14-Jun-05	0.03	0.055
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Cobalt 60	0.026 U			pCi/g	14-Jun-05	0.049	0.11
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lead 210	0.2 U			pCi/g	14-Jun-05	1.1	2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lead 211 [g]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lead 212	1.08			pCi/g	14-Jun-05	0.23	0.14
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lead 214	0.81			pCi/g	14-Jun-05	0.22	0.16
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Polonium 210 [h]	0.2 U			pCi/g	14-Jun-05	1.1	2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Polonium 212 [i]	0.44 U			pCi/g	14-Jun-05	0.3	0.63
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Polonium 214 [j]	0.69			pCi/g	14-Jun-05	0.21	0.18
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Polonium 215 [k]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Polonium 216 [l]	1.08			pCi/g	14-Jun-05	0.23	0.14
HDRE91C4	Soil	BRC-BKG-04C-0-0.5	Polonium 218 [m]	0.494 J	J	k	pCi/g	14-Jun-05	0.097	0.196
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Potassium 40	24			pCi/g	14-Jun-05	3.6	0.5
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Protactinium 234	-0.03 U			pCi/g	14-Jun-05	0.17	0.29
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Radium 223 [n]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Radium 224 [o]	1.08			pCi/g	14-Jun-05	0.23	0.14
HDRE91C4	Soil	BRC-BKG-04C-0-0.5	Radium 226	0.494 J	J	k	pCi/g	14-Jun-05	0.097	0.196
HDRE91C5	Soil	BRC-BKG-04C-0-0.5	Radium 228	1.6 J	R	k, e	pCi/g	14-Jun-05	0.24	0.764
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thallium 207 [p]	-0.27 U			pCi/g	14-Jun-05	0.41	0.68

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thallium 208	0.41			pCi/g	14-Jun-05	0.13	0.1
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 227	-0.27 U			pCi/g	14-Jun-05	0.41	0.68
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 228	1.76			pCi/g	14-Jun-05	0.33	0.15
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 230	0.86 J	J	k	pCi/g	14-Jun-05	0.21	0.06
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 231	0.061 J	U	b	pCi/g	14-Jun-05	0.068	0.041
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 232	1.34			pCi/g	14-Jun-05	0.27	0.07
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thorium 234	1.68			pCi/g	14-Jun-05	0.74	1.2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Uranium 233/234	0.85 J	U	b	pCi/g	14-Jun-05	0.22	0.06
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Uranium 235	0.061 J	J	k	pCi/g	14-Jun-05	0.068	0.041
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Uranium 238	0.84 J	J	k	pCi/g	14-Jun-05	0.22	0.06
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Moisture (%)	1.5			percent	14-Jun-05		
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Aluminum	13300 NE	J	j	mg/kg	14-Jun-05		2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Arsenic	2.5			mg/kg	14-Jun-05		0.1278
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Barium	445 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Beryllium	0.41 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Boron	3.8 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Calcium	19500 N			mg/kg	14-Jun-05		1.028
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Chromium	7.7			mg/kg	14-Jun-05		0.1841
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Cobalt	14.6 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Copper	23.8 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Iron	16600 N			mg/kg	14-Jun-05		1.173
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lead	6			mg/kg	14-Jun-05		0.0506
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Lithium	8.4			mg/kg	14-Jun-05		0.2425
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Magnesium	13400 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Manganese	593 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Mercury	0.029 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Molybdenum	0.36 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Nickel	30 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Niobium	1.5 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Palladium	1.5			mg/kg	14-Jun-05		0.0765
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Phosphorus	1890 N			mg/kg	14-Jun-05		1.913

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Potassium	1820 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Silicon	562 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Sodium	279			mg/kg	14-Jun-05		7.567
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Strontium	808 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Thallium	1.3			mg/kg	14-Jun-05		0.5428
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Tin	0.65 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Titanium	779 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Tungsten	1.5 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Vanadium	57.3 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Zinc	38.5			mg/kg	14-Jun-05		0.2207
F5F160308006	Soil	BRC-BKG-04C-0-0.5	Zirconium	176 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Chloride	0.74 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Sulfate	5.2 J			mg/kg	14-Jun-05		0.612
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	CEC	15.3 J	J	g	meq/100g	14-Jun-05		
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	pH (solid)	8.7	R	h	none	14-Jun-05		
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Actinium 227 [d]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Actinium 228	1.32			pCi/g	14-Jun-05	0.53	0.33
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Bismuth 210 [e]	0.06 U			pCi/g	14-Jun-05	1.1	2
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Bismuth 211 [f]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Bismuth 212	0.29 U			pCi/g	14-Jun-05	0.47	0.9
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Bismuth 214	0.74			pCi/g	14-Jun-05	0.21	0.38
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Cobalt 57	0.008 U			pCi/g	14-Jun-05	0.03	0.054
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Cobalt 60	-0.053 U			pCi/g	14-Jun-05	0.059	0.095
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lead 210	0.06 U			pCi/g	14-Jun-05	1.1	2
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lead 211 [g]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lead 212	1.2			pCi/g	14-Jun-05	0.21	0.17
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lead 214	0.82			pCi/g	14-Jun-05	0.21	0.15
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Polonium 210 [h]	0.06 U			pCi/g	14-Jun-05	1.1	2
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Polonium 212 [i]	0.19 U			pCi/g	14-Jun-05	0.3	0.57
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Polonium 214 [j]	0.74			pCi/g	14-Jun-05	0.21	0.16
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Polonium 215 [k]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Polonium 216 [l]	1.2			pCi/g	14-Jun-05	0.21	0.17
HDRFQ1C4	Soil	BRC-BKG-04C1-0-0.5	Polonium 218 [m]	0.595 J	J	k	pCi/g	14-Jun-05	0.1	0.214
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Potassium 40	22.8			pCi/g	14-Jun-05	3.5	1.1
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Protactinium 234	-0.01 U			pCi/g	14-Jun-05	0.15	0.27
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Radium 223 [n]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Radium 224 [o]	1.2			pCi/g	14-Jun-05	0.21	0.17
HDRFQ1C4	Soil	BRC-BKG-04C1-0-0.5	Radium 226	0.595 J	J	k	pCi/g	14-Jun-05	0.1	0.214
HDRFQ2C5	Soil	BRC-BKG-04C1-0-0.5	Radium 228	1.82 J	U	k, b	pCi/g	14-Jun-05	0.22	0.495
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thallium 207 [p]	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thallium 208	0.49			pCi/g	14-Jun-05	0.12	0.08
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 227	-0.42 U			pCi/g	14-Jun-05	0.42	0.66
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 228	1.41			pCi/g	14-Jun-05	0.29	0.14
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 230	0.82 J	J	k	pCi/g	14-Jun-05	0.21	0.08
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 231	0.032 U			pCi/g	14-Jun-05	0.061	0.095
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 232	1.43			pCi/g	14-Jun-05	0.29	0.07
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thorium 234	1.36			pCi/g	14-Jun-05	0.68	1.1
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Uranium 233/234	0.68 J	U	b	pCi/g	14-Jun-05	0.21	0.12
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Uranium 235	0.032 U			pCi/g	14-Jun-05	0.061	0.095
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Uranium 238	0.81 J	J	k	pCi/g	14-Jun-05	0.22	0.09
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Moisture (%)	0.79			percent	14-Jun-05		
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Aluminum	10600 N			mg/kg	14-Jun-05		2
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Antimony	0.28 BN	J-	e, g	mg/kg	14-Jun-05		0.3298
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Arsenic	3.4			mg/kg	14-Jun-05		0.1278
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Barium	157			mg/kg	14-Jun-05		0.152
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Beryllium	0.65			mg/kg	14-Jun-05		0.038
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Boron	5.6	J+	b	mg/kg	14-Jun-05		3.2
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Cadmium	U			mg/kg	14-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Calcium	23400 N			mg/kg	14-Jun-05		1.028
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Chromium	11.9			mg/kg	14-Jun-05		0.1841
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Cobalt	9.5 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Copper	15.7			mg/kg	14-Jun-05		0.2205
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Iron	19700 N			mg/kg	14-Jun-05		1.173
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lead	9.4			mg/kg	14-Jun-05		0.0506
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Lithium	10.8			mg/kg	14-Jun-05		0.2425
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Magnesium	12100			mg/kg	14-Jun-05		1.176
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Manganese	481 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Mercury	0.034			mg/kg	14-Jun-05		0.0072
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Molybdenum	0.36 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Nickel	15.3 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Niobium	2.8 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Palladium	0.37			mg/kg	14-Jun-05		0.0765
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Phosphorus	1730 N			mg/kg	14-Jun-05		1.913
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Potassium	1720			mg/kg	14-Jun-05		2.079
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Selenium	0.39 B	J	g	mg/kg	14-Jun-05		0.1579
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Silicon	1210 N			mg/kg	14-Jun-05		0.5289
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Silver	N U			mg/kg	14-Jun-05		0.2609
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Sodium	309			mg/kg	14-Jun-05		7.567
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Strontium	165 N	J-	e	mg/kg	14-Jun-05		0.0735
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Thallium	0.5 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Tin	0.5 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Titanium	510 N			mg/kg	14-Jun-05		0.1175
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Tungsten	1.6 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Uranium	0.62 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Vanadium	43.9 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Zinc	49.1			mg/kg	14-Jun-05		0.2207
F5F160308010	Soil	BRC-BKG-04C1-0-0.5	Zirconium	119 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308007	Soil	BRC-BKG-04C-4-6	Chloride	1.8 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308007	Soil	BRC-BKG-04C-4-6	Fluoride	1 B J	U	b	mg/kg	14-Jun-05		0.051
F5F160308007	Soil	BRC-BKG-04C-4-6	Nitrate	0.71	J	h	mg/kg	14-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308007	Soil	BRC-BKG-04C-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308007	Soil	BRC-BKG-04C-4-6	Sulfate	7.5 J			mg/kg	14-Jun-05		0.612
F5F160308007	Soil	BRC-BKG-04C-4-6	CEC	14.7 J	J	g	meq/100g	14-Jun-05		
F5F160308007	Soil	BRC-BKG-04C-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308007	Soil	BRC-BKG-04C-4-6	pH (solid)	9	J	h	none	14-Jun-05		
F5F160308007	Soil	BRC-BKG-04C-4-6	Actinium 227 [d]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Actinium 228	1.94			pCi/g	14-Jun-05	0.62	0.39
F5F160308007	Soil	BRC-BKG-04C-4-6	Bismuth 210 [e]	-0.3 U			pCi/g	14-Jun-05	0.94	1.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Bismuth 211 [f]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Bismuth 212	0.53 U			pCi/g	14-Jun-05	0.53	0.55
F5F160308007	Soil	BRC-BKG-04C-4-6	Bismuth 214	0.66			pCi/g	14-Jun-05	0.18	0.33
F5F160308007	Soil	BRC-BKG-04C-4-6	Cobalt 57	-0.027 U			pCi/g	14-Jun-05	0.027	0.042
F5F160308007	Soil	BRC-BKG-04C-4-6	Cobalt 60	0.04 U			pCi/g	14-Jun-05	0.051	0.11
F5F160308007	Soil	BRC-BKG-04C-4-6	Lead 210	-0.3 U			pCi/g	14-Jun-05	0.94	1.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Lead 211 [g]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Lead 212	1.37			pCi/g	14-Jun-05	0.23	0.17
F5F160308007	Soil	BRC-BKG-04C-4-6	Lead 214	0.74			pCi/g	14-Jun-05	0.18	0.14
F5F160308007	Soil	BRC-BKG-04C-4-6	Polonium 210 [h]	-0.3 U			pCi/g	14-Jun-05	0.94	1.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Polonium 212 [i]	0.34 U			pCi/g	14-Jun-05	0.34	0.35
F5F160308007	Soil	BRC-BKG-04C-4-6	Polonium 214 [j]	0.66			pCi/g	14-Jun-05	0.18	0.13
F5F160308007	Soil	BRC-BKG-04C-4-6	Polonium 215 [k]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Polonium 216 [l]	1.37			pCi/g	14-Jun-05	0.23	0.17
HDRFE1C4	Soil	BRC-BKG-04C-4-6	Polonium 218 [m]	0.817 J	J	k, n	pCi/g	14-Jun-05	0.11	0.134
F5F160308007	Soil	BRC-BKG-04C-4-6	Potassium 40	24.1			pCi/g	14-Jun-05	3.5	0.8
F5F160308007	Soil	BRC-BKG-04C-4-6	Protactinium 234	-0.07 U			pCi/g	14-Jun-05	0.13	0.23
F5F160308007	Soil	BRC-BKG-04C-4-6	Radium 223 [n]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Radium 224 [o]	1.37			pCi/g	14-Jun-05	0.23	0.17
HDRFE1C4	Soil	BRC-BKG-04C-4-6	Radium 226	0.817 J	J	k, n	pCi/g	14-Jun-05	0.11	0.134
HDRFE2C5	Soil	BRC-BKG-04C-4-6	Radium 228	1.47 J	U	k, b	pCi/g	14-Jun-05	0.2	0.597
F5F160308007	Soil	BRC-BKG-04C-4-6	Thallium 207 [p]	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Thallium 208	0.48			pCi/g	14-Jun-05	0.11	0.08
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 227	0.15 U			pCi/g	14-Jun-05	0.38	0.7
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 228	1.4			pCi/g	14-Jun-05	0.32	0.16

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 230	1.05			pCi/g	14-Jun-05	0.26	0.09
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 231	0.084 U			pCi/g	14-Jun-05	0.085	0.1
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 232	1.38			pCi/g	14-Jun-05	0.3	0.07
F5F160308007	Soil	BRC-BKG-04C-4-6	Thorium 234	1.35			pCi/g	14-Jun-05	0.94	0.83
F5F160308007	Soil	BRC-BKG-04C-4-6	Uranium 233/234	0.76 J	U	b	pCi/g	14-Jun-05	0.21	0.11
F5F160308007	Soil	BRC-BKG-04C-4-6	Uranium 235	0.084 U			pCi/g	14-Jun-05	0.085	0.1
F5F160308007	Soil	BRC-BKG-04C-4-6	Uranium 238	1.02			pCi/g	14-Jun-05	0.24	0.08
F5F160308007	Soil	BRC-BKG-04C-4-6	Moisture (%)	4.9			percent	14-Jun-05		
F5F160308007	Soil	BRC-BKG-04C-4-6	Aluminum	10900 NE	J	j	mg/kg	14-Jun-05		2
F5F160308007	Soil	BRC-BKG-04C-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308007	Soil	BRC-BKG-04C-4-6	Arsenic	2.9			mg/kg	14-Jun-05		0.1278
F5F160308007	Soil	BRC-BKG-04C-4-6	Barium	188 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308007	Soil	BRC-BKG-04C-4-6	Beryllium	0.46 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308007	Soil	BRC-BKG-04C-4-6	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308007	Soil	BRC-BKG-04C-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308007	Soil	BRC-BKG-04C-4-6	Calcium	21300 N			mg/kg	14-Jun-05		1.028
F5F160308007	Soil	BRC-BKG-04C-4-6	Chromium	7.5			mg/kg	14-Jun-05		0.1841
F5F160308007	Soil	BRC-BKG-04C-4-6	Cobalt	10.6 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308007	Soil	BRC-BKG-04C-4-6	Copper	20.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308007	Soil	BRC-BKG-04C-4-6	Iron	18500 N			mg/kg	14-Jun-05		1.173
F5F160308007	Soil	BRC-BKG-04C-4-6	Lead	6.6			mg/kg	14-Jun-05		0.0506
F5F160308007	Soil	BRC-BKG-04C-4-6	Lithium	9.8			mg/kg	14-Jun-05		0.2425
F5F160308007	Soil	BRC-BKG-04C-4-6	Magnesium	11700 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308007	Soil	BRC-BKG-04C-4-6	Manganese	471 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308007	Soil	BRC-BKG-04C-4-6	Mercury	0.03 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308007	Soil	BRC-BKG-04C-4-6	Molybdenum	0.33 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308007	Soil	BRC-BKG-04C-4-6	Nickel	19 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308007	Soil	BRC-BKG-04C-4-6	Niobium	1.1 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308007	Soil	BRC-BKG-04C-4-6	Palladium	0.42			mg/kg	14-Jun-05		0.0765
F5F160308007	Soil	BRC-BKG-04C-4-6	Phosphorus	1870 N			mg/kg	14-Jun-05		1.913
F5F160308007	Soil	BRC-BKG-04C-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308007	Soil	BRC-BKG-04C-4-6	Potassium	1210 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308007	Soil	BRC-BKG-04C-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308007	Soil	BRC-BKG-04C-4-6	Silicon	543 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308007	Soil	BRC-BKG-04C-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308007	Soil	BRC-BKG-04C-4-6	Sodium	617			mg/kg	14-Jun-05		7.567
F5F160308007	Soil	BRC-BKG-04C-4-6	Strontium	182 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308007	Soil	BRC-BKG-04C-4-6	Thallium	1.8			mg/kg	14-Jun-05		0.5428
F5F160308007	Soil	BRC-BKG-04C-4-6	Tin	0.53 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308007	Soil	BRC-BKG-04C-4-6	Titanium	749 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308007	Soil	BRC-BKG-04C-4-6	Tungsten	1.2 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308007	Soil	BRC-BKG-04C-4-6	Uranium	1 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308007	Soil	BRC-BKG-04C-4-6	Vanadium	49.2 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308007	Soil	BRC-BKG-04C-4-6	Zinc	43.2			mg/kg	14-Jun-05		0.2207
F5F160308007	Soil	BRC-BKG-04C-4-6	Zirconium	178 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308008	Soil	BRC-BKG-04C-9-11	Chloride	1.6 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308008	Soil	BRC-BKG-04C-9-11	Fluoride	1.6 J	U	b	mg/kg	14-Jun-05		0.051
F5F160308008	Soil	BRC-BKG-04C-9-11	Nitrate	1	J	h	mg/kg	14-Jun-05		0.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308008	Soil	BRC-BKG-04C-9-11	Sulfate	83.5 J			mg/kg	14-Jun-05		0.612
F5F160308008	Soil	BRC-BKG-04C-9-11	CEC	10 J	J	g	meq/100g	14-Jun-05		
F5F160308008	Soil	BRC-BKG-04C-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308008	Soil	BRC-BKG-04C-9-11	pH (solid)	8.9	J	h	none	14-Jun-05		
F5F160308008	Soil	BRC-BKG-04C-9-11	Actinium 227 [d]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Actinium 228	1.3			pCi/g	14-Jun-05	0.55	0.36
F5F160308008	Soil	BRC-BKG-04C-9-11	Bismuth 210 [e]	-0.1 U			pCi/g	14-Jun-05	1.2	2.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Bismuth 211 [f]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Bismuth 212	0.99			pCi/g	14-Jun-05	0.59	0.71
F5F160308008	Soil	BRC-BKG-04C-9-11	Bismuth 214	0.64			pCi/g	14-Jun-05	0.2	0.17
F5F160308008	Soil	BRC-BKG-04C-9-11	Cobalt 57	0.012 U			pCi/g	14-Jun-05	0.028	0.05
F5F160308008	Soil	BRC-BKG-04C-9-11	Cobalt 60	0.028 U			pCi/g	14-Jun-05	0.055	0.12
F5F160308008	Soil	BRC-BKG-04C-9-11	Lead 210	-0.1 U			pCi/g	14-Jun-05	1.2	2.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Lead 211 [g]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Lead 212	1.33			pCi/g	14-Jun-05	0.22	0.13
F5F160308008	Soil	BRC-BKG-04C-9-11	Lead 214	0.77			pCi/g	14-Jun-05	0.21	0.15
F5F160308008	Soil	BRC-BKG-04C-9-11	Polonium 210 [h]	-0.1 U			pCi/g	14-Jun-05	1.2	2.1

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308008	Soil	BRC-BKG-04C-9-11	Polonium 212 [i]	0.63			pCi/g	14-Jun-05	0.38	0.45
F5F160308008	Soil	BRC-BKG-04C-9-11	Polonium 214 [j]	0.64			pCi/g	14-Jun-05	0.2	0.17
F5F160308008	Soil	BRC-BKG-04C-9-11	Polonium 215 [k]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Polonium 216 [l]	1.33			pCi/g	14-Jun-05	0.22	0.13
HDRFG1C4	Soil	BRC-BKG-04C-9-11	Polonium 218 [m]	0.925 J	J	k	pCi/g	14-Jun-05	0.14	0.143
F5F160308008	Soil	BRC-BKG-04C-9-11	Potassium 40	22			pCi/g	14-Jun-05	3.3	1
F5F160308008	Soil	BRC-BKG-04C-9-11	Protactinium 234	-0.04 U			pCi/g	14-Jun-05	0.15	0.26
F5F160308008	Soil	BRC-BKG-04C-9-11	Radium 223 [n]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Radium 224 [o]	1.33			pCi/g	14-Jun-05	0.22	0.13
HDRFG1C4	Soil	BRC-BKG-04C-9-11	Radium 226	0.925 J	J	k	pCi/g	14-Jun-05	0.14	0.143
HDRFG2C5	Soil	BRC-BKG-04C-9-11	Radium 228	0.946 J	U	k, b	pCi/g	14-Jun-05	0.16	0.446
F5F160308008	Soil	BRC-BKG-04C-9-11	Thallium 207 [p]	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Thallium 208	0.39			pCi/g	14-Jun-05	0.13	0.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 227	0.04 U			pCi/g	14-Jun-05	0.44	0.78
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 228	1.82			pCi/g	14-Jun-05	0.34	0.14
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 230	0.92 J	J	k	pCi/g	14-Jun-05	0.23	0.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 231	0.101 J	U	b	pCi/g	14-Jun-05	0.089	0.096
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 232	1.69			pCi/g	14-Jun-05	0.31	0.05
F5F160308008	Soil	BRC-BKG-04C-9-11	Thorium 234	0.24 U			pCi/g	14-Jun-05	0.65	1
F5F160308008	Soil	BRC-BKG-04C-9-11	Uranium 233/234	0.86 J	U	b	pCi/g	14-Jun-05	0.23	0.1
F5F160308008	Soil	BRC-BKG-04C-9-11	Uranium 235	0.101 J	J	k	pCi/g	14-Jun-05	0.089	0.096
F5F160308008	Soil	BRC-BKG-04C-9-11	Uranium 238	1.06			pCi/g	14-Jun-05	0.25	0.09
F5F160308008	Soil	BRC-BKG-04C-9-11	Moisture (%)	4.1			percent	14-Jun-05		
F5F160308008	Soil	BRC-BKG-04C-9-11	Aluminum	12200 NE	J	j	mg/kg	14-Jun-05		2
F5F160308008	Soil	BRC-BKG-04C-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308008	Soil	BRC-BKG-04C-9-11	Arsenic	3.2			mg/kg	14-Jun-05		0.1278
F5F160308008	Soil	BRC-BKG-04C-9-11	Barium	197 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308008	Soil	BRC-BKG-04C-9-11	Beryllium	0.47 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308008	Soil	BRC-BKG-04C-9-11	Boron	3.5 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308008	Soil	BRC-BKG-04C-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308008	Soil	BRC-BKG-04C-9-11	Calcium	32000 N			mg/kg	14-Jun-05		1.028
F5F160308008	Soil	BRC-BKG-04C-9-11	Chromium	8.2			mg/kg	14-Jun-05		0.1841
F5F160308008	Soil	BRC-BKG-04C-9-11	Cobalt	12.2 E	J	j	mg/kg	14-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308008	Soil	BRC-BKG-04C-9-11	Copper	18.2 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308008	Soil	BRC-BKG-04C-9-11	Iron	17400 N			mg/kg	14-Jun-05		1.173
F5F160308008	Soil	BRC-BKG-04C-9-11	Lead	6.7			mg/kg	14-Jun-05		0.0506
F5F160308008	Soil	BRC-BKG-04C-9-11	Lithium	9.9			mg/kg	14-Jun-05		0.2425
F5F160308008	Soil	BRC-BKG-04C-9-11	Magnesium	11100 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308008	Soil	BRC-BKG-04C-9-11	Manganese	489 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308008	Soil	BRC-BKG-04C-9-11	Mercury	0.028 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308008	Soil	BRC-BKG-04C-9-11	Molybdenum	0.41 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308008	Soil	BRC-BKG-04C-9-11	Nickel	17.2 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308008	Soil	BRC-BKG-04C-9-11	Niobium	1.1 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308008	Soil	BRC-BKG-04C-9-11	Palladium	0.59			mg/kg	14-Jun-05		0.0765
F5F160308008	Soil	BRC-BKG-04C-9-11	Phosphorus	1800 N			mg/kg	14-Jun-05		1.913
F5F160308008	Soil	BRC-BKG-04C-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308008	Soil	BRC-BKG-04C-9-11	Potassium	1250 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308008	Soil	BRC-BKG-04C-9-11	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308008	Soil	BRC-BKG-04C-9-11	Silicon	631 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308008	Soil	BRC-BKG-04C-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308008	Soil	BRC-BKG-04C-9-11	Sodium	712			mg/kg	14-Jun-05		7.567
F5F160308008	Soil	BRC-BKG-04C-9-11	Strontium	258 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308008	Soil	BRC-BKG-04C-9-11	Thallium	1.2			mg/kg	14-Jun-05		0.5428
F5F160308008	Soil	BRC-BKG-04C-9-11	Tin	0.53 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308008	Soil	BRC-BKG-04C-9-11	Titanium	739 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308008	Soil	BRC-BKG-04C-9-11	Tungsten	1.2 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308008	Soil	BRC-BKG-04C-9-11	Uranium	0.92 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308008	Soil	BRC-BKG-04C-9-11	Vanadium	47.1 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308008	Soil	BRC-BKG-04C-9-11	Zinc	41.6			mg/kg	14-Jun-05		0.2207
F5F160308008	Soil	BRC-BKG-04C-9-11	Zirconium	165 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Chloride	1.1 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Nitrate	3.3	J	h	mg/kg	14-Jun-05		0.1
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Sulfate	3 B	U	b	mg/kg	14-Jun-05		0.612
F5F160308013	Soil	BRC-BKG-05A-0-0.5	CEC	15.9 J	J	g	meq/100g	14-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308013	Soil	BRC-BKG-05A-0-0.5	pH (solid)	8.8	J	h	none	14-Jun-05		
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Actinium 227 [d]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Actinium 228	1.76			pCi/g	14-Jun-05	0.66	0.41
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Bismuth 210 [e]	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Bismuth 211 [f]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Bismuth 212	0.89			pCi/g	14-Jun-05	0.58	0.62
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Bismuth 214	0.91			pCi/g	14-Jun-05	0.22	0.36
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Cobalt 57	0.016 U			pCi/g	14-Jun-05	0.029	0.05
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Cobalt 60	-0.017 U			pCi/g	14-Jun-05	0.055	0.098
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lead 210	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lead 211 [g]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lead 212	1.9			pCi/g	14-Jun-05	0.27	0.12
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lead 214	0.98			pCi/g	14-Jun-05	0.21	0.15
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Polonium 210 [h]	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Polonium 212 [i]	0.57			pCi/g	14-Jun-05	0.37	0.4
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Polonium 214 [j]	0.91			pCi/g	14-Jun-05	0.22	0.19
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Polonium 215 [k]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Polonium 216 [l]	1.9			pCi/g	14-Jun-05	0.27	0.12
HDRGG1C6	Soil	BRC-BKG-05A-0-0.5	Polonium 218 [m]	0.714 J	J	k, n	pCi/g	14-Jun-05	0.1	0.0936
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Potassium 40	25.6			pCi/g	14-Jun-05	3.7	0.8
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Protactinium 234	-0.18 U			pCi/g	14-Jun-05	0.14	0.23
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Radium 223 [n]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Radium 224 [o]	1.9			pCi/g	14-Jun-05	0.27	0.12
HDRGG1C6	Soil	BRC-BKG-05A-0-0.5	Radium 226	0.714 J	J	k, n	pCi/g	14-Jun-05	0.1	0.0936
HDRGG2C7	Soil	BRC-BKG-05A-0-0.5	Radium 228	2.37			pCi/g	14-Jun-05	0.25	0.469
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thallium 207 [p]	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thallium 208	0.69			pCi/g	14-Jun-05	0.15	0.09
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 227	0.36 U			pCi/g	14-Jun-05	0.41	0.76
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 228	2.01			pCi/g	14-Jun-05	0.39	0.27
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 230	0.93 J	J	k	pCi/g	14-Jun-05	0.23	0.1
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 231	0.048 U			pCi/g	14-Jun-05	0.064	0.085
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 232	1.53			pCi/g	14-Jun-05	0.29	0.06

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thorium 234	2.06			pCi/g	14-Jun-05	0.55	0.95
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Uranium 233/234	0.9 J	U	b	pCi/g	14-Jun-05	0.23	0.1
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Uranium 235	0.048 U			pCi/g	14-Jun-05	0.064	0.085
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Uranium 238	1			pCi/g	14-Jun-05	0.24	0.07
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Moisture (%)	1.6			percent	14-Jun-05		
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Aluminum	7240 NE	J	j	mg/kg	14-Jun-05		2
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Arsenic	2.6			mg/kg	14-Jun-05		0.1278
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Barium	152 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Beryllium	0.35 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Calcium	13500 N			mg/kg	14-Jun-05		1.028
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Chromium	3.6			mg/kg	14-Jun-05		0.1841
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Cobalt	8.8 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Copper	23.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Iron	10500 N			mg/kg	14-Jun-05		1.173
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lead	9.1			mg/kg	14-Jun-05		0.0506
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Lithium	9.6			mg/kg	14-Jun-05		0.2425
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Magnesium	9830 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Manganese	503 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Mercury	0.033 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Molybdenum	0.39 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Nickel	18.9 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Niobium	1.3 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Palladium	0.27			mg/kg	14-Jun-05		0.0765
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Phosphorus	1620 N			mg/kg	14-Jun-05		1.913
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Potassium	1770 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Silicon	335 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Sodium	175			mg/kg	14-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Strontium	142 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Thallium	1 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Tin	0.59 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Titanium	839 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Tungsten	0.86 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Uranium	1.2			mg/kg	14-Jun-05		0.038
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Vanadium	38.4 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Zinc	29.3			mg/kg	14-Jun-05		0.2207
F5F160308013	Soil	BRC-BKG-05A-0-0.5	Zirconium	167 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308014	Soil	BRC-BKG-05A-4-6	Chloride	1.8 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308014	Soil	BRC-BKG-05A-4-6	Fluoride	2.1	U	b	mg/kg	14-Jun-05		0.051
F5F160308014	Soil	BRC-BKG-05A-4-6	Nitrate	0.93	J	h	mg/kg	14-Jun-05		0.1
F5F160308014	Soil	BRC-BKG-05A-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308014	Soil	BRC-BKG-05A-4-6	Sulfate	132			mg/kg	14-Jun-05		0.612
F5F160308014	Soil	BRC-BKG-05A-4-6	CEC	18.4 J	J	g	meq/100g	14-Jun-05		
F5F160308014	Soil	BRC-BKG-05A-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308014	Soil	BRC-BKG-05A-4-6	pH (solid)	8.7	J	h	none	14-Jun-05		
F5F160308014	Soil	BRC-BKG-05A-4-6	Actinium 227 [d]	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Actinium 228	2.28			pCi/g	14-Jun-05	0.77	0.43
F5F160308014	Soil	BRC-BKG-05A-4-6	Bismuth 210 [e]	0.8 U			pCi/g	14-Jun-05	1.4	2.5
F5F160308014	Soil	BRC-BKG-05A-4-6	Bismuth 211 [f]	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Bismuth 212	1.22			pCi/g	14-Jun-05	0.77	0.82
F5F160308014	Soil	BRC-BKG-05A-4-6	Bismuth 214	0.92			pCi/g	14-Jun-05	0.25	0.44
F5F160308014	Soil	BRC-BKG-05A-4-6	Cobalt 57	-0.037 U			pCi/g	14-Jun-05	0.037	0.061
F5F160308014	Soil	BRC-BKG-05A-4-6	Cobalt 60	-0.011 U			pCi/g	14-Jun-05	0.06	0.11
F5F160308014	Soil	BRC-BKG-05A-4-6	Lead 210	0.8 U			pCi/g	14-Jun-05	1.4	2.5
F5F160308014	Soil	BRC-BKG-05A-4-6	Lead 211 [g]	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Lead 212	1.93			pCi/g	14-Jun-05	0.29	0.14
F5F160308014	Soil	BRC-BKG-05A-4-6	Lead 214	1.08			pCi/g	14-Jun-05	0.25	0.18
F5F160308014	Soil	BRC-BKG-05A-4-6	Polonium 210 [h]	0.8 U			pCi/g	14-Jun-05	1.4	2.5
F5F160308014	Soil	BRC-BKG-05A-4-6	Polonium 212 [i]	0.78			pCi/g	14-Jun-05	0.49	0.53
F5F160308014	Soil	BRC-BKG-05A-4-6	Polonium 214 [j]	0.92			pCi/g	14-Jun-05	0.25	0.22
F5F160308014	Soil	BRC-BKG-05A-4-6	Polonium 215 [k]	0.3 U			pCi/g	14-Jun-05	0.52	0.95

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308014	Soil	BRC-BKG-05A-4-6	Polonium 216 [l]	1.93			pCi/g	14-Jun-05	0.29	0.14
HDRGN1C4	Soil	BRC-BKG-05A-4-6	Polonium 218 [m]	1.15			pCi/g	14-Jun-05	0.15	0.135
F5F160308014	Soil	BRC-BKG-05A-4-6	Potassium 40	22			pCi/g	14-Jun-05	3.6	1.2
F5F160308014	Soil	BRC-BKG-05A-4-6	Protactinium 234	0.05 U			pCi/g	14-Jun-05	0.19	0.34
F5F160308014	Soil	BRC-BKG-05A-4-6	Radium 223 [n]	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Radium 224 [o]	1.93			pCi/g	14-Jun-05	0.29	0.14
HDRGN1C4	Soil	BRC-BKG-05A-4-6	Radium 226	1.15			pCi/g	14-Jun-05	0.15	0.135
HDRGN2C5	Soil	BRC-BKG-05A-4-6	Radium 228	1.5 J	U	k, b	pCi/g	14-Jun-05	0.21	0.537
F5F160308014	Soil	BRC-BKG-05A-4-6	Thallium 207 [p]	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Thallium 208	0.6			pCi/g	14-Jun-05	0.15	0.1
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 227	0.3 U			pCi/g	14-Jun-05	0.52	0.95
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 228	2.03			pCi/g	14-Jun-05	0.36	0.15
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 230	1.08			pCi/g	14-Jun-05	0.24	0.07
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 231	0.083 J	U	b	pCi/g	14-Jun-05	0.082	0.045
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 232	1.55			pCi/g	14-Jun-05	0.29	0.05
F5F160308014	Soil	BRC-BKG-05A-4-6	Thorium 234	2.3			pCi/g	14-Jun-05	1.1	1.4
F5F160308014	Soil	BRC-BKG-05A-4-6	Uranium 233/234	0.83 J	U	b	pCi/g	14-Jun-05	0.23	0.08
F5F160308014	Soil	BRC-BKG-05A-4-6	Uranium 235	0.083 J	J	k	pCi/g	14-Jun-05	0.082	0.045
F5F160308014	Soil	BRC-BKG-05A-4-6	Uranium 238	1.16			pCi/g	14-Jun-05	0.27	0.06
F5F160308014	Soil	BRC-BKG-05A-4-6	Moisture (%)	7.4			percent	14-Jun-05		
F5F160308014	Soil	BRC-BKG-05A-4-6	Aluminum	10600 NE	J	j	mg/kg	14-Jun-05		2
F5F160308014	Soil	BRC-BKG-05A-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308014	Soil	BRC-BKG-05A-4-6	Arsenic	3.6			mg/kg	14-Jun-05		0.1278
F5F160308014	Soil	BRC-BKG-05A-4-6	Barium	143 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308014	Soil	BRC-BKG-05A-4-6	Beryllium	0.54 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308014	Soil	BRC-BKG-05A-4-6	Boron	3.6 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308014	Soil	BRC-BKG-05A-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308014	Soil	BRC-BKG-05A-4-6	Calcium	16500 N			mg/kg	14-Jun-05		1.028
F5F160308014	Soil	BRC-BKG-05A-4-6	Chromium	12.1			mg/kg	14-Jun-05		0.1841
F5F160308014	Soil	BRC-BKG-05A-4-6	Cobalt	11.4 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308014	Soil	BRC-BKG-05A-4-6	Copper	20.5 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308014	Soil	BRC-BKG-05A-4-6	Iron	16200 N			mg/kg	14-Jun-05		1.173
F5F160308014	Soil	BRC-BKG-05A-4-6	Lead	6.4			mg/kg	14-Jun-05		0.0506

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308014	Soil	BRC-BKG-05A-4-6	Lithium	14.3			mg/kg	14-Jun-05		0.2425
F5F160308014	Soil	BRC-BKG-05A-4-6	Magnesium	11200 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308014	Soil	BRC-BKG-05A-4-6	Manganese	369 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308014	Soil	BRC-BKG-05A-4-6	Mercury	0.034 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308014	Soil	BRC-BKG-05A-4-6	Molybdenum	0.51 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308014	Soil	BRC-BKG-05A-4-6	Nickel	22.2 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308014	Soil	BRC-BKG-05A-4-6	Niobium	N U	UJ-	e	mg/kg	14-Jun-05		1.015
F5F160308014	Soil	BRC-BKG-05A-4-6	Palladium	0.3			mg/kg	14-Jun-05		0.0765
F5F160308014	Soil	BRC-BKG-05A-4-6	Phosphorus	1810 N			mg/kg	14-Jun-05		1.913
F5F160308014	Soil	BRC-BKG-05A-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308014	Soil	BRC-BKG-05A-4-6	Potassium	1750 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308014	Soil	BRC-BKG-05A-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308014	Soil	BRC-BKG-05A-4-6	Silicon	489 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308014	Soil	BRC-BKG-05A-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308014	Soil	BRC-BKG-05A-4-6	Sodium	338			mg/kg	14-Jun-05		7.567
F5F160308014	Soil	BRC-BKG-05A-4-6	Strontium	140 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308014	Soil	BRC-BKG-05A-4-6	Thallium	1.8			mg/kg	14-Jun-05		0.5428
F5F160308014	Soil	BRC-BKG-05A-4-6	Tin	0.55 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308014	Soil	BRC-BKG-05A-4-6	Titanium	515 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308014	Soil	BRC-BKG-05A-4-6	Tungsten	1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308014	Soil	BRC-BKG-05A-4-6	Uranium	1 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308014	Soil	BRC-BKG-05A-4-6	Vanadium	42.5 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308014	Soil	BRC-BKG-05A-4-6	Zinc	40.2			mg/kg	14-Jun-05		0.2207
F5F160308014	Soil	BRC-BKG-05A-4-6	Zirconium	179 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Chloride	0.97 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Nitrate	U	UJ	h	mg/kg	17-Jun-05		0.1
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Sulfate	1 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	CEC	15.4			meq/100g	17-Jun-05		
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	pH (solid)	8.7	J	h	none	17-Jun-05		
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Actinium 227 [d]	0.23 U			pCi/g	17-Jun-05	0.43	0.77

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Actinium 228	2.29			pCi/g	17-Jun-05	0.72	0.37
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Bismuth 210 [e]	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Bismuth 211 [f]	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Bismuth 212	1.54			pCi/g	17-Jun-05	0.6	0.65
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Bismuth 214	0.79			pCi/g	17-Jun-05	0.23	0.18
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Cobalt 57	0.002 U			pCi/g	17-Jun-05	0.029	0.05
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Cobalt 60	-0.005 U			pCi/g	17-Jun-05	0.052	0.097
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lead 210	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lead 211 [g]	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lead 212	1.37			pCi/g	17-Jun-05	0.24	0.17
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lead 214	0.96			pCi/g	17-Jun-05	0.23	0.15
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Polonium 210 [h]	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Polonium 212 [i]	0.99			pCi/g	17-Jun-05	0.39	0.42
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Polonium 214 [j]	0.79			pCi/g	17-Jun-05	0.23	0.18
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Polonium 215 [k]	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Polonium 216 [l]	1.37			pCi/g	17-Jun-05	0.24	0.17
HD3DP1C4	Soil	BRC-BKG-05AR-0-0.5	Polonium 218 [m]	1.36			pCi/g	17-Jun-05	0.19	0.134
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Potassium 40	24			pCi/g	17-Jun-05	3.4	0.8
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Protactinium 234	0.12 U			pCi/g	17-Jun-05	0.17	0.26
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Radium 223 [n]	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Radium 224 [o]	1.37			pCi/g	17-Jun-05	0.24	0.17
HD3DP1C4	Soil	BRC-BKG-05AR-0-0.5	Radium 226	1.36			pCi/g	17-Jun-05	0.19	0.134
HD3DP1C5	Soil	BRC-BKG-05AR-0-0.5	Radium 228	2.65			pCi/g	17-Jun-05	0.31	0.811
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thallium 207 [p]	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thallium 208	0.53			pCi/g	17-Jun-05	0.14	0.09
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 227	0.23 U			pCi/g	17-Jun-05	0.43	0.77
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 228	1.71			pCi/g	17-Jun-05	0.44	0.34
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 230	1			pCi/g	17-Jun-05	0.28	0.14
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 231	0.049 U			pCi/g	17-Jun-05	0.053	0.055
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 232	1.75			pCi/g	17-Jun-05	0.38	0.11
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thorium 234	1.77			pCi/g	17-Jun-05	0.5	0.9
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Uranium 233/234	0.83 J	U	b	pCi/g	17-Jun-05	0.2	0.04
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Uranium 235	0.049 U			pCi/g	17-Jun-05	0.053	0.055

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Uranium 238	0.89 J	J	k	pCi/g	17-Jun-05	0.21	0.03
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Moisture (%)	1.2			percent	17-Jun-05		
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Aluminum	7500 NE	J	j	mg/kg	17-Jun-05		2
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Antimony	0.39 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Arsenic	3.7			mg/kg	17-Jun-05		0.1278
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Barium	122 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Beryllium	0.84			mg/kg	17-Jun-05		0.038
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Calcium	14900 N			mg/kg	17-Jun-05		1.028
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Chromium	10.9			mg/kg	17-Jun-05		0.1841
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Cobalt	8.8 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Copper	18.2 N			mg/kg	17-Jun-05		0.2205
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Iron	14500 N			mg/kg	17-Jun-05		1.173
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lead	9.1 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Lithium	11.3			mg/kg	17-Jun-05		0.2425
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Magnesium	9190 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Manganese	357 N			mg/kg	17-Jun-05		0.0131
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Mercury	0.021 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Molybdenum	0.42 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Nickel	17.5 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Niobium	1.6 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Palladium	0.26			mg/kg	17-Jun-05		0.0765
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Phosphorus	1580			mg/kg	17-Jun-05		1.913
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Potassium	1940 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Selenium	0.37 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Silicon	711 N			mg/kg	17-Jun-05		0.5289
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Sodium	138			mg/kg	17-Jun-05		7.567
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Strontium	113			mg/kg	17-Jun-05		0.0735
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Thallium	1.4			mg/kg	17-Jun-05		0.5428
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Tin	0.47 B	J	g	mg/kg	17-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Titanium	535 N			mg/kg	17-Jun-05		0.1175
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Tungsten	1 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Uranium	0.73 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Vanadium	35			mg/kg	17-Jun-05		0.5535
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Zinc	39			mg/kg	17-Jun-05		0.2207
F5F210233017	Soil	BRC-BKG-05AR-0-0.5	Zirconium	127			mg/kg	17-Jun-05		0.0874
F5F210233019	Soil	BRC-BKG-05AR-4-6	Chloride	U			mg/kg	17-Jun-05		0.25
F5F210233019	Soil	BRC-BKG-05AR-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233019	Soil	BRC-BKG-05AR-4-6	Nitrate	0.87	J	h	mg/kg	17-Jun-05		0.1
F5F210233019	Soil	BRC-BKG-05AR-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233019	Soil	BRC-BKG-05AR-4-6	Sulfate	2.2 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233019	Soil	BRC-BKG-05AR-4-6	CEC	14.5			meq/100g	17-Jun-05		
F5F210233019	Soil	BRC-BKG-05AR-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233019	Soil	BRC-BKG-05AR-4-6	pH (solid)	8.9	J	h	none	17-Jun-05		
F5F210233019	Soil	BRC-BKG-05AR-4-6	Actinium 227 [d]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Actinium 228	2.32			pCi/g	17-Jun-05	0.74	0.35
F5F210233019	Soil	BRC-BKG-05AR-4-6	Bismuth 210 [e]	1.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233019	Soil	BRC-BKG-05AR-4-6	Bismuth 211 [f]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Bismuth 212	0.84 U			pCi/g	17-Jun-05	0.55	1.1
F5F210233019	Soil	BRC-BKG-05AR-4-6	Bismuth 214	0.84			pCi/g	17-Jun-05	0.2	0.18
F5F210233019	Soil	BRC-BKG-05AR-4-6	Cobalt 57	-0.021 U			pCi/g	17-Jun-05	0.031	0.053
F5F210233019	Soil	BRC-BKG-05AR-4-6	Cobalt 60	-0.012 U			pCi/g	17-Jun-05	0.049	0.091
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lead 210	1.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lead 211 [g]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lead 212	1.64			pCi/g	17-Jun-05	0.28	0.17
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lead 214	0.86			pCi/g	17-Jun-05	0.21	0.15
F5F210233019	Soil	BRC-BKG-05AR-4-6	Polonium 210 [h]	1.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233019	Soil	BRC-BKG-05AR-4-6	Polonium 212 [i]	0.54 U			pCi/g	17-Jun-05	0.35	0.7
F5F210233019	Soil	BRC-BKG-05AR-4-6	Polonium 214 [j]	0.84			pCi/g	17-Jun-05	0.2	0.18
F5F210233019	Soil	BRC-BKG-05AR-4-6	Polonium 215 [k]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Polonium 216 [l]	1.64			pCi/g	17-Jun-05	0.28	0.17
HD3DX1C4	Soil	BRC-BKG-05AR-4-6	Polonium 218 [m]	1.12			pCi/g	17-Jun-05	0.17	0.266
F5F210233019	Soil	BRC-BKG-05AR-4-6	Potassium 40	25.1			pCi/g	17-Jun-05	3.7	1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233019	Soil	BRC-BKG-05AR-4-6	Protactinium 234	-0.005 U			pCi/g	17-Jun-05	0.16	0.29
F5F210233019	Soil	BRC-BKG-05AR-4-6	Radium 223 [n]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Radium 224 [o]	1.64			pCi/g	17-Jun-05	0.28	0.17
HD3DX1C4	Soil	BRC-BKG-05AR-4-6	Radium 226	1.12			pCi/g	17-Jun-05	0.17	0.266
HD3DX1C5	Soil	BRC-BKG-05AR-4-6	Radium 228	2.4			pCi/g	17-Jun-05	0.25	0.577
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thallium 207 [p]	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thallium 208	0.63			pCi/g	17-Jun-05	0.14	0.08
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 227	0.13 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 228	2.15			pCi/g	17-Jun-05	0.41	0.27
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 230	1.19			pCi/g	17-Jun-05	0.26	0.1
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 231	0.053 J	U	b	pCi/g	17-Jun-05	0.06	0.036
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 232	1.92			pCi/g	17-Jun-05	0.34	0.06
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thorium 234	1.76			pCi/g	17-Jun-05	0.53	0.99
F5F210233019	Soil	BRC-BKG-05AR-4-6	Uranium 233/234	1.02	U	b	pCi/g	17-Jun-05	0.23	0.03
F5F210233019	Soil	BRC-BKG-05AR-4-6	Uranium 235	0.053 J	J	k	pCi/g	17-Jun-05	0.06	0.036
F5F210233019	Soil	BRC-BKG-05AR-4-6	Uranium 238	1.02			pCi/g	17-Jun-05	0.23	0.03
F5F210233019	Soil	BRC-BKG-05AR-4-6	Moisture (%)	20.8			percent	17-Jun-05		
F5F210233019	Soil	BRC-BKG-05AR-4-6	Aluminum	5660 NE	J	j	mg/kg	17-Jun-05		2
F5F210233019	Soil	BRC-BKG-05AR-4-6	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298
F5F210233019	Soil	BRC-BKG-05AR-4-6	Arsenic	3.1			mg/kg	17-Jun-05		0.1278
F5F210233019	Soil	BRC-BKG-05AR-4-6	Barium	77.2 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233019	Soil	BRC-BKG-05AR-4-6	Beryllium	0.69			mg/kg	17-Jun-05		0.038
F5F210233019	Soil	BRC-BKG-05AR-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233019	Soil	BRC-BKG-05AR-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233019	Soil	BRC-BKG-05AR-4-6	Calcium	9440 N			mg/kg	17-Jun-05		1.028
F5F210233019	Soil	BRC-BKG-05AR-4-6	Chromium	6.5			mg/kg	17-Jun-05		0.1841
F5F210233019	Soil	BRC-BKG-05AR-4-6	Cobalt	8.1 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233019	Soil	BRC-BKG-05AR-4-6	Copper	15.3 N			mg/kg	17-Jun-05		0.2205
F5F210233019	Soil	BRC-BKG-05AR-4-6	Iron	11900 N			mg/kg	17-Jun-05		1.173
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lead	6.7 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233019	Soil	BRC-BKG-05AR-4-6	Lithium	8.7			mg/kg	17-Jun-05		0.2425
F5F210233019	Soil	BRC-BKG-05AR-4-6	Magnesium	7000 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233019	Soil	BRC-BKG-05AR-4-6	Manganese	308 N			mg/kg	17-Jun-05		0.0131

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233019	Soil	BRC-BKG-05AR-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233019	Soil	BRC-BKG-05AR-4-6	Molybdenum	0.35 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233019	Soil	BRC-BKG-05AR-4-6	Nickel	16.4 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233019	Soil	BRC-BKG-05AR-4-6	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233019	Soil	BRC-BKG-05AR-4-6	Palladium	0.19			mg/kg	17-Jun-05		0.0765
F5F210233019	Soil	BRC-BKG-05AR-4-6	Phosphorus	1820			mg/kg	17-Jun-05		1.913
F5F210233019	Soil	BRC-BKG-05AR-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233019	Soil	BRC-BKG-05AR-4-6	Potassium	872 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233019	Soil	BRC-BKG-05AR-4-6	Selenium	0.37 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233019	Soil	BRC-BKG-05AR-4-6	Silicon	901 N			mg/kg	17-Jun-05		0.5289
F5F210233019	Soil	BRC-BKG-05AR-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233019	Soil	BRC-BKG-05AR-4-6	Sodium	417			mg/kg	17-Jun-05		7.567
F5F210233019	Soil	BRC-BKG-05AR-4-6	Strontium	87.9			mg/kg	17-Jun-05		0.0735
F5F210233019	Soil	BRC-BKG-05AR-4-6	Thallium	1 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233019	Soil	BRC-BKG-05AR-4-6	Tin	0.37 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233019	Soil	BRC-BKG-05AR-4-6	Titanium	388 N			mg/kg	17-Jun-05		0.1175
F5F210233019	Soil	BRC-BKG-05AR-4-6	Tungsten	1 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233019	Soil	BRC-BKG-05AR-4-6	Uranium	0.8 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233019	Soil	BRC-BKG-05AR-4-6	Vanadium	28.6			mg/kg	17-Jun-05		0.5535
F5F210233019	Soil	BRC-BKG-05AR-4-6	Zinc	35.5			mg/kg	17-Jun-05		0.2207
F5F210233019	Soil	BRC-BKG-05AR-4-6	Zirconium	144			mg/kg	17-Jun-05		0.0874
F5F210233020	Soil	BRC-BKG-05AR-9-11	Chloride	16.3			mg/kg	17-Jun-05		0.25
F5F210233020	Soil	BRC-BKG-05AR-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233020	Soil	BRC-BKG-05AR-9-11	Nitrate	0.9	J	h	mg/kg	17-Jun-05		0.1
F5F210233020	Soil	BRC-BKG-05AR-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233020	Soil	BRC-BKG-05AR-9-11	Sulfate	10.8			mg/kg	17-Jun-05		0.612
F5F210233020	Soil	BRC-BKG-05AR-9-11	CEC	15.7			meq/100g	17-Jun-05		
F5F210233020	Soil	BRC-BKG-05AR-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233020	Soil	BRC-BKG-05AR-9-11	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233020	Soil	BRC-BKG-05AR-9-11	Actinium 227 [d]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Actinium 228	2.43			pCi/g	17-Jun-05	0.77	0.3
F5F210233020	Soil	BRC-BKG-05AR-9-11	Bismuth 210 [e]	0.09 U			pCi/g	17-Jun-05	1	1.9
F5F210233020	Soil	BRC-BKG-05AR-9-11	Bismuth 211 [f]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233020	Soil	BRC-BKG-05AR-9-11	Bismuth 212	1.46			pCi/g	17-Jun-05	0.63	0.75
F5F210233020	Soil	BRC-BKG-05AR-9-11	Bismuth 214	1.09			pCi/g	17-Jun-05	0.23	0.16
F5F210233020	Soil	BRC-BKG-05AR-9-11	Cobalt 57	0.002 U			pCi/g	17-Jun-05	0.029	0.049
F5F210233020	Soil	BRC-BKG-05AR-9-11	Cobalt 60	0.061 U			pCi/g	17-Jun-05	0.059	0.13
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lead 210	0.09 U			pCi/g	17-Jun-05	1	1.9
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lead 211 [g]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lead 212	1.82			pCi/g	17-Jun-05	0.28	0.17
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lead 214	0.96			pCi/g	17-Jun-05	0.22	0.15
F5F210233020	Soil	BRC-BKG-05AR-9-11	Polonium 210 [h]	0.09 U			pCi/g	17-Jun-05	1	1.9
F5F210233020	Soil	BRC-BKG-05AR-9-11	Polonium 212 [i]	0.93			pCi/g	17-Jun-05	0.41	0.48
F5F210233020	Soil	BRC-BKG-05AR-9-11	Polonium 214 [j]	1.09			pCi/g	17-Jun-05	0.23	0.16
F5F210233020	Soil	BRC-BKG-05AR-9-11	Polonium 215 [k]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Polonium 216 [l]	1.82			pCi/g	17-Jun-05	0.28	0.17
HD3EE1C5	Soil	BRC-BKG-05AR-9-11	Polonium 218 [m]	1.28			pCi/g	17-Jun-05	0.17	0.152
F5F210233020	Soil	BRC-BKG-05AR-9-11	Potassium 40	25.1			pCi/g	17-Jun-05	3.6	0.8
F5F210233020	Soil	BRC-BKG-05AR-9-11	Protactinium 234	-0.04 U			pCi/g	17-Jun-05	0.17	0.25
F5F210233020	Soil	BRC-BKG-05AR-9-11	Radium 223 [n]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Radium 224 [o]	1.82			pCi/g	17-Jun-05	0.28	0.17
HD3EE1C5	Soil	BRC-BKG-05AR-9-11	Radium 226	1.28			pCi/g	17-Jun-05	0.17	0.152
HD3EE1C6	Soil	BRC-BKG-05AR-9-11	Radium 228	2.14			pCi/g	17-Jun-05	0.25	0.631
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thallium 207 [p]	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thallium 208	0.67			pCi/g	17-Jun-05	0.14	0.08
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 227	-0.03 U			pCi/g	17-Jun-05	0.43	0.76
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 228	2.11			pCi/g	17-Jun-05	0.38	0.16
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 230	0.97 J	J	k	pCi/g	17-Jun-05	0.23	0.08
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 231	0.037 J	U	b	pCi/g	17-Jun-05	0.049	0.033
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 232	2.06			pCi/g	17-Jun-05	0.36	0.05
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thorium 234	0.75 U			pCi/g	17-Jun-05	0.36	0.92
F5F210233020	Soil	BRC-BKG-05AR-9-11	Uranium 233/234	0.96 J	U	b	pCi/g	17-Jun-05	0.21	0.03
F5F210233020	Soil	BRC-BKG-05AR-9-11	Uranium 235	0.037 J	J	k	pCi/g	17-Jun-05	0.049	0.033
F5F210233020	Soil	BRC-BKG-05AR-9-11	Uranium 238	0.94 J	J	k	pCi/g	17-Jun-05	0.21	0.03
F5F210233020	Soil	BRC-BKG-05AR-9-11	Moisture (%)	5.3			percent	17-Jun-05		
F5F210233020	Soil	BRC-BKG-05AR-9-11	Aluminum	6530 NE	J	j	mg/kg	17-Jun-05		2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233020	Soil	BRC-BKG-05AR-9-11	Antimony	0.12 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233020	Soil	BRC-BKG-05AR-9-11	Arsenic	3.7			mg/kg	17-Jun-05		0.1278
F5F210233020	Soil	BRC-BKG-05AR-9-11	Barium	118 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233020	Soil	BRC-BKG-05AR-9-11	Beryllium	0.89			mg/kg	17-Jun-05		0.038
F5F210233020	Soil	BRC-BKG-05AR-9-11	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233020	Soil	BRC-BKG-05AR-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233020	Soil	BRC-BKG-05AR-9-11	Calcium	18800 N			mg/kg	17-Jun-05		1.028
F5F210233020	Soil	BRC-BKG-05AR-9-11	Chromium	10.8			mg/kg	17-Jun-05		0.1841
F5F210233020	Soil	BRC-BKG-05AR-9-11	Cobalt	8.9 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233020	Soil	BRC-BKG-05AR-9-11	Copper	16.7 N			mg/kg	17-Jun-05		0.2205
F5F210233020	Soil	BRC-BKG-05AR-9-11	Iron	14700 N			mg/kg	17-Jun-05		1.173
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lead	7.8 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233020	Soil	BRC-BKG-05AR-9-11	Lithium	11.7			mg/kg	17-Jun-05		0.2425
F5F210233020	Soil	BRC-BKG-05AR-9-11	Magnesium	8910 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233020	Soil	BRC-BKG-05AR-9-11	Manganese	400 N			mg/kg	17-Jun-05		0.0131
F5F210233020	Soil	BRC-BKG-05AR-9-11	Mercury	0.011 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233020	Soil	BRC-BKG-05AR-9-11	Molybdenum	0.42 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233020	Soil	BRC-BKG-05AR-9-11	Nickel	17.6 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233020	Soil	BRC-BKG-05AR-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233020	Soil	BRC-BKG-05AR-9-11	Palladium	0.25			mg/kg	17-Jun-05		0.0765
F5F210233020	Soil	BRC-BKG-05AR-9-11	Phosphorus	1690			mg/kg	17-Jun-05		1.913
F5F210233020	Soil	BRC-BKG-05AR-9-11	Platinum	0.064 B	J	g	mg/kg	17-Jun-05		0.0435
F5F210233020	Soil	BRC-BKG-05AR-9-11	Potassium	918 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233020	Soil	BRC-BKG-05AR-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233020	Soil	BRC-BKG-05AR-9-11	Silicon	1120 N			mg/kg	17-Jun-05		0.5289
F5F210233020	Soil	BRC-BKG-05AR-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233020	Soil	BRC-BKG-05AR-9-11	Sodium	453			mg/kg	17-Jun-05		7.567
F5F210233020	Soil	BRC-BKG-05AR-9-11	Strontium	124			mg/kg	17-Jun-05		0.0735
F5F210233020	Soil	BRC-BKG-05AR-9-11	Thallium	1.6			mg/kg	17-Jun-05		0.5428
F5F210233020	Soil	BRC-BKG-05AR-9-11	Tin	0.46 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233020	Soil	BRC-BKG-05AR-9-11	Titanium	436 N			mg/kg	17-Jun-05		0.1175
F5F210233020	Soil	BRC-BKG-05AR-9-11	Tungsten	0.84 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233020	Soil	BRC-BKG-05AR-9-11	Uranium	0.95 B	J	g	mg/kg	17-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233020	Soil	BRC-BKG-05AR-9-11	Vanadium	35.9			mg/kg	17-Jun-05		0.5535
F5F210233020	Soil	BRC-BKG-05AR-9-11	Zinc	51.7			mg/kg	17-Jun-05		0.2207
F5F210233020	Soil	BRC-BKG-05AR-9-11	Zirconium	151			mg/kg	17-Jun-05		0.0874
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Chloride	0.51 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Nitrate	1.3	J	h	mg/kg	14-Jun-05		0.1
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Sulfate	2.8 B	U	b	mg/kg	14-Jun-05		0.612
F5F160308015	Soil	BRC-BKG-05B-0-0.5	CEC	15.5 J	J	g	meq/100g	14-Jun-05		
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308015	Soil	BRC-BKG-05B-0-0.5	pH (solid)	9	J	h	none	14-Jun-05		
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Actinium 227 [d]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Actinium 228	1.81			pCi/g	14-Jun-05	0.68	0.37
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	14-Jun-05	1.1	2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Bismuth 211 [f]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Bismuth 212	1.07			pCi/g	14-Jun-05	0.53	0.79
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Bismuth 214	0.92			pCi/g	14-Jun-05	0.22	0.39
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Cobalt 57	0.007 U			pCi/g	14-Jun-05	0.031	0.053
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Cobalt 60	0.011 U			pCi/g	14-Jun-05	0.05	0.1
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lead 210	0.4 U			pCi/g	14-Jun-05	1.1	2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lead 211 [g]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lead 212	1.98			pCi/g	14-Jun-05	0.29	0.13
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lead 214	0.87			pCi/g	14-Jun-05	0.25	0.15
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Polonium 210 [h]	0.4 U			pCi/g	14-Jun-05	1.1	2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Polonium 212 [i]	0.69			pCi/g	14-Jun-05	0.34	0.51
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Polonium 214 [j]	0.92			pCi/g	14-Jun-05	0.22	0.17
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Polonium 215 [k]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Polonium 216 [l]	1.98			pCi/g	14-Jun-05	0.29	0.13
HDRGQ1C4	Soil	BRC-BKG-05B-0-0.5	Polonium 218 [m]	0.879 J	J	k	pCi/g	14-Jun-05	0.12	0.136
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Potassium 40	27.5			pCi/g	14-Jun-05	4	1
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Protactinium 234	-0.21 U			pCi/g	14-Jun-05	0.16	0.25
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Radium 223 [n]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Radium 224 [o]	1.98			pCi/g	14-Jun-05	0.29	0.13

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDRGQ1C4	Soil	BRC-BKG-05B-0-0.5	Radium 226	0.879 J	J	k	pCi/g	14-Jun-05	0.12	0.136
HDRGQ2C5	Soil	BRC-BKG-05B-0-0.5	Radium 228	1.86 J	U	k, b	pCi/g	14-Jun-05	0.21	0.443
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thallium 207 [p]	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thallium 208	0.72			pCi/g	14-Jun-05	0.16	0.09
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 227	0.008 U			pCi/g	14-Jun-05	0.45	0.8
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 228	1.65			pCi/g	14-Jun-05	0.34	0.17
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 230	1.15			pCi/g	14-Jun-05	0.26	0.08
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 231	0.124 J	U	b	pCi/g	14-Jun-05	0.094	0.042
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 232	1.57			pCi/g	14-Jun-05	0.31	0.05
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thorium 234	1.86			pCi/g	14-Jun-05	0.69	1.2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Uranium 233/234	0.88 J	U	b	pCi/g	14-Jun-05	0.23	0.08
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Uranium 235	0.124 J	J	k	pCi/g	14-Jun-05	0.094	0.042
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Uranium 238	1.08			pCi/g	14-Jun-05	0.26	0.07
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Moisture (%)	1.9			percent	14-Jun-05		
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Aluminum	7130 NE	J	j	mg/kg	14-Jun-05		2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Arsenic	2.6			mg/kg	14-Jun-05		0.1278
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Barium	145 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Beryllium	0.33 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Calcium	14400 N			mg/kg	14-Jun-05		1.028
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Chromium	4.8			mg/kg	14-Jun-05		0.1841
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Cobalt	8.7 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Copper	22.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Iron	10700 N			mg/kg	14-Jun-05		1.173
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lead	8.1			mg/kg	14-Jun-05		0.0506
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Lithium	8.8			mg/kg	14-Jun-05		0.2425
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Magnesium	8470 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Manganese	407 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Mercury	0.025 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Molybdenum	0.36 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Nickel	17.4 E	J	j	mg/kg	14-Jun-05		0.1295

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Niobium	2.3 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Palladium	0.28			mg/kg	14-Jun-05		0.0765
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Phosphorus	1590 N			mg/kg	14-Jun-05		1.913
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Potassium	1530 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Silicon	342 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Sodium	155			mg/kg	14-Jun-05		7.567
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Strontium	131 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Thallium	1.1			mg/kg	14-Jun-05		0.5428
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Tin	0.55 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Titanium	659 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Tungsten	1.7 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Uranium	0.89 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Vanadium	33.5 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Zinc	33.7			mg/kg	14-Jun-05		0.2207
F5F160308015	Soil	BRC-BKG-05B-0-0.5	Zirconium	154 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Chloride	0.79 B J	U	b	mg/kg	17-Jun-05		0.25
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Nitrate	0.51	J	h	mg/kg	17-Jun-05		0.1
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Sulfate	0.86 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	CEC	17.3			meq/100g	17-Jun-05		
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	pH (solid)	8.6	J	h	none	17-Jun-05		
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Actinium 227 [d]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Actinium 228	2.27			pCi/g	17-Jun-05	0.73	0.34
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	17-Jun-05	1.1	2.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Bismuth 211 [f]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Bismuth 212	1.07 U			pCi/g	17-Jun-05	0.55	1.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Bismuth 214	0.81			pCi/g	17-Jun-05	0.25	0.42
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Cobalt 57	0.013 U			pCi/g	17-Jun-05	0.03	0.054

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Cobalt 60	0.025 U			pCi/g	17-Jun-05	0.059	0.12
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lead 210	0.4 U			pCi/g	17-Jun-05	1.1	2.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lead 211 [g]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lead 212	1.61			pCi/g	17-Jun-05	0.28	0.17
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lead 214	0.88			pCi/g	17-Jun-05	0.22	0.16
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Polonium 210 [h]	0.4 U			pCi/g	17-Jun-05	1.1	2.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Polonium 212 [i]	0.68 U			pCi/g	17-Jun-05	0.36	0.75
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Polonium 214 [j]	0.81			pCi/g	17-Jun-05	0.25	0.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Polonium 215 [k]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Polonium 216 [l]	1.61			pCi/g	17-Jun-05	0.28	0.17
HD3E41C4	Soil	BRC-BKG-05BR-0-0.5	Polonium 218 [m]	1.12			pCi/g	17-Jun-05	0.16	0.247
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Potassium 40	23.5			pCi/g	17-Jun-05	3.6	1.4
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Protactinium 234	-0.27 U			pCi/g	17-Jun-05	0.17	0.26
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Radium 223 [n]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Radium 224 [o]	1.61			pCi/g	17-Jun-05	0.28	0.17
HD3E41C4	Soil	BRC-BKG-05BR-0-0.5	Radium 226	1.12			pCi/g	17-Jun-05	0.16	0.247
HD3E41C5	Soil	BRC-BKG-05BR-0-0.5	Radium 228	2.06			pCi/g	17-Jun-05	0.22	0.416
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thallium 207 [p]	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thallium 208	0.56			pCi/g	17-Jun-05	0.15	0.1
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 227	-0.05 U			pCi/g	17-Jun-05	0.41	0.72
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 228	1.55			pCi/g	17-Jun-05	0.27	0.05
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 230	0.73 J	J	k	pCi/g	17-Jun-05	0.18	0.03
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 231	0.073 U			pCi/g	17-Jun-05	0.081	0.098
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 232	1.52			pCi/g	17-Jun-05	0.27	0.03
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thorium 234	1.1 U			pCi/g	17-Jun-05	0.68	1.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Uranium 233/234	0.83 J	U	b	pCi/g	17-Jun-05	0.22	0.11
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Uranium 235	0.073 U			pCi/g	17-Jun-05	0.081	0.098
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Uranium 238	0.94 J	J	k	pCi/g	17-Jun-05	0.24	0.09
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Moisture (%)	1.4			percent	17-Jun-05		
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Aluminum	7820 NE	J	j	mg/kg	17-Jun-05		2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Antimony	0.2 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Arsenic	3.3			mg/kg	17-Jun-05		0.1278
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Barium	141 NE	J+	j, e	mg/kg	17-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Beryllium	0.89			mg/kg	17-Jun-05		0.038
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Calcium	16600 N			mg/kg	17-Jun-05		1.028
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Chromium	11.9			mg/kg	17-Jun-05		0.1841
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Cobalt	9.5 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Copper	18.6 N			mg/kg	17-Jun-05		0.2205
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Iron	15700 N			mg/kg	17-Jun-05		1.173
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lead	7.9 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Lithium	11.1			mg/kg	17-Jun-05		0.2425
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Magnesium	8970 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Manganese	404 N			mg/kg	17-Jun-05		0.0131
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Mercury	0.016 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Molybdenum	0.42 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Nickel	18.8 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Niobium	1.5 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Palladium	0.24			mg/kg	17-Jun-05		0.0765
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Phosphorus	1590			mg/kg	17-Jun-05		1.913
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Potassium	1870 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Selenium	0.54			mg/kg	17-Jun-05		0.1579
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Silicon	844 N			mg/kg	17-Jun-05		0.5289
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Sodium	146			mg/kg	17-Jun-05		7.567
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Strontium	119			mg/kg	17-Jun-05		0.0735
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Thallium	1.5			mg/kg	17-Jun-05		0.5428
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Tin	0.52 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Titanium	624 N			mg/kg	17-Jun-05		0.1175
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Tungsten	0.73 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Uranium	1.1			mg/kg	17-Jun-05		0.038
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Vanadium	41.2			mg/kg	17-Jun-05		0.5535
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Zinc	37.7			mg/kg	17-Jun-05		0.2207
F5F210233021	Soil	BRC-BKG-05BR-0-0.5	Zirconium	133			mg/kg	17-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233022	Soil	BRC-BKG-05BR-4-6	Chloride	1.6 B J	U	b	mg/kg	17-Jun-05		0.25
F5F210233022	Soil	BRC-BKG-05BR-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233022	Soil	BRC-BKG-05BR-4-6	Nitrate	0.65	J	h	mg/kg	17-Jun-05		0.1
F5F210233022	Soil	BRC-BKG-05BR-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233022	Soil	BRC-BKG-05BR-4-6	Sulfate	3.1 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233022	Soil	BRC-BKG-05BR-4-6	CEC	15.9			meq/100g	17-Jun-05		
F5F210233022	Soil	BRC-BKG-05BR-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233022	Soil	BRC-BKG-05BR-4-6	pH (solid)	8.9	J	h	none	17-Jun-05		
F5F210233022	Soil	BRC-BKG-05BR-4-6	Actinium 227 [d]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Actinium 228	2.17			pCi/g	17-Jun-05	0.74	0.35
F5F210233022	Soil	BRC-BKG-05BR-4-6	Bismuth 210 [e]	0.36 U			pCi/g	17-Jun-05	0.98	1.8
F5F210233022	Soil	BRC-BKG-05BR-4-6	Bismuth 211 [f]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Bismuth 212	1.37			pCi/g	17-Jun-05	0.56	1.1
F5F210233022	Soil	BRC-BKG-05BR-4-6	Bismuth 214	0.88			pCi/g	17-Jun-05	0.22	0.17
F5F210233022	Soil	BRC-BKG-05BR-4-6	Cobalt 57	-0.045 U			pCi/g	17-Jun-05	0.031	0.047
F5F210233022	Soil	BRC-BKG-05BR-4-6	Cobalt 60	0.071 U			pCi/g	17-Jun-05	0.058	0.13
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lead 210	0.36 U			pCi/g	17-Jun-05	0.98	1.8
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lead 211 [g]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lead 212	1.77			pCi/g	17-Jun-05	0.26	0.11
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lead 214	0.88			pCi/g	17-Jun-05	0.22	0.15
F5F210233022	Soil	BRC-BKG-05BR-4-6	Polonium 210 [h]	0.36 U			pCi/g	17-Jun-05	0.98	1.8
F5F210233022	Soil	BRC-BKG-05BR-4-6	Polonium 212 [i]	0.88			pCi/g	17-Jun-05	0.36	0.72
F5F210233022	Soil	BRC-BKG-05BR-4-6	Polonium 214 [j]	0.88			pCi/g	17-Jun-05	0.21	0.17
F5F210233022	Soil	BRC-BKG-05BR-4-6	Polonium 215 [k]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Polonium 216 [l]	1.77			pCi/g	17-Jun-05	0.26	0.11
HD3GV1C5	Soil	BRC-BKG-05BR-4-6	Polonium 218 [m]	1.22			pCi/g	17-Jun-05	0.18	0.226
F5F210233022	Soil	BRC-BKG-05BR-4-6	Potassium 40	23.4			pCi/g	17-Jun-05	3.4	0.9
F5F210233022	Soil	BRC-BKG-05BR-4-6	Protactinium 234	-0.02 U			pCi/g	17-Jun-05	0.16	0.24
F5F210233022	Soil	BRC-BKG-05BR-4-6	Radium 223 [n]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Radium 224 [o]	1.77			pCi/g	17-Jun-05	0.26	0.11
HD3GV1C5	Soil	BRC-BKG-05BR-4-6	Radium 226	1.22			pCi/g	17-Jun-05	0.18	0.226
HD3GV1C6	Soil	BRC-BKG-05BR-4-6	Radium 228	2.31			pCi/g	17-Jun-05	0.25	0.508
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thallium 207 [p]	-0.13 U			pCi/g	17-Jun-05	0.41	0.71

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thallium 208	0.6			pCi/g	17-Jun-05	0.13	0.08
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 227	-0.13 U			pCi/g	17-Jun-05	0.41	0.71
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 228	2.06			pCi/g	17-Jun-05	0.35	0.07
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 230	1.42			pCi/g	17-Jun-05	0.28	0.03
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 231	0.062 U			pCi/g	17-Jun-05	0.067	0.069
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 232	1.91			pCi/g	17-Jun-05	0.33	0.05
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thorium 234	1.58			pCi/g	17-Jun-05	0.46	0.81
F5F210233022	Soil	BRC-BKG-05BR-4-6	Uranium 233/234	0.95 J	U	b	pCi/g	17-Jun-05	0.24	0.09
F5F210233022	Soil	BRC-BKG-05BR-4-6	Uranium 235	0.062 U			pCi/g	17-Jun-05	0.067	0.069
F5F210233022	Soil	BRC-BKG-05BR-4-6	Uranium 238	0.97 J	J	k	pCi/g	17-Jun-05	0.24	0.04
F5F210233022	Soil	BRC-BKG-05BR-4-6	Moisture (%)	4.8			percent	17-Jun-05		
F5F210233022	Soil	BRC-BKG-05BR-4-6	Aluminum	5740 N			mg/kg	17-Jun-05		2
F5F210233022	Soil	BRC-BKG-05BR-4-6	Antimony	0.23 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233022	Soil	BRC-BKG-05BR-4-6	Arsenic	3.4			mg/kg	17-Jun-05		0.1278
F5F210233022	Soil	BRC-BKG-05BR-4-6	Barium	96.7 N			mg/kg	17-Jun-05		0.152
F5F210233022	Soil	BRC-BKG-05BR-4-6	Beryllium	0.76			mg/kg	17-Jun-05		0.038
F5F210233022	Soil	BRC-BKG-05BR-4-6	Boron	3.5 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233022	Soil	BRC-BKG-05BR-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233022	Soil	BRC-BKG-05BR-4-6	Calcium	11400 N			mg/kg	17-Jun-05		1.028
F5F210233022	Soil	BRC-BKG-05BR-4-6	Chromium	6.9			mg/kg	17-Jun-05		0.1841
F5F210233022	Soil	BRC-BKG-05BR-4-6	Cobalt	8.3			mg/kg	17-Jun-05		0.064
F5F210233022	Soil	BRC-BKG-05BR-4-6	Copper	15.5			mg/kg	17-Jun-05		0.2205
F5F210233022	Soil	BRC-BKG-05BR-4-6	Iron	12300 N			mg/kg	17-Jun-05		1.173
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lead	6.9			mg/kg	17-Jun-05		0.0506
F5F210233022	Soil	BRC-BKG-05BR-4-6	Lithium	8.5			mg/kg	17-Jun-05		0.2425
F5F210233022	Soil	BRC-BKG-05BR-4-6	Magnesium	7090			mg/kg	17-Jun-05		1.176
F5F210233022	Soil	BRC-BKG-05BR-4-6	Manganese	397 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233022	Soil	BRC-BKG-05BR-4-6	Mercury	0.0084 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233022	Soil	BRC-BKG-05BR-4-6	Molybdenum	0.37 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233022	Soil	BRC-BKG-05BR-4-6	Nickel	16.4			mg/kg	17-Jun-05		0.1295
F5F210233022	Soil	BRC-BKG-05BR-4-6	Niobium	2.5 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233022	Soil	BRC-BKG-05BR-4-6	Palladium	0.16			mg/kg	17-Jun-05		0.0765
F5F210233022	Soil	BRC-BKG-05BR-4-6	Phosphorus	1730			mg/kg	17-Jun-05		1.913

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233022	Soil	BRC-BKG-05BR-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233022	Soil	BRC-BKG-05BR-4-6	Potassium	989			mg/kg	17-Jun-05		2.079
F5F210233022	Soil	BRC-BKG-05BR-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233022	Soil	BRC-BKG-05BR-4-6	Silicon	774 N			mg/kg	17-Jun-05		0.5289
F5F210233022	Soil	BRC-BKG-05BR-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233022	Soil	BRC-BKG-05BR-4-6	Sodium	307			mg/kg	17-Jun-05		7.567
F5F210233022	Soil	BRC-BKG-05BR-4-6	Strontium	75.5			mg/kg	17-Jun-05		0.0735
F5F210233022	Soil	BRC-BKG-05BR-4-6	Thallium	0.4 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233022	Soil	BRC-BKG-05BR-4-6	Tin	0.48 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233022	Soil	BRC-BKG-05BR-4-6	Titanium	432 N			mg/kg	17-Jun-05		0.1175
F5F210233022	Soil	BRC-BKG-05BR-4-6	Tungsten	0.64 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233022	Soil	BRC-BKG-05BR-4-6	Uranium	1 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233022	Soil	BRC-BKG-05BR-4-6	Vanadium	29.2 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233022	Soil	BRC-BKG-05BR-4-6	Zinc	33.1			mg/kg	17-Jun-05		0.2207
F5F210233022	Soil	BRC-BKG-05BR-4-6	Zirconium	135 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233023	Soil	BRC-BKG-05BR-9-11	Chloride	21.7 J			mg/kg	17-Jun-05		0.25
F5F210233023	Soil	BRC-BKG-05BR-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233023	Soil	BRC-BKG-05BR-9-11	Nitrate	1.5	J	h	mg/kg	17-Jun-05		0.1
F5F210233023	Soil	BRC-BKG-05BR-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233023	Soil	BRC-BKG-05BR-9-11	Sulfate	8.6			mg/kg	17-Jun-05		0.612
F5F210233023	Soil	BRC-BKG-05BR-9-11	CEC	14.2			meq/100g	17-Jun-05		
F5F210233023	Soil	BRC-BKG-05BR-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233023	Soil	BRC-BKG-05BR-9-11	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233023	Soil	BRC-BKG-05BR-9-11	Actinium 227 [d]	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Actinium 228	2.33			pCi/g	17-Jun-05	0.79	0.4
F5F210233023	Soil	BRC-BKG-05BR-9-11	Bismuth 210 [e]	0.3 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233023	Soil	BRC-BKG-05BR-9-11	Bismuth 211 [f]	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Bismuth 212	1.11			pCi/g	17-Jun-05	0.73	0.73
F5F210233023	Soil	BRC-BKG-05BR-9-11	Bismuth 214	1.07			pCi/g	17-Jun-05	0.27	0.46
F5F210233023	Soil	BRC-BKG-05BR-9-11	Cobalt 57	-0.001 U			pCi/g	17-Jun-05	0.033	0.057
F5F210233023	Soil	BRC-BKG-05BR-9-11	Cobalt 60	0.011 U			pCi/g	17-Jun-05	0.06	0.12
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lead 210	0.3 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lead 211 [g]	0.02 U			pCi/g	17-Jun-05	0.46	0.82

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lead 212	2.11			pCi/g	17-Jun-05	0.31	0.14
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lead 214	0.97			pCi/g	17-Jun-05	0.22	0.17
F5F210233023	Soil	BRC-BKG-05BR-9-11	Polonium 210 [h]	0.3 U			pCi/g	17-Jun-05	1.4	2.5
F5F210233023	Soil	BRC-BKG-05BR-9-11	Polonium 212 [i]	0.71			pCi/g	17-Jun-05	0.47	0.47
F5F210233023	Soil	BRC-BKG-05BR-9-11	Polonium 214 [j]	1.07			pCi/g	17-Jun-05	0.27	0.22
F5F210233023	Soil	BRC-BKG-05BR-9-11	Polonium 215 [k]	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Polonium 216 [l]	2.11			pCi/g	17-Jun-05	0.31	0.14
HD3JL1C5	Soil	BRC-BKG-05BR-9-11	Polonium 218 [m]	0.978 J	U	k, b	pCi/g	17-Jun-05	0.15	0.176
F5F210233023	Soil	BRC-BKG-05BR-9-11	Potassium 40	27.2			pCi/g	17-Jun-05	4.2	1
F5F210233023	Soil	BRC-BKG-05BR-9-11	Protactinium 234	-0.25 U			pCi/g	17-Jun-05	0.18	0.28
F5F210233023	Soil	BRC-BKG-05BR-9-11	Radium 223 [n]	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Radium 224 [o]	2.11			pCi/g	17-Jun-05	0.31	0.14
HD3JL1C5	Soil	BRC-BKG-05BR-9-11	Radium 226	0.978 J	U	k, b	pCi/g	17-Jun-05	0.15	0.176
HD3JL1C6	Soil	BRC-BKG-05BR-9-11	Radium 228	2.51			pCi/g	17-Jun-05	0.24	0.412
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thallium 207 [p]	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thallium 208	0.68			pCi/g	17-Jun-05	0.17	0.1
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 227	0.02 U			pCi/g	17-Jun-05	0.46	0.82
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 228	1.91			pCi/g	17-Jun-05	0.33	0.09
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 230	0.98 J	J	k	pCi/g	17-Jun-05	0.22	0.06
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 231	0.102 J	U	b	pCi/g	17-Jun-05	0.095	0.01
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 232	1.77			pCi/g	17-Jun-05	0.31	0.03
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thorium 234	1.51			pCi/g	17-Jun-05	0.8	1.4
F5F210233023	Soil	BRC-BKG-05BR-9-11	Uranium 233/234	1.23	J+	b	pCi/g	17-Jun-05	0.3	0.14
F5F210233023	Soil	BRC-BKG-05BR-9-11	Uranium 235	0.102 U			pCi/g	17-Jun-05	0.095	0.1
F5F210233023	Soil	BRC-BKG-05BR-9-11	Uranium 238	1.36			pCi/g	17-Jun-05	0.31	0.1
F5F210233023	Soil	BRC-BKG-05BR-9-11	Moisture (%)	3.4			percent	17-Jun-05		
F5F210233023	Soil	BRC-BKG-05BR-9-11	Aluminum	7880 N			mg/kg	17-Jun-05		2
F5F210233023	Soil	BRC-BKG-05BR-9-11	Antimony	0.21 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233023	Soil	BRC-BKG-05BR-9-11	Arsenic	3.9			mg/kg	17-Jun-05		0.1278
F5F210233023	Soil	BRC-BKG-05BR-9-11	Barium	122 N			mg/kg	17-Jun-05		0.152
F5F210233023	Soil	BRC-BKG-05BR-9-11	Beryllium	0.79			mg/kg	17-Jun-05		0.038
F5F210233023	Soil	BRC-BKG-05BR-9-11	Boron	3.4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233023	Soil	BRC-BKG-05BR-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233023	Soil	BRC-BKG-05BR-9-11	Calcium	18500 N			mg/kg	17-Jun-05		1.028
F5F210233023	Soil	BRC-BKG-05BR-9-11	Chromium	9.9			mg/kg	17-Jun-05		0.1841
F5F210233023	Soil	BRC-BKG-05BR-9-11	Cobalt	10			mg/kg	17-Jun-05		0.064
F5F210233023	Soil	BRC-BKG-05BR-9-11	Copper	19			mg/kg	17-Jun-05		0.2205
F5F210233023	Soil	BRC-BKG-05BR-9-11	Iron	12300 N			mg/kg	17-Jun-05		1.173
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lead	6			mg/kg	17-Jun-05		0.0506
F5F210233023	Soil	BRC-BKG-05BR-9-11	Lithium	12.8			mg/kg	17-Jun-05		0.2425
F5F210233023	Soil	BRC-BKG-05BR-9-11	Magnesium	9700			mg/kg	17-Jun-05		1.176
F5F210233023	Soil	BRC-BKG-05BR-9-11	Manganese	433 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233023	Soil	BRC-BKG-05BR-9-11	Mercury	0.01 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233023	Soil	BRC-BKG-05BR-9-11	Molybdenum	0.47 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233023	Soil	BRC-BKG-05BR-9-11	Nickel	22.1			mg/kg	17-Jun-05		0.1295
F5F210233023	Soil	BRC-BKG-05BR-9-11	Niobium	1.7 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233023	Soil	BRC-BKG-05BR-9-11	Palladium	0.26			mg/kg	17-Jun-05		0.0765
F5F210233023	Soil	BRC-BKG-05BR-9-11	Phosphorus	1520			mg/kg	17-Jun-05		1.913
F5F210233023	Soil	BRC-BKG-05BR-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233023	Soil	BRC-BKG-05BR-9-11	Potassium	1190			mg/kg	17-Jun-05		2.079
F5F210233023	Soil	BRC-BKG-05BR-9-11	Selenium	0.29 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233023	Soil	BRC-BKG-05BR-9-11	Silicon	1100 N			mg/kg	17-Jun-05		0.5289
F5F210233023	Soil	BRC-BKG-05BR-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233023	Soil	BRC-BKG-05BR-9-11	Sodium	360			mg/kg	17-Jun-05		7.567
F5F210233023	Soil	BRC-BKG-05BR-9-11	Strontium	117			mg/kg	17-Jun-05		0.0735
F5F210233023	Soil	BRC-BKG-05BR-9-11	Thallium	0.58 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233023	Soil	BRC-BKG-05BR-9-11	Tin	0.52 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233023	Soil	BRC-BKG-05BR-9-11	Titanium	509 N			mg/kg	17-Jun-05		0.1175
F5F210233023	Soil	BRC-BKG-05BR-9-11	Tungsten	0.51 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233023	Soil	BRC-BKG-05BR-9-11	Uranium	0.89 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233023	Soil	BRC-BKG-05BR-9-11	Vanadium	36.9 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233023	Soil	BRC-BKG-05BR-9-11	Zinc	34.8			mg/kg	17-Jun-05		0.2207
F5F210233023	Soil	BRC-BKG-05BR-9-11	Zirconium	129 E	J	j	mg/kg	17-Jun-05		0.0874
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Chloride	1.8 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Nitrate	2.6	J	h	mg/kg	14-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Sulfate	4.4 B	U	b	mg/kg	14-Jun-05		0.612
F5F160308016	Soil	BRC-BKG-05C-0-0.5	CEC	19.2 J	J	g	meq/100g	14-Jun-05		
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308016	Soil	BRC-BKG-05C-0-0.5	pH (solid)	8.9	J	h	none	14-Jun-05		
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Actinium 227 [d]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Actinium 228	2.01			pCi/g	14-Jun-05	0.75	0.47
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Bismuth 210 [e]	0.7 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Bismuth 211 [f]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Bismuth 212	1.45			pCi/g	14-Jun-05	0.63	1.3
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Bismuth 214	0.73			pCi/g	14-Jun-05	0.22	0.42
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Cobalt 57	0.009 U			pCi/g	14-Jun-05	0.033	0.058
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Cobalt 60	-0.052 U			pCi/g	14-Jun-05	0.069	0.11
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lead 210	0.7 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lead 211 [g]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lead 212	1.8			pCi/g	14-Jun-05	0.28	0.12
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lead 214	0.79			pCi/g	14-Jun-05	0.24	0.19
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Polonium 210 [h]	0.7 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Polonium 212 [i]	0.93			pCi/g	14-Jun-05	0.4	0.85
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Polonium 214 [j]	0.73			pCi/g	14-Jun-05	0.21	0.2
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Polonium 215 [k]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Polonium 216 [l]	1.8			pCi/g	14-Jun-05	0.28	0.12
HDRGR1C4	Soil	BRC-BKG-05C-0-0.5	Polonium 218 [m]	1.05			pCi/g	14-Jun-05	0.14	0.107
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Potassium 40	25			pCi/g	14-Jun-05	3.9	1
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Protactinium 234	-0.07 U			pCi/g	14-Jun-05	0.17	0.29
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Radium 223 [n]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Radium 224 [o]	1.8			pCi/g	14-Jun-05	0.28	0.12
HDRGR1C4	Soil	BRC-BKG-05C-0-0.5	Radium 226	1.05			pCi/g	14-Jun-05	0.14	0.107
HDRGR1C5	Soil	BRC-BKG-05C-0-0.5	Radium 228	1.92 J	J	k	pCi/g	14-Jun-05	0.27	0.846
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thallium 207 [p]	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thallium 208	0.6			pCi/g	14-Jun-05	0.15	0.1
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 227	0.06 U			pCi/g	14-Jun-05	0.44	0.79
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 228	1.99			pCi/g	14-Jun-05	0.43	0.18

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 230	0.93 J	J	k	pCi/g	14-Jun-05	0.26	0.08
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 231	0.054 J	U	b	pCi/g	14-Jun-05	0.072	0.048
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 232	1.84			pCi/g	14-Jun-05	0.39	0.07
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thorium 234	1.21 U			pCi/g	14-Jun-05	0.73	1.4
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Uranium 233/234	1.16	U	b	pCi/g	14-Jun-05	0.29	0.07
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Uranium 235	0.054 J	J	k	pCi/g	14-Jun-05	0.072	0.048
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Uranium 238	1.04			pCi/g	14-Jun-05	0.27	0.07
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Moisture (%)	1.4			percent	14-Jun-05		
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Aluminum	8730 NE	J	j	mg/kg	14-Jun-05		2
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Arsenic	2.6			mg/kg	14-Jun-05		0.1278
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Barium	154 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Beryllium	0.37 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Boron	U			mg/kg	14-Jun-05		3.2
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Calcium	15000 N			mg/kg	14-Jun-05		1.028
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Chromium	4.7			mg/kg	14-Jun-05		0.1841
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Cobalt	9.3 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Copper	21 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Iron	10700 N			mg/kg	14-Jun-05		1.173
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lead	8			mg/kg	14-Jun-05		0.0506
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Lithium	9.2			mg/kg	14-Jun-05		0.2425
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Magnesium	9600 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Manganese	402 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Mercury	0.021 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Molybdenum	0.36 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Nickel	19.8 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Niobium	1.7 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Palladium	0.36			mg/kg	14-Jun-05		0.0765
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Phosphorus	1630 N			mg/kg	14-Jun-05		1.913
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Potassium	1830 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Silicon	375 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Sodium	169			mg/kg	14-Jun-05		7.567
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Strontium	166 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Thallium	1.1			mg/kg	14-Jun-05		0.5428
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Tin	0.61 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Titanium	673 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Tungsten	1.3 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Uranium	1			mg/kg	14-Jun-05		0.038
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Vanadium	35.6 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Zinc	30.4			mg/kg	14-Jun-05		0.2207
F5F160308016	Soil	BRC-BKG-05C-0-0.5	Zirconium	158 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Chloride	0.84 B J	U	b	mg/kg	17-Jun-05		0.25
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Nitrate	0.25	J	h	mg/kg	17-Jun-05		0.1
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Sulfate	U			mg/kg	17-Jun-05		0.612
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	CEC	17.3			meq/100g	17-Jun-05		
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	pH (solid)	8.6	J	h	none	17-Jun-05		
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Actinium 227 [d]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Actinium 228	1.68			pCi/g	17-Jun-05	0.66	0.38
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Bismuth 210 [e]	0.7 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Bismuth 211 [f]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Bismuth 212	0.83			pCi/g	17-Jun-05	0.58	0.78
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Bismuth 214	0.85			pCi/g	17-Jun-05	0.24	0.18
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Cobalt 57	0.014 U			pCi/g	17-Jun-05	0.031	0.054
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Cobalt 60	0.003 U			pCi/g	17-Jun-05	0.067	0.12
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lead 210	0.7 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lead 211 [g]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lead 212	1.76			pCi/g	17-Jun-05	0.26	0.13
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lead 214	0.97			pCi/g	17-Jun-05	0.21	0.16
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Polonium 210 [h]	0.7 U			pCi/g	17-Jun-05	1.2	2.2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Polonium 212 [i]	0.53			pCi/g	17-Jun-05	0.37	0.5
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Polonium 214 [j]	0.85			pCi/g	17-Jun-05	0.24	0.18
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Polonium 215 [k]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Polonium 216 [l]	1.76			pCi/g	17-Jun-05	0.26	0.13
HD3JN1C4	Soil	BRC-BKG-05CR-0-0.5	Polonium 218 [m]	0.977 J	U	k, b	pCi/g	17-Jun-05	0.14	0.104
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Potassium 40	25			pCi/g	17-Jun-05	3.7	0.9
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Protactinium 234	-0.07 U			pCi/g	17-Jun-05	0.15	0.25
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Radium 223 [n]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Radium 224 [o]	1.76			pCi/g	17-Jun-05	0.26	0.13
HD3JN1C4	Soil	BRC-BKG-05CR-0-0.5	Radium 226	0.977 J	U	k, b	pCi/g	17-Jun-05	0.14	0.104
HD3JN1C5	Soil	BRC-BKG-05CR-0-0.5	Radium 228	1.93 J	U	k, b	pCi/g	17-Jun-05	0.21	0.452
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thallium 207 [p]	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thallium 208	0.61			pCi/g	17-Jun-05	0.14	0.09
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 227	-0.28 U			pCi/g	17-Jun-05	0.46	0.76
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 228	1.93			pCi/g	17-Jun-05	0.33	0.03
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 230	0.94 J	J	k	pCi/g	17-Jun-05	0.21	0.05
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 231	0.08 U			pCi/g	17-Jun-05	0.084	0.098
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 232	1.8			pCi/g	17-Jun-05	0.31	0.03
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thorium 234	1.73			pCi/g	17-Jun-05	0.69	1.1
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Uranium 233/234	1 J	U	b	pCi/g	17-Jun-05	0.25	0.08
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Uranium 235	0.08 U			pCi/g	17-Jun-05	0.084	0.098
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Uranium 238	0.96 J	J	k	pCi/g	17-Jun-05	0.24	0.07
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Moisture (%)	1.1			percent	17-Jun-05		
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Aluminum	6620 N			mg/kg	17-Jun-05		2
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Antimony	0.2 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Arsenic	3			mg/kg	17-Jun-05		0.1278
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Barium	139 N			mg/kg	17-Jun-05		0.152
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Beryllium	0.73			mg/kg	17-Jun-05		0.038
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Calcium	17200 N			mg/kg	17-Jun-05		1.028
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Chromium	6.8			mg/kg	17-Jun-05		0.1841
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Cobalt	8.8			mg/kg	17-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Copper	18.7			mg/kg	17-Jun-05		0.2205
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Iron	11700 N			mg/kg	17-Jun-05		1.173
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lead	7.6			mg/kg	17-Jun-05		0.0506
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Lithium	9.7			mg/kg	17-Jun-05		0.2425
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Magnesium	9750			mg/kg	17-Jun-05		1.176
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Manganese	522 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Mercury	0.016 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Molybdenum	0.43 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Nickel	17.4			mg/kg	17-Jun-05		0.1295
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Niobium	2.1 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Palladium	0.24			mg/kg	17-Jun-05		0.0765
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Phosphorus	1710			mg/kg	17-Jun-05		1.913
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Potassium	1580			mg/kg	17-Jun-05		2.079
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Silicon	412 N			mg/kg	17-Jun-05		0.5289
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Sodium	140			mg/kg	17-Jun-05		7.567
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Strontium	108			mg/kg	17-Jun-05		0.0735
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Tin	0.44 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Titanium	458 N			mg/kg	17-Jun-05		0.1175
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Tungsten	1.4 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Uranium	0.82 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Vanadium	32.5 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Zinc	34.4			mg/kg	17-Jun-05		0.2207
F5F210233024	Soil	BRC-BKG-05CR-0-0.5	Zirconium	140 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233025	Soil	BRC-BKG-05CR-4-6	Chloride	3 J			mg/kg	17-Jun-05		0.25
F5F210233025	Soil	BRC-BKG-05CR-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233025	Soil	BRC-BKG-05CR-4-6	Nitrate	0.96	J	h	mg/kg	17-Jun-05		0.1
F5F210233025	Soil	BRC-BKG-05CR-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233025	Soil	BRC-BKG-05CR-4-6	Sulfate	7.2			mg/kg	17-Jun-05		0.612
F5F210233025	Soil	BRC-BKG-05CR-4-6	CEC	17.4			meq/100g	17-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233025	Soil	BRC-BKG-05CR-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233025	Soil	BRC-BKG-05CR-4-6	pH (solid)	8.7	J	h	none	17-Jun-05		
F5F210233025	Soil	BRC-BKG-05CR-4-6	Actinium 227 [d]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Actinium 228	2.12			pCi/g	17-Jun-05	0.81	0.39
F5F210233025	Soil	BRC-BKG-05CR-4-6	Bismuth 210 [e]	-0.5 U			pCi/g	17-Jun-05	1.3	2.2
F5F210233025	Soil	BRC-BKG-05CR-4-6	Bismuth 211 [f]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Bismuth 212	0.93			pCi/g	17-Jun-05	0.7	0.9
F5F210233025	Soil	BRC-BKG-05CR-4-6	Bismuth 214	0.95			pCi/g	17-Jun-05	0.25	0.41
F5F210233025	Soil	BRC-BKG-05CR-4-6	Cobalt 57	-0.002 U			pCi/g	17-Jun-05	0.033	0.058
F5F210233025	Soil	BRC-BKG-05CR-4-6	Cobalt 60	0.015 U			pCi/g	17-Jun-05	0.052	0.11
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lead 210	-0.5 U			pCi/g	17-Jun-05	1.3	2.2
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lead 211 [g]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lead 212	1.73			pCi/g	17-Jun-05	0.29	0.23
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lead 214	0.89			pCi/g	17-Jun-05	0.22	0.19
F5F210233025	Soil	BRC-BKG-05CR-4-6	Polonium 210 [h]	-0.5 U			pCi/g	17-Jun-05	1.3	2.2
F5F210233025	Soil	BRC-BKG-05CR-4-6	Polonium 212 [i]	0.59			pCi/g	17-Jun-05	0.45	0.57
F5F210233025	Soil	BRC-BKG-05CR-4-6	Polonium 214 [j]	0.95			pCi/g	17-Jun-05	0.25	0.18
F5F210233025	Soil	BRC-BKG-05CR-4-6	Polonium 215 [k]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Polonium 216 [l]	1.73			pCi/g	17-Jun-05	0.29	0.23
HD3JP1C4	Soil	BRC-BKG-05CR-4-6	Polonium 218 [m]	1.07			pCi/g	17-Jun-05	0.16	0.26
F5F210233025	Soil	BRC-BKG-05CR-4-6	Potassium 40	23.9			pCi/g	17-Jun-05	3.6	0.9
F5F210233025	Soil	BRC-BKG-05CR-4-6	Protactinium 234	-0.31 U			pCi/g	17-Jun-05	0.18	0.27
F5F210233025	Soil	BRC-BKG-05CR-4-6	Radium 223 [n]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Radium 224 [o]	1.73			pCi/g	17-Jun-05	0.29	0.23
HD3JP1C4	Soil	BRC-BKG-05CR-4-6	Radium 226	1.07			pCi/g	17-Jun-05	0.16	0.26
HD3JP1C5	Soil	BRC-BKG-05CR-4-6	Radium 228	2.41			pCi/g	17-Jun-05	0.24	0.406
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thallium 207 [p]	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thallium 208	0.66			pCi/g	17-Jun-05	0.15	0.11
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 227	0.21 U			pCi/g	17-Jun-05	0.47	0.85
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 228	2.09			pCi/g	17-Jun-05	0.33	0.05
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 230	1.32			pCi/g	17-Jun-05	0.25	0.03
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 231	0.027 U			pCi/g	17-Jun-05	0.066	0.11
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 232	1.78			pCi/g	17-Jun-05	0.3	0.04

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thorium 234	-0.53 U			pCi/g	17-Jun-05	0.9	1.3
F5F210233025	Soil	BRC-BKG-05CR-4-6	Uranium 233/234	1.14	U	b	pCi/g	17-Jun-05	0.27	0.12
F5F210233025	Soil	BRC-BKG-05CR-4-6	Uranium 235	0.027 U			pCi/g	17-Jun-05	0.066	0.11
F5F210233025	Soil	BRC-BKG-05CR-4-6	Uranium 238	1.51			pCi/g	17-Jun-05	0.32	0.08
F5F210233025	Soil	BRC-BKG-05CR-4-6	Moisture (%)	5.8			percent	17-Jun-05		
F5F210233025	Soil	BRC-BKG-05CR-4-6	Aluminum	5220 N			mg/kg	17-Jun-05		2
F5F210233025	Soil	BRC-BKG-05CR-4-6	Antimony	N U			mg/kg	17-Jun-05		0.3298
F5F210233025	Soil	BRC-BKG-05CR-4-6	Arsenic	4.4			mg/kg	17-Jun-05		0.1278
F5F210233025	Soil	BRC-BKG-05CR-4-6	Barium	73 N			mg/kg	17-Jun-05		0.152
F5F210233025	Soil	BRC-BKG-05CR-4-6	Beryllium	0.61			mg/kg	17-Jun-05		0.038
F5F210233025	Soil	BRC-BKG-05CR-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233025	Soil	BRC-BKG-05CR-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233025	Soil	BRC-BKG-05CR-4-6	Calcium	10300 N			mg/kg	17-Jun-05		1.028
F5F210233025	Soil	BRC-BKG-05CR-4-6	Chromium	6			mg/kg	17-Jun-05		0.1841
F5F210233025	Soil	BRC-BKG-05CR-4-6	Cobalt	7			mg/kg	17-Jun-05		0.064
F5F210233025	Soil	BRC-BKG-05CR-4-6	Copper	13.8			mg/kg	17-Jun-05		0.2205
F5F210233025	Soil	BRC-BKG-05CR-4-6	Iron	8740 N			mg/kg	17-Jun-05		1.173
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lead	5.3			mg/kg	17-Jun-05		0.0506
F5F210233025	Soil	BRC-BKG-05CR-4-6	Lithium	8.8			mg/kg	17-Jun-05		0.2425
F5F210233025	Soil	BRC-BKG-05CR-4-6	Magnesium	7710			mg/kg	17-Jun-05		1.176
F5F210233025	Soil	BRC-BKG-05CR-4-6	Manganese	268 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233025	Soil	BRC-BKG-05CR-4-6	Mercury	0.01 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233025	Soil	BRC-BKG-05CR-4-6	Molybdenum	0.32 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233025	Soil	BRC-BKG-05CR-4-6	Nickel	14.8			mg/kg	17-Jun-05		0.1295
F5F210233025	Soil	BRC-BKG-05CR-4-6	Niobium	1.5 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233025	Soil	BRC-BKG-05CR-4-6	Palladium	0.17			mg/kg	17-Jun-05		0.0765
F5F210233025	Soil	BRC-BKG-05CR-4-6	Phosphorus	1670			mg/kg	17-Jun-05		1.913
F5F210233025	Soil	BRC-BKG-05CR-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233025	Soil	BRC-BKG-05CR-4-6	Potassium	877			mg/kg	17-Jun-05		2.079
F5F210233025	Soil	BRC-BKG-05CR-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233025	Soil	BRC-BKG-05CR-4-6	Silicon	399 N			mg/kg	17-Jun-05		0.5289
F5F210233025	Soil	BRC-BKG-05CR-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233025	Soil	BRC-BKG-05CR-4-6	Sodium	316			mg/kg	17-Jun-05		7.567

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233025	Soil	BRC-BKG-05CR-4-6	Strontium	77.8			mg/kg	17-Jun-05		0.0735
F5F210233025	Soil	BRC-BKG-05CR-4-6	Thallium	0.5 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233025	Soil	BRC-BKG-05CR-4-6	Tin	0.4 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233025	Soil	BRC-BKG-05CR-4-6	Titanium	368 N			mg/kg	17-Jun-05		0.1175
F5F210233025	Soil	BRC-BKG-05CR-4-6	Tungsten	0.99 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233025	Soil	BRC-BKG-05CR-4-6	Uranium	0.72 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233025	Soil	BRC-BKG-05CR-4-6	Vanadium	21.8 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233025	Soil	BRC-BKG-05CR-4-6	Zinc	32.2			mg/kg	17-Jun-05		0.2207
F5F210233025	Soil	BRC-BKG-05CR-4-6	Zirconium	152 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233026	Soil	BRC-BKG-05CR-9-11	Chloride	23 J			mg/kg	17-Jun-05		0.25
F5F210233026	Soil	BRC-BKG-05CR-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233026	Soil	BRC-BKG-05CR-9-11	Nitrate	1	J	h	mg/kg	17-Jun-05		0.1
F5F210233026	Soil	BRC-BKG-05CR-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233026	Soil	BRC-BKG-05CR-9-11	Sulfate	11.3			mg/kg	17-Jun-05		0.612
F5F210233026	Soil	BRC-BKG-05CR-9-11	CEC	8.7			meq/100g	17-Jun-05		
F5F210233026	Soil	BRC-BKG-05CR-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233026	Soil	BRC-BKG-05CR-9-11	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233026	Soil	BRC-BKG-05CR-9-11	Actinium 227 [d]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Actinium 228	3.4			pCi/g	17-Jun-05	1.1	0.5
F5F210233026	Soil	BRC-BKG-05CR-9-11	Bismuth 210 [e]	0.3 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233026	Soil	BRC-BKG-05CR-9-11	Bismuth 211 [f]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Bismuth 212	1.42			pCi/g	17-Jun-05	0.72	0.95
F5F210233026	Soil	BRC-BKG-05CR-9-11	Bismuth 214	1.16			pCi/g	17-Jun-05	0.27	0.21
F5F210233026	Soil	BRC-BKG-05CR-9-11	Cobalt 57	-0.031 U			pCi/g	17-Jun-05	0.036	0.056
F5F210233026	Soil	BRC-BKG-05CR-9-11	Cobalt 60	0.011 U			pCi/g	17-Jun-05	0.066	0.13
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lead 210	0.3 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lead 211 [g]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lead 212	1.98			pCi/g	17-Jun-05	0.32	0.25
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lead 214	1.23			pCi/g	17-Jun-05	0.25	0.18
F5F210233026	Soil	BRC-BKG-05CR-9-11	Polonium 210 [h]	0.3 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233026	Soil	BRC-BKG-05CR-9-11	Polonium 212 [i]	0.91			pCi/g	17-Jun-05	0.46	0.61
F5F210233026	Soil	BRC-BKG-05CR-9-11	Polonium 214 [j]	1.16			pCi/g	17-Jun-05	0.27	0.21
F5F210233026	Soil	BRC-BKG-05CR-9-11	Polonium 215 [k]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233026	Soil	BRC-BKG-05CR-9-11	Polonium 216 [l]	1.98			pCi/g	17-Jun-05	0.32	0.25
HD3J31C4	Soil	BRC-BKG-05CR-9-11	Polonium 218 [m]	0.939 J	U	k, b	pCi/g	17-Jun-05	0.13	0.128
F5F210233026	Soil	BRC-BKG-05CR-9-11	Potassium 40	28.1			pCi/g	17-Jun-05	4.1	0.9
F5F210233026	Soil	BRC-BKG-05CR-9-11	Protactinium 234	-0.08 U			pCi/g	17-Jun-05	0.18	0.31
F5F210233026	Soil	BRC-BKG-05CR-9-11	Radium 223 [n]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Radium 224 [o]	1.98			pCi/g	17-Jun-05	0.32	0.25
HD3J31C4	Soil	BRC-BKG-05CR-9-11	Radium 226	0.939 J	U	k, b	pCi/g	17-Jun-05	0.13	0.128
HD3J31C5	Soil	BRC-BKG-05CR-9-11	Radium 228	2.17			pCi/g	17-Jun-05	0.23	0.425
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thallium 207 [p]	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thallium 208	0.72			pCi/g	17-Jun-05	0.17	0.11
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 227	-0.02 U			pCi/g	17-Jun-05	0.49	0.87
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 228	1.66			pCi/g	17-Jun-05	0.31	0.07
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 230	1.16			pCi/g	17-Jun-05	0.25	0.03
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 231	0.087 J	U	b	pCi/g	17-Jun-05	0.078	0.081
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 232	1.79			pCi/g	17-Jun-05	0.32	0.03
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thorium 234	1.39 U			pCi/g	17-Jun-05	0.77	1.4
F5F210233026	Soil	BRC-BKG-05CR-9-11	Uranium 233/234	1.04	U	b	pCi/g	17-Jun-05	0.24	0.1
F5F210233026	Soil	BRC-BKG-05CR-9-11	Uranium 235	0.087 J	J	k	pCi/g	17-Jun-05	0.078	0.081
F5F210233026	Soil	BRC-BKG-05CR-9-11	Uranium 238	0.89 J	J	k	pCi/g	17-Jun-05	0.22	0.06
F5F210233026	Soil	BRC-BKG-05CR-9-11	Moisture (%)	3.4			percent	17-Jun-05		
F5F210233026	Soil	BRC-BKG-05CR-9-11	Aluminum	7660 N			mg/kg	17-Jun-05		2
F5F210233026	Soil	BRC-BKG-05CR-9-11	Antimony	0.29 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233026	Soil	BRC-BKG-05CR-9-11	Arsenic	3.4			mg/kg	17-Jun-05		0.1278
F5F210233026	Soil	BRC-BKG-05CR-9-11	Barium	121 N			mg/kg	17-Jun-05		0.152
F5F210233026	Soil	BRC-BKG-05CR-9-11	Beryllium	0.88			mg/kg	17-Jun-05		0.038
F5F210233026	Soil	BRC-BKG-05CR-9-11	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233026	Soil	BRC-BKG-05CR-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233026	Soil	BRC-BKG-05CR-9-11	Calcium	18700 N			mg/kg	17-Jun-05		1.028
F5F210233026	Soil	BRC-BKG-05CR-9-11	Chromium	12.9			mg/kg	17-Jun-05		0.1841
F5F210233026	Soil	BRC-BKG-05CR-9-11	Cobalt	9.7			mg/kg	17-Jun-05		0.064
F5F210233026	Soil	BRC-BKG-05CR-9-11	Copper	19.9			mg/kg	17-Jun-05		0.2205
F5F210233026	Soil	BRC-BKG-05CR-9-11	Iron	14100 N			mg/kg	17-Jun-05		1.173
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lead	7.7			mg/kg	17-Jun-05		0.0506

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233026	Soil	BRC-BKG-05CR-9-11	Lithium	11.5			mg/kg	17-Jun-05		0.2425
F5F210233026	Soil	BRC-BKG-05CR-9-11	Magnesium	9440			mg/kg	17-Jun-05		1.176
F5F210233026	Soil	BRC-BKG-05CR-9-11	Manganese	398 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233026	Soil	BRC-BKG-05CR-9-11	Mercury	0.011 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233026	Soil	BRC-BKG-05CR-9-11	Molybdenum	0.58 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233026	Soil	BRC-BKG-05CR-9-11	Nickel	20.6			mg/kg	17-Jun-05		0.1295
F5F210233026	Soil	BRC-BKG-05CR-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233026	Soil	BRC-BKG-05CR-9-11	Palladium	0.25			mg/kg	17-Jun-05		0.0765
F5F210233026	Soil	BRC-BKG-05CR-9-11	Phosphorus	1650			mg/kg	17-Jun-05		1.913
F5F210233026	Soil	BRC-BKG-05CR-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233026	Soil	BRC-BKG-05CR-9-11	Potassium	1160			mg/kg	17-Jun-05		2.079
F5F210233026	Soil	BRC-BKG-05CR-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233026	Soil	BRC-BKG-05CR-9-11	Silicon	648 N			mg/kg	17-Jun-05		0.5289
F5F210233026	Soil	BRC-BKG-05CR-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233026	Soil	BRC-BKG-05CR-9-11	Sodium	455			mg/kg	17-Jun-05		7.567
F5F210233026	Soil	BRC-BKG-05CR-9-11	Strontium	114			mg/kg	17-Jun-05		0.0735
F5F210233026	Soil	BRC-BKG-05CR-9-11	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233026	Soil	BRC-BKG-05CR-9-11	Tin	0.52 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233026	Soil	BRC-BKG-05CR-9-11	Titanium	512 N			mg/kg	17-Jun-05		0.1175
F5F210233026	Soil	BRC-BKG-05CR-9-11	Tungsten	0.89 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233026	Soil	BRC-BKG-05CR-9-11	Uranium	0.84 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233026	Soil	BRC-BKG-05CR-9-11	Vanadium	38.9 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233026	Soil	BRC-BKG-05CR-9-11	Zinc	46			mg/kg	17-Jun-05		0.2207
F5F210233026	Soil	BRC-BKG-05CR-9-11	Zirconium	152 E	J	j	mg/kg	17-Jun-05		0.0874
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Chloride	252			mg/kg	15-Jun-05		0.25
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Nitrate	9			mg/kg	15-Jun-05		0.1
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Sulfate	29.2			mg/kg	15-Jun-05		0.612
F5F170373001	Soil	BRC-BKG-06A-0-0.5	CEC	14.2			meq/100g	15-Jun-05		
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373001	Soil	BRC-BKG-06A-0-0.5	pH (solid)	8.2			none	15-Jun-05		
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Actinium 227 [d]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Actinium 228	1.78			pCi/g	15-Jun-05	0.65	0.42
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Bismuth 210 [e]	0.5 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Bismuth 211 [f]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Bismuth 212	0.7 U			pCi/g	15-Jun-05	0.63	0.74
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Bismuth 214	1.21			pCi/g	15-Jun-05	0.27	0.47
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Cobalt 57	0.03 U			pCi/g	15-Jun-05	0.035	0.064
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Cobalt 60	-0.017 U			pCi/g	15-Jun-05	0.062	0.11
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lead 210	0.5 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lead 211 [g]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lead 212	1.62			pCi/g	15-Jun-05	0.25	0.14
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lead 214	0.83			pCi/g	15-Jun-05	0.22	0.17
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Polonium 210 [h]	0.5 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Polonium 212 [i]	0.45 U			pCi/g	15-Jun-05	0.4	0.47
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Polonium 214 [j]	1.21			pCi/g	15-Jun-05	0.27	0.19
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Polonium 215 [k]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Polonium 216 [l]	1.62			pCi/g	15-Jun-05	0.25	0.14
HDWLW1F1	Soil	BRC-BKG-06A-0-0.5	Polonium 218 [m]	1.06	J	n	pCi/g	15-Jun-05	0.14	0.0925
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Potassium 40	22.4			pCi/g	15-Jun-05	3.6	1
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Protactinium 234	0.004 U			pCi/g	15-Jun-05	0.17	0.3
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Radium 223 [n]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Radium 224 [o]	1.62			pCi/g	15-Jun-05	0.25	0.14
HDWLW1F1	Soil	BRC-BKG-06A-0-0.5	Radium 226	1.06	J	n	pCi/g	15-Jun-05	0.14	0.0925
HDWLW1F2	Soil	BRC-BKG-06A-0-0.5	Radium 228	2.03			pCi/g	15-Jun-05	0.26	0.744
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thallium 207 [p]	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thallium 208	0.59			pCi/g	15-Jun-05	0.14	0.12
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 227	-0.29 U			pCi/g	15-Jun-05	0.51	0.84
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 228	1.67			pCi/g	15-Jun-05	0.31	0.09
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 230	1.23			pCi/g	15-Jun-05	0.26	0.05
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 231	0.038 U			pCi/g	15-Jun-05	0.055	0.076
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 232	1.82			pCi/g	15-Jun-05	0.32	0.06
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thorium 234	1.5			pCi/g	15-Jun-05	0.69	1.2
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Uranium 233/234	0.96 J			pCi/g	15-Jun-05	0.24	0.11
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Uranium 235	0.038 U			pCi/g	15-Jun-05	0.055	0.076

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Uranium 238	0.92 J			pCi/g	15-Jun-05	0.22	0.08
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Moisture (%)	1.1			percent	15-Jun-05		
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Aluminum	11600 NE	J	j	mg/kg	15-Jun-05		2
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Antimony	0.28 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Arsenic	5.4			mg/kg	15-Jun-05		0.1278
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Barium	150 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Beryllium	0.69			mg/kg	15-Jun-05		0.038
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Boron	7.5	J+	b	mg/kg	15-Jun-05		3.2
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Calcium	34200 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Chromium	15			mg/kg	15-Jun-05		0.1841
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Cobalt	8.4 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Copper	15.4 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Iron	16600 N			mg/kg	15-Jun-05		1.173
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lead	10.3			mg/kg	15-Jun-05		0.0506
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Lithium	20.4			mg/kg	15-Jun-05		0.2425
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Magnesium	11700 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Manganese	387 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Mercury	0.019 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Molybdenum	0.43 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Nickel	15.4 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Niobium	2.5 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Palladium	0.36			mg/kg	15-Jun-05		0.0765
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Phosphorus	1410			mg/kg	15-Jun-05		1.913
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Potassium	2350 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Selenium	0.37 B	J	g	mg/kg	15-Jun-05		0.1579
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Silicon	1300 N			mg/kg	15-Jun-05		0.5289
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Sodium	585			mg/kg	15-Jun-05		7.567
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Strontium	159 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Thallium	0.57 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Tin	0.51 B	J	g	mg/kg	15-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Titanium	478 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Tungsten	1 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Uranium	0.81 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Vanadium	31.6 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Zinc	51.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373001	Soil	BRC-BKG-06A-0-0.5	Zirconium	117 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373002	Soil	BRC-BKG-06A-4-6	Chloride	870			mg/kg	15-Jun-05		0.25
F5F170373002	Soil	BRC-BKG-06A-4-6	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373002	Soil	BRC-BKG-06A-4-6	Nitrate	13.4			mg/kg	15-Jun-05		0.1
F5F170373002	Soil	BRC-BKG-06A-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373002	Soil	BRC-BKG-06A-4-6	Sulfate	320			mg/kg	15-Jun-05		0.612
F5F170373002	Soil	BRC-BKG-06A-4-6	CEC	16.6			meq/100g	15-Jun-05		
F5F170373002	Soil	BRC-BKG-06A-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373002	Soil	BRC-BKG-06A-4-6	pH (solid)	8.1			none	15-Jun-05		
F5F170373002	Soil	BRC-BKG-06A-4-6	Actinium 227 [d]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Actinium 228	1.71			pCi/g	15-Jun-05	0.59	0.39
F5F170373002	Soil	BRC-BKG-06A-4-6	Bismuth 210 [e]	0.18 U			pCi/g	15-Jun-05	0.99	1.8
F5F170373002	Soil	BRC-BKG-06A-4-6	Bismuth 211 [f]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Bismuth 212	1.4			pCi/g	15-Jun-05	0.58	0.66
F5F170373002	Soil	BRC-BKG-06A-4-6	Bismuth 214	0.73			pCi/g	15-Jun-05	0.23	0.35
F5F170373002	Soil	BRC-BKG-06A-4-6	Cobalt 57	-0.004 U			pCi/g	15-Jun-05	0.026	0.044
F5F170373002	Soil	BRC-BKG-06A-4-6	Cobalt 60	0.023 U			pCi/g	15-Jun-05	0.048	0.1
F5F170373002	Soil	BRC-BKG-06A-4-6	Lead 210	0.18 U			pCi/g	15-Jun-05	0.99	1.8
F5F170373002	Soil	BRC-BKG-06A-4-6	Lead 211 [g]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Lead 212	1.24			pCi/g	15-Jun-05	0.23	0.15
F5F170373002	Soil	BRC-BKG-06A-4-6	Lead 214	0.8			pCi/g	15-Jun-05	0.18	0.14
F5F170373002	Soil	BRC-BKG-06A-4-6	Polonium 210 [h]	0.18 U			pCi/g	15-Jun-05	0.99	1.8
F5F170373002	Soil	BRC-BKG-06A-4-6	Polonium 212 [i]	0.89			pCi/g	15-Jun-05	0.37	0.42
F5F170373002	Soil	BRC-BKG-06A-4-6	Polonium 214 [j]	0.73			pCi/g	15-Jun-05	0.23	0.16
F5F170373002	Soil	BRC-BKG-06A-4-6	Polonium 215 [k]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Polonium 216 [l]	1.24			pCi/g	15-Jun-05	0.23	0.15
HDWL31C4	Soil	BRC-BKG-06A-4-6	Polonium 218 [m]	1.18	J	n	pCi/g	15-Jun-05	0.16	0.0577
F5F170373002	Soil	BRC-BKG-06A-4-6	Potassium 40	23			pCi/g	15-Jun-05	3.3	0.8

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373002	Soil	BRC-BKG-06A-4-6	Protactinium 234	-0.06 U			pCi/g	15-Jun-05	0.14	0.21
F5F170373002	Soil	BRC-BKG-06A-4-6	Radium 223 [n]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Radium 224 [o]	1.24			pCi/g	15-Jun-05	0.23	0.15
HDWL31C4	Soil	BRC-BKG-06A-4-6	Radium 226	1.18	J	n	pCi/g	15-Jun-05	0.16	0.0577
HDWL31C5	Soil	BRC-BKG-06A-4-6	Radium 228	1.69 J	J	k	pCi/g	15-Jun-05	0.25	0.821
F5F170373002	Soil	BRC-BKG-06A-4-6	Thallium 207 [p]	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Thallium 208	0.44			pCi/g	15-Jun-05	0.1	0.07
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 227	-0.07 U			pCi/g	15-Jun-05	0.38	0.67
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 228	1.79			pCi/g	15-Jun-05	0.39	0.29
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 230	1.21			pCi/g	15-Jun-05	0.27	0.11
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 231	0.034 U			pCi/g	15-Jun-05	0.059	0.087
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 232	1.7			pCi/g	15-Jun-05	0.33	0.07
F5F170373002	Soil	BRC-BKG-06A-4-6	Thorium 234	-0.26 U			pCi/g	15-Jun-05	0.69	1
F5F170373002	Soil	BRC-BKG-06A-4-6	Uranium 233/234	1.07			pCi/g	15-Jun-05	0.25	0.11
F5F170373002	Soil	BRC-BKG-06A-4-6	Uranium 235	0.034 U			pCi/g	15-Jun-05	0.059	0.087
F5F170373002	Soil	BRC-BKG-06A-4-6	Uranium 238	0.91 J			pCi/g	15-Jun-05	0.23	0.08
F5F170373002	Soil	BRC-BKG-06A-4-6	Moisture (%)	2.4			percent	15-Jun-05		
F5F170373002	Soil	BRC-BKG-06A-4-6	Aluminum	11700 NE	J	j	mg/kg	15-Jun-05		2
F5F170373002	Soil	BRC-BKG-06A-4-6	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373002	Soil	BRC-BKG-06A-4-6	Arsenic	4.9			mg/kg	15-Jun-05		0.1278
F5F170373002	Soil	BRC-BKG-06A-4-6	Barium	213 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373002	Soil	BRC-BKG-06A-4-6	Beryllium	0.69			mg/kg	15-Jun-05		0.038
F5F170373002	Soil	BRC-BKG-06A-4-6	Boron	9.1	J+	b	mg/kg	15-Jun-05		3.2
F5F170373002	Soil	BRC-BKG-06A-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373002	Soil	BRC-BKG-06A-4-6	Calcium	38500 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373002	Soil	BRC-BKG-06A-4-6	Chromium	11.2			mg/kg	15-Jun-05		0.1841
F5F170373002	Soil	BRC-BKG-06A-4-6	Cobalt	10.2 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373002	Soil	BRC-BKG-06A-4-6	Copper	17.1 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373002	Soil	BRC-BKG-06A-4-6	Iron	17000 N			mg/kg	15-Jun-05		1.173
F5F170373002	Soil	BRC-BKG-06A-4-6	Lead	9.2			mg/kg	15-Jun-05		0.0506
F5F170373002	Soil	BRC-BKG-06A-4-6	Lithium	21.3			mg/kg	15-Jun-05		0.2425
F5F170373002	Soil	BRC-BKG-06A-4-6	Magnesium	13600 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373002	Soil	BRC-BKG-06A-4-6	Manganese	553 NE	J	j	mg/kg	15-Jun-05		0.0131

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373002	Soil	BRC-BKG-06A-4-6	Mercury	0.02 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373002	Soil	BRC-BKG-06A-4-6	Molybdenum	0.73 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373002	Soil	BRC-BKG-06A-4-6	Nickel	15.6 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373002	Soil	BRC-BKG-06A-4-6	Niobium	2.1 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373002	Soil	BRC-BKG-06A-4-6	Palladium	0.72			mg/kg	15-Jun-05		0.0765
F5F170373002	Soil	BRC-BKG-06A-4-6	Phosphorus	1590			mg/kg	15-Jun-05		1.913
F5F170373002	Soil	BRC-BKG-06A-4-6	Platinum	0.045 B	J	g	mg/kg	15-Jun-05		0.0435
F5F170373002	Soil	BRC-BKG-06A-4-6	Potassium	1350 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373002	Soil	BRC-BKG-06A-4-6	Selenium	0.27 B	J	g	mg/kg	15-Jun-05		0.1579
F5F170373002	Soil	BRC-BKG-06A-4-6	Silicon	887 N			mg/kg	15-Jun-05		0.5289
F5F170373002	Soil	BRC-BKG-06A-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373002	Soil	BRC-BKG-06A-4-6	Sodium	1150			mg/kg	15-Jun-05		7.567
F5F170373002	Soil	BRC-BKG-06A-4-6	Strontium	321 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373002	Soil	BRC-BKG-06A-4-6	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373002	Soil	BRC-BKG-06A-4-6	Tin	0.52 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373002	Soil	BRC-BKG-06A-4-6	Titanium	545 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373002	Soil	BRC-BKG-06A-4-6	Tungsten	1.8 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373002	Soil	BRC-BKG-06A-4-6	Uranium	1.2			mg/kg	15-Jun-05		0.038
F5F170373002	Soil	BRC-BKG-06A-4-6	Vanadium	42.9 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373002	Soil	BRC-BKG-06A-4-6	Zinc	48.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373002	Soil	BRC-BKG-06A-4-6	Zirconium	139 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373003	Soil	BRC-BKG-06A-9-11	Chloride	337			mg/kg	15-Jun-05		0.25
F5F170373003	Soil	BRC-BKG-06A-9-11	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373003	Soil	BRC-BKG-06A-9-11	Nitrate	2.3			mg/kg	15-Jun-05		0.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373003	Soil	BRC-BKG-06A-9-11	Sulfate	44.2 B			mg/kg	15-Jun-05		0.612
F5F170373003	Soil	BRC-BKG-06A-9-11	CEC	8.2			meq/100g	15-Jun-05		
F5F170373003	Soil	BRC-BKG-06A-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373003	Soil	BRC-BKG-06A-9-11	pH (solid)	8.7			none	15-Jun-05		
F5F170373003	Soil	BRC-BKG-06A-9-11	Actinium 227 [d]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Actinium 228	1.71			pCi/g	15-Jun-05	0.63	0.34
F5F170373003	Soil	BRC-BKG-06A-9-11	Bismuth 210 [e]	0.1 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Bismuth 211 [f]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373003	Soil	BRC-BKG-06A-9-11	Bismuth 212	0.96 U			pCi/g	15-Jun-05	0.51	1.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Bismuth 214	1.18			pCi/g	15-Jun-05	0.24	0.46
F5F170373003	Soil	BRC-BKG-06A-9-11	Cobalt 57	0.005 U			pCi/g	15-Jun-05	0.031	0.054
F5F170373003	Soil	BRC-BKG-06A-9-11	Cobalt 60	0.015 U			pCi/g	15-Jun-05	0.046	0.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Lead 210	0.1 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Lead 211 [g]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Lead 212	1.25			pCi/g	15-Jun-05	0.24	0.16
F5F170373003	Soil	BRC-BKG-06A-9-11	Lead 214	1.49			pCi/g	15-Jun-05	0.29	0.15
F5F170373003	Soil	BRC-BKG-06A-9-11	Polonium 210 [h]	0.1 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373003	Soil	BRC-BKG-06A-9-11	Polonium 212 [i]	0.61 U			pCi/g	15-Jun-05	0.33	0.7
F5F170373003	Soil	BRC-BKG-06A-9-11	Polonium 214 [j]	1.18			pCi/g	15-Jun-05	0.24	0.17
F5F170373003	Soil	BRC-BKG-06A-9-11	Polonium 215 [k]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Polonium 216 [l]	1.25			pCi/g	15-Jun-05	0.24	0.16
HDWL61C4	Soil	BRC-BKG-06A-9-11	Polonium 218 [m]	1.53	J	n	pCi/g	15-Jun-05	0.19	0.128
F5F170373003	Soil	BRC-BKG-06A-9-11	Potassium 40	23.2			pCi/g	15-Jun-05	3.5	0.9
F5F170373003	Soil	BRC-BKG-06A-9-11	Protactinium 234	-0.17 U			pCi/g	15-Jun-05	0.17	0.27
F5F170373003	Soil	BRC-BKG-06A-9-11	Radium 223 [n]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Radium 224 [o]	1.25			pCi/g	15-Jun-05	0.24	0.16
HDWL61C4	Soil	BRC-BKG-06A-9-11	Radium 226	1.53	J	n	pCi/g	15-Jun-05	0.19	0.128
HDWL61C5	Soil	BRC-BKG-06A-9-11	Radium 228	1.74 J	J	k	pCi/g	15-Jun-05	0.24	0.72
F5F170373003	Soil	BRC-BKG-06A-9-11	Thallium 207 [p]	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Thallium 208	0.61			pCi/g	15-Jun-05	0.14	0.08
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 227	-0.07 U			pCi/g	15-Jun-05	0.44	0.77
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 228	1.5			pCi/g	15-Jun-05	0.34	0.18
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 230	1.92			pCi/g	15-Jun-05	0.37	0.09
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 231	0.052 U			pCi/g	15-Jun-05	0.07	0.093
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 232	1.59			pCi/g	15-Jun-05	0.33	0.06
F5F170373003	Soil	BRC-BKG-06A-9-11	Thorium 234	1.55			pCi/g	15-Jun-05	0.74	1.3
F5F170373003	Soil	BRC-BKG-06A-9-11	Uranium 233/234	1.84			pCi/g	15-Jun-05	0.38	0.13
F5F170373003	Soil	BRC-BKG-06A-9-11	Uranium 235	0.052 U			pCi/g	15-Jun-05	0.07	0.093
F5F170373003	Soil	BRC-BKG-06A-9-11	Uranium 238	1.59			pCi/g	15-Jun-05	0.35	0.08
F5F170373003	Soil	BRC-BKG-06A-9-11	Moisture (%)	2.5			percent	15-Jun-05		
F5F170373003	Soil	BRC-BKG-06A-9-11	Aluminum	10300 NE	J	j	mg/kg	15-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373003	Soil	BRC-BKG-06A-9-11	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373003	Soil	BRC-BKG-06A-9-11	Arsenic	5.7			mg/kg	15-Jun-05		0.1278
F5F170373003	Soil	BRC-BKG-06A-9-11	Barium	142 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373003	Soil	BRC-BKG-06A-9-11	Beryllium	0.5 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373003	Soil	BRC-BKG-06A-9-11	Boron	6.2	J+	b	mg/kg	15-Jun-05		3.2
F5F170373003	Soil	BRC-BKG-06A-9-11	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373003	Soil	BRC-BKG-06A-9-11	Calcium	49100 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373003	Soil	BRC-BKG-06A-9-11	Chromium	10.3			mg/kg	15-Jun-05		0.1841
F5F170373003	Soil	BRC-BKG-06A-9-11	Cobalt	8.8 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373003	Soil	BRC-BKG-06A-9-11	Copper	17.2 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373003	Soil	BRC-BKG-06A-9-11	Iron	14100 N			mg/kg	15-Jun-05		1.173
F5F170373003	Soil	BRC-BKG-06A-9-11	Lead	5.3			mg/kg	15-Jun-05		0.0506
F5F170373003	Soil	BRC-BKG-06A-9-11	Lithium	24.4			mg/kg	15-Jun-05		0.2425
F5F170373003	Soil	BRC-BKG-06A-9-11	Magnesium	13500 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373003	Soil	BRC-BKG-06A-9-11	Manganese	351 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373003	Soil	BRC-BKG-06A-9-11	Mercury	0.018 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373003	Soil	BRC-BKG-06A-9-11	Molybdenum	0.63 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373003	Soil	BRC-BKG-06A-9-11	Nickel	15.2 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373003	Soil	BRC-BKG-06A-9-11	Niobium	1.5 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373003	Soil	BRC-BKG-06A-9-11	Palladium	0.77			mg/kg	15-Jun-05		0.0765
F5F170373003	Soil	BRC-BKG-06A-9-11	Phosphorus	1440			mg/kg	15-Jun-05		1.913
F5F170373003	Soil	BRC-BKG-06A-9-11	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373003	Soil	BRC-BKG-06A-9-11	Potassium	879 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373003	Soil	BRC-BKG-06A-9-11	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373003	Soil	BRC-BKG-06A-9-11	Silicon	687 N			mg/kg	15-Jun-05		0.5289
F5F170373003	Soil	BRC-BKG-06A-9-11	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373003	Soil	BRC-BKG-06A-9-11	Sodium	1060			mg/kg	15-Jun-05		7.567
F5F170373003	Soil	BRC-BKG-06A-9-11	Strontium	379 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373003	Soil	BRC-BKG-06A-9-11	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373003	Soil	BRC-BKG-06A-9-11	Tin	0.39 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373003	Soil	BRC-BKG-06A-9-11	Titanium	533 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373003	Soil	BRC-BKG-06A-9-11	Tungsten	1.7 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373003	Soil	BRC-BKG-06A-9-11	Uranium	1.4			mg/kg	15-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373003	Soil	BRC-BKG-06A-9-11	Vanadium	45.6 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373003	Soil	BRC-BKG-06A-9-11	Zinc	39.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373003	Soil	BRC-BKG-06A-9-11	Zirconium	119 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Chloride	3.4			mg/kg	15-Jun-05		0.25
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Fluoride	1.1			mg/kg	15-Jun-05		0.051
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Nitrate	U			mg/kg	15-Jun-05		0.1
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Sulfate	23.3			mg/kg	15-Jun-05		0.612
F5F170373004	Soil	BRC-BKG-06B-0-0.5	CEC	8.6			meq/100g	15-Jun-05		
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373004	Soil	BRC-BKG-06B-0-0.5	pH (solid)	9.2			none	15-Jun-05		
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Actinium 227 [d]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Actinium 228	2.09			pCi/g	15-Jun-05	0.74	0.47
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Bismuth 210 [e]	1.1 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Bismuth 211 [f]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Bismuth 212	0.98			pCi/g	15-Jun-05	0.7	0.86
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Bismuth 214	0.87			pCi/g	15-Jun-05	0.25	0.39
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Cobalt 57	0.026 U			pCi/g	15-Jun-05	0.029	0.052
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Cobalt 60	0.011 U			pCi/g	15-Jun-05	0.061	0.12
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lead 210	1.1 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lead 211 [g]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lead 212	1.46			pCi/g	15-Jun-05	0.25	0.18
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lead 214	0.98			pCi/g	15-Jun-05	0.23	0.17
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Polonium 210 [h]	1.1 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Polonium 212 [i]	0.63			pCi/g	15-Jun-05	0.45	0.55
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Polonium 214 [j]	0.87			pCi/g	15-Jun-05	0.25	0.18
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Polonium 215 [k]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Polonium 216 [l]	1.46			pCi/g	15-Jun-05	0.25	0.18
HDWL71C4	Soil	BRC-BKG-06B-0-0.5	Polonium 218 [m]	1.02			pCi/g	15-Jun-05	0.15	0.211
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Potassium 40	24.6			pCi/g	15-Jun-05	3.7	0.9
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Protactinium 234	-0.15 U			pCi/g	15-Jun-05	0.16	0.26
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Radium 223 [n]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Radium 224 [o]	1.46			pCi/g	15-Jun-05	0.25	0.18

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDWL71C4	Soil	BRC-BKG-06B-0-0.5	Radium 226	1.02			pCi/g	15-Jun-05	0.15	0.211
HDWL71C5	Soil	BRC-BKG-06B-0-0.5	Radium 228	1.85 J	J	k	pCi/g	15-Jun-05	0.24	0.66
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thallium 207 [p]	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thallium 208	0.69			pCi/g	15-Jun-05	0.15	0.11
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 227	0.2 U			pCi/g	15-Jun-05	0.4	0.73
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 228	2.09			pCi/g	15-Jun-05	0.37	0.16
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 230	1.26			pCi/g	15-Jun-05	0.27	0.1
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 231	0.09 J			pCi/g	15-Jun-05	0.073	0.035
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 232	2.08			pCi/g	15-Jun-05	0.36	0.07
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thorium 234	1.84			pCi/g	15-Jun-05	0.53	0.95
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Uranium 233/234	1.23			pCi/g	15-Jun-05	0.27	0.07
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Uranium 235	0.09 J			pCi/g	15-Jun-05	0.073	0.035
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Uranium 238	0.94 J			pCi/g	15-Jun-05	0.23	0.05
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Moisture (%)	1			percent	15-Jun-05		
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Aluminum	13800 NE	J	j	mg/kg	15-Jun-05		2
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Antimony	0.12 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Arsenic	6.3			mg/kg	15-Jun-05		0.1278
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Barium	193 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Beryllium	0.77			mg/kg	15-Jun-05		0.038
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Boron	8.3	J+	b	mg/kg	15-Jun-05		3.2
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Calcium	31400 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Chromium	14.5			mg/kg	15-Jun-05		0.1841
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Cobalt	10.1 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Copper	19.2 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Iron	17200 N			mg/kg	15-Jun-05		1.173
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lead	10.5			mg/kg	15-Jun-05		0.0506
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Lithium	22			mg/kg	15-Jun-05		0.2425
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Magnesium	14600 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Manganese	534 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Mercury	0.0093 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Molybdenum	0.64 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Nickel	19.4 E	J	j	mg/kg	15-Jun-05		0.1295

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Palladium	0.38			mg/kg	15-Jun-05		0.0765
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Phosphorus	1460			mg/kg	15-Jun-05		1.913
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Potassium	2740 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Selenium	0.23 B	J	g	mg/kg	15-Jun-05		0.1579
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Silicon	1230 N			mg/kg	15-Jun-05		0.5289
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Sodium	551			mg/kg	15-Jun-05		7.567
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Strontium	163 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Thallium	0.6 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Tin	0.61 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Titanium	589 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Tungsten	1.1 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Uranium	1.1			mg/kg	15-Jun-05		0.038
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Vanadium	42.1 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Zinc	51.2 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373004	Soil	BRC-BKG-06B-0-0.5	Zirconium	120 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373005	Soil	BRC-BKG-06B-4-6	Chloride	758			mg/kg	15-Jun-05		0.25
F5F170373005	Soil	BRC-BKG-06B-4-6	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373005	Soil	BRC-BKG-06B-4-6	Nitrate	6.6			mg/kg	15-Jun-05		0.1
F5F170373005	Soil	BRC-BKG-06B-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373005	Soil	BRC-BKG-06B-4-6	Sulfate	361			mg/kg	15-Jun-05		0.612
F5F170373005	Soil	BRC-BKG-06B-4-6	CEC	8.7			meq/100g	15-Jun-05		
F5F170373005	Soil	BRC-BKG-06B-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373005	Soil	BRC-BKG-06B-4-6	pH (solid)	8.4			none	15-Jun-05		
F5F170373005	Soil	BRC-BKG-06B-4-6	Actinium 227 [d]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Actinium 228	1.64			pCi/g	15-Jun-05	0.65	0.41
F5F170373005	Soil	BRC-BKG-06B-4-6	Bismuth 210 [e]	-0.1 U			pCi/g	15-Jun-05	1.2	2
F5F170373005	Soil	BRC-BKG-06B-4-6	Bismuth 211 [f]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Bismuth 212	0.85 U			pCi/g	15-Jun-05	0.54	1.1
F5F170373005	Soil	BRC-BKG-06B-4-6	Bismuth 214	0.96			pCi/g	15-Jun-05	0.23	0.41
F5F170373005	Soil	BRC-BKG-06B-4-6	Cobalt 57	-0.014 U			pCi/g	15-Jun-05	0.031	0.052

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373005	Soil	BRC-BKG-06B-4-6	Cobalt 60	-0.008 U			pCi/g	15-Jun-05	0.059	0.11
F5F170373005	Soil	BRC-BKG-06B-4-6	Lead 210	-0.1 U			pCi/g	15-Jun-05	1.2	2
F5F170373005	Soil	BRC-BKG-06B-4-6	Lead 211 [g]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Lead 212	1.29			pCi/g	15-Jun-05	0.24	0.2
F5F170373005	Soil	BRC-BKG-06B-4-6	Lead 214	0.8			pCi/g	15-Jun-05	0.26	0.19
F5F170373005	Soil	BRC-BKG-06B-4-6	Polonium 210 [h]	-0.1 U			pCi/g	15-Jun-05	1.2	2
F5F170373005	Soil	BRC-BKG-06B-4-6	Polonium 212 [i]	0.55 U			pCi/g	15-Jun-05	0.34	0.7
F5F170373005	Soil	BRC-BKG-06B-4-6	Polonium 214 [j]	0.96			pCi/g	15-Jun-05	0.23	0.17
F5F170373005	Soil	BRC-BKG-06B-4-6	Polonium 215 [k]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Polonium 216 [l]	1.29			pCi/g	15-Jun-05	0.24	0.2
HDWL91C4	Soil	BRC-BKG-06B-4-6	Polonium 218 [m]	1.09	J	n	pCi/g	15-Jun-05	0.14	0.147
F5F170373005	Soil	BRC-BKG-06B-4-6	Potassium 40	20.6			pCi/g	15-Jun-05	3.3	0.9
F5F170373005	Soil	BRC-BKG-06B-4-6	Protactinium 234	-0.06 U			pCi/g	15-Jun-05	0.16	0.27
F5F170373005	Soil	BRC-BKG-06B-4-6	Radium 223 [n]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Radium 224 [o]	1.29			pCi/g	15-Jun-05	0.24	0.2
HDWL91C4	Soil	BRC-BKG-06B-4-6	Radium 226	1.09	J	n	pCi/g	15-Jun-05	0.14	0.147
HDWL91C5	Soil	BRC-BKG-06B-4-6	Radium 228	2.02			pCi/g	15-Jun-05	0.25	0.704
F5F170373005	Soil	BRC-BKG-06B-4-6	Thallium 207 [p]	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Thallium 208	0.43			pCi/g	15-Jun-05	0.13	0.09
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 227	-0.02 U			pCi/g	15-Jun-05	0.42	0.72
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 228	1.62			pCi/g	15-Jun-05	0.32	0.15
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 230	1.18			pCi/g	15-Jun-05	0.25	0.06
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 231	0.055 J			pCi/g	15-Jun-05	0.062	0.038
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 232	1.24			pCi/g	15-Jun-05	0.26	0.07
F5F170373005	Soil	BRC-BKG-06B-4-6	Thorium 234	1.54			pCi/g	15-Jun-05	0.78	1.1
F5F170373005	Soil	BRC-BKG-06B-4-6	Uranium 233/234	1.21			pCi/g	15-Jun-05	0.28	0.09
F5F170373005	Soil	BRC-BKG-06B-4-6	Uranium 235	0.055 J			pCi/g	15-Jun-05	0.062	0.038
F5F170373005	Soil	BRC-BKG-06B-4-6	Uranium 238	1.09			pCi/g	15-Jun-05	0.26	0.07
F5F170373005	Soil	BRC-BKG-06B-4-6	Moisture (%)	3.5			percent	15-Jun-05		
F5F170373005	Soil	BRC-BKG-06B-4-6	Aluminum	11600 NE	J	j	mg/kg	15-Jun-05		2
F5F170373005	Soil	BRC-BKG-06B-4-6	Antimony	0.17 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373005	Soil	BRC-BKG-06B-4-6	Arsenic	5.1			mg/kg	15-Jun-05		0.1278
F5F170373005	Soil	BRC-BKG-06B-4-6	Barium	210 E	J	j	mg/kg	15-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373005	Soil	BRC-BKG-06B-4-6	Beryllium	0.64			mg/kg	15-Jun-05		0.038
F5F170373005	Soil	BRC-BKG-06B-4-6	Boron	6.3	J+	b	mg/kg	15-Jun-05		3.2
F5F170373005	Soil	BRC-BKG-06B-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373005	Soil	BRC-BKG-06B-4-6	Calcium	49100 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373005	Soil	BRC-BKG-06B-4-6	Chromium	9.5			mg/kg	15-Jun-05		0.1841
F5F170373005	Soil	BRC-BKG-06B-4-6	Cobalt	10.3 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373005	Soil	BRC-BKG-06B-4-6	Copper	19 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373005	Soil	BRC-BKG-06B-4-6	Iron	15500 N			mg/kg	15-Jun-05		1.173
F5F170373005	Soil	BRC-BKG-06B-4-6	Lead	6.9			mg/kg	15-Jun-05		0.0506
F5F170373005	Soil	BRC-BKG-06B-4-6	Lithium	17.1			mg/kg	15-Jun-05		0.2425
F5F170373005	Soil	BRC-BKG-06B-4-6	Magnesium	13600 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373005	Soil	BRC-BKG-06B-4-6	Manganese	478 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373005	Soil	BRC-BKG-06B-4-6	Mercury	0.023 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373005	Soil	BRC-BKG-06B-4-6	Molybdenum	0.49 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373005	Soil	BRC-BKG-06B-4-6	Nickel	17.2 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373005	Soil	BRC-BKG-06B-4-6	Niobium	1.3 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373005	Soil	BRC-BKG-06B-4-6	Palladium	0.84			mg/kg	15-Jun-05		0.0765
F5F170373005	Soil	BRC-BKG-06B-4-6	Phosphorus	1550			mg/kg	15-Jun-05		1.913
F5F170373005	Soil	BRC-BKG-06B-4-6	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373005	Soil	BRC-BKG-06B-4-6	Potassium	1310 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373005	Soil	BRC-BKG-06B-4-6	Selenium	0.35 B	J	g	mg/kg	15-Jun-05		0.1579
F5F170373005	Soil	BRC-BKG-06B-4-6	Silicon	792 N			mg/kg	15-Jun-05		0.5289
F5F170373005	Soil	BRC-BKG-06B-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373005	Soil	BRC-BKG-06B-4-6	Sodium	1320			mg/kg	15-Jun-05		7.567
F5F170373005	Soil	BRC-BKG-06B-4-6	Strontium	347 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373005	Soil	BRC-BKG-06B-4-6	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373005	Soil	BRC-BKG-06B-4-6	Tin	0.46 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373005	Soil	BRC-BKG-06B-4-6	Titanium	651 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373005	Soil	BRC-BKG-06B-4-6	Tungsten	1.1 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373005	Soil	BRC-BKG-06B-4-6	Uranium	1.3			mg/kg	15-Jun-05		0.038
F5F170373005	Soil	BRC-BKG-06B-4-6	Vanadium	48 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373005	Soil	BRC-BKG-06B-4-6	Zinc	41.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373005	Soil	BRC-BKG-06B-4-6	Zirconium	135 NE	J	j	mg/kg	15-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373006	Soil	BRC-BKG-06B-9-11	Chloride	209			mg/kg	15-Jun-05		0.25
F5F170373006	Soil	BRC-BKG-06B-9-11	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373006	Soil	BRC-BKG-06B-9-11	Nitrate	0.85			mg/kg	15-Jun-05		0.1
F5F170373006	Soil	BRC-BKG-06B-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373006	Soil	BRC-BKG-06B-9-11	Sulfate	32.4			mg/kg	15-Jun-05		0.612
F5F170373006	Soil	BRC-BKG-06B-9-11	CEC	14.6			meq/100g	15-Jun-05		
F5F170373006	Soil	BRC-BKG-06B-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373006	Soil	BRC-BKG-06B-9-11	pH (solid)	8.7			none	15-Jun-05		
F5F170373006	Soil	BRC-BKG-06B-9-11	Actinium 227 [d]	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Actinium 228	1.69			pCi/g	15-Jun-05	0.65	0.37
F5F170373006	Soil	BRC-BKG-06B-9-11	Bismuth 210 [e]	0.2 U			pCi/g	15-Jun-05	1.1	1.9
F5F170373006	Soil	BRC-BKG-06B-9-11	Bismuth 211 [f]	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Bismuth 212	0.6 U			pCi/g	15-Jun-05	0.47	0.96
F5F170373006	Soil	BRC-BKG-06B-9-11	Bismuth 214	0.9			pCi/g	15-Jun-05	0.24	0.17
F5F170373006	Soil	BRC-BKG-06B-9-11	Cobalt 57	0.017 U			pCi/g	15-Jun-05	0.031	0.056
F5F170373006	Soil	BRC-BKG-06B-9-11	Cobalt 60	0.043 U			pCi/g	15-Jun-05	0.047	0.11
F5F170373006	Soil	BRC-BKG-06B-9-11	Lead 210	0.2 U			pCi/g	15-Jun-05	1.1	1.9
F5F170373006	Soil	BRC-BKG-06B-9-11	Lead 211 [g]	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Lead 212	1.4			pCi/g	15-Jun-05	0.22	0.11
F5F170373006	Soil	BRC-BKG-06B-9-11	Lead 214	1			pCi/g	15-Jun-05	0.23	0.14
F5F170373006	Soil	BRC-BKG-06B-9-11	Polonium 210 [h]	0.2 U			pCi/g	15-Jun-05	1.1	1.9
F5F170373006	Soil	BRC-BKG-06B-9-11	Polonium 212 [i]	0.39 U			pCi/g	15-Jun-05	0.3	0.61
F5F170373006	Soil	BRC-BKG-06B-9-11	Polonium 214 [j]	0.9			pCi/g	15-Jun-05	0.24	0.17
F5F170373006	Soil	BRC-BKG-06B-9-11	Polonium 215 [k]	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Polonium 216 [l]	1.4			pCi/g	15-Jun-05	0.22	0.11
HDWMA1C4	Soil	BRC-BKG-06B-9-11	Polonium 218 [m]	0.984 J	J	k	pCi/g	15-Jun-05	0.12	0.0952
F5F170373006	Soil	BRC-BKG-06B-9-11	Potassium 40	22.4			pCi/g	15-Jun-05	3.4	1.1
F5F170373006	Soil	BRC-BKG-06B-9-11	Protactinium 234	0.03 U			pCi/g	15-Jun-05	0.16	0.27
F5F170373006	Soil	BRC-BKG-06B-9-11	Radium 223 [n]	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Radium 224 [o]	1.4			pCi/g	15-Jun-05	0.22	0.11
HDWMA1C4	Soil	BRC-BKG-06B-9-11	Radium 226	0.984 J	J	k	pCi/g	15-Jun-05	0.12	0.0952
HDWMA1C5	Soil	BRC-BKG-06B-9-11	Radium 228	1.86 J	J	k	pCi/g	15-Jun-05	0.24	0.577
F5F170373006	Soil	BRC-BKG-06B-9-11	Thallium 207 [p]	0.11 U			pCi/g	15-Jun-05	0.46	0.82

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373006	Soil	BRC-BKG-06B-9-11	Thallium 208	0.37			pCi/g	15-Jun-05	0.11	0.1
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 227	0.11 U			pCi/g	15-Jun-05	0.46	0.82
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 228	1.64			pCi/g	15-Jun-05	0.32	0.14
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 230	1.45			pCi/g	15-Jun-05	0.29	0.08
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 231	0.092 J			pCi/g	15-Jun-05	0.075	0.036
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 232	1.33			pCi/g	15-Jun-05	0.27	0.06
F5F170373006	Soil	BRC-BKG-06B-9-11	Thorium 234	0.43 U			pCi/g	15-Jun-05	0.65	1.1
F5F170373006	Soil	BRC-BKG-06B-9-11	Uranium 233/234	1.37			pCi/g	15-Jun-05	0.29	0.06
F5F170373006	Soil	BRC-BKG-06B-9-11	Uranium 235	0.092 J			pCi/g	15-Jun-05	0.075	0.036
F5F170373006	Soil	BRC-BKG-06B-9-11	Uranium 238	1.47			pCi/g	15-Jun-05	0.3	0.06
F5F170373006	Soil	BRC-BKG-06B-9-11	Moisture (%)	3.5			percent	15-Jun-05		
F5F170373006	Soil	BRC-BKG-06B-9-11	Aluminum	10800 NE	J	j	mg/kg	15-Jun-05		2
F5F170373006	Soil	BRC-BKG-06B-9-11	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373006	Soil	BRC-BKG-06B-9-11	Arsenic	4.7			mg/kg	15-Jun-05		0.1278
F5F170373006	Soil	BRC-BKG-06B-9-11	Barium	202 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373006	Soil	BRC-BKG-06B-9-11	Beryllium	0.63			mg/kg	15-Jun-05		0.038
F5F170373006	Soil	BRC-BKG-06B-9-11	Boron	4.3 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373006	Soil	BRC-BKG-06B-9-11	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373006	Soil	BRC-BKG-06B-9-11	Calcium	45100 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373006	Soil	BRC-BKG-06B-9-11	Chromium	9.4			mg/kg	15-Jun-05		0.1841
F5F170373006	Soil	BRC-BKG-06B-9-11	Cobalt	9.9 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373006	Soil	BRC-BKG-06B-9-11	Copper	16.1 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373006	Soil	BRC-BKG-06B-9-11	Iron	15300 N			mg/kg	15-Jun-05		1.173
F5F170373006	Soil	BRC-BKG-06B-9-11	Lead	6.7			mg/kg	15-Jun-05		0.0506
F5F170373006	Soil	BRC-BKG-06B-9-11	Lithium	18.5			mg/kg	15-Jun-05		0.2425
F5F170373006	Soil	BRC-BKG-06B-9-11	Magnesium	12700 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373006	Soil	BRC-BKG-06B-9-11	Manganese	446 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373006	Soil	BRC-BKG-06B-9-11	Mercury	0.014 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373006	Soil	BRC-BKG-06B-9-11	Molybdenum	0.38 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373006	Soil	BRC-BKG-06B-9-11	Nickel	15.2 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373006	Soil	BRC-BKG-06B-9-11	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373006	Soil	BRC-BKG-06B-9-11	Palladium	0.88			mg/kg	15-Jun-05		0.0765
F5F170373006	Soil	BRC-BKG-06B-9-11	Phosphorus	1450			mg/kg	15-Jun-05		1.913

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373006	Soil	BRC-BKG-06B-9-11	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373006	Soil	BRC-BKG-06B-9-11	Potassium	898 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373006	Soil	BRC-BKG-06B-9-11	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373006	Soil	BRC-BKG-06B-9-11	Silicon	620 N			mg/kg	15-Jun-05		0.5289
F5F170373006	Soil	BRC-BKG-06B-9-11	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373006	Soil	BRC-BKG-06B-9-11	Sodium	980			mg/kg	15-Jun-05		7.567
F5F170373006	Soil	BRC-BKG-06B-9-11	Strontium	411 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373006	Soil	BRC-BKG-06B-9-11	Thallium	0.36 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373006	Soil	BRC-BKG-06B-9-11	Tin	0.39 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373006	Soil	BRC-BKG-06B-9-11	Titanium	481 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373006	Soil	BRC-BKG-06B-9-11	Tungsten	0.87 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373006	Soil	BRC-BKG-06B-9-11	Uranium	1.2			mg/kg	15-Jun-05		0.038
F5F170373006	Soil	BRC-BKG-06B-9-11	Vanadium	47.3 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373006	Soil	BRC-BKG-06B-9-11	Zinc	41.9 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373006	Soil	BRC-BKG-06B-9-11	Zirconium	123 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Chloride	1.3 B			mg/kg	15-Jun-05		0.25
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Fluoride	0.37 B			mg/kg	15-Jun-05		0.051
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Nitrate	0.14 B			mg/kg	15-Jun-05		0.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Sulfate	3.4 B			mg/kg	15-Jun-05		0.612
F5F170373007	Soil	BRC-BKG-06C-0-0.5	CEC	10.5			meq/100g	15-Jun-05		
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373007	Soil	BRC-BKG-06C-0-0.5	pH (solid)	9			none	15-Jun-05		
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Actinium 227 [d]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Actinium 228	1.59			pCi/g	15-Jun-05	0.58	0.31
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Bismuth 210 [e]	1.19 U			pCi/g	15-Jun-05	0.98	1.9
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Bismuth 211 [f]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Bismuth 212	1.09			pCi/g	15-Jun-05	0.45	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Bismuth 214	0.63			pCi/g	15-Jun-05	0.2	0.36
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Cobalt 57	-0.002 U			pCi/g	15-Jun-05	0.027	0.046
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Cobalt 60	-0.053 U			pCi/g	15-Jun-05	0.06	0.097
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lead 210	1.19 U			pCi/g	15-Jun-05	0.98	1.9
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lead 211 [g]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lead 212	1.42			pCi/g	15-Jun-05	0.24	0.16
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lead 214	0.84			pCi/g	15-Jun-05	0.19	0.16
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Polonium 210 [h]	1.19 U			pCi/g	15-Jun-05	0.98	1.9
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Polonium 212 [i]	0.7			pCi/g	15-Jun-05	0.29	0.44
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Polonium 214 [j]	0.63			pCi/g	15-Jun-05	0.2	0.2
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Polonium 215 [k]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Polonium 216 [l]	1.42			pCi/g	15-Jun-05	0.24	0.16
HDWMC1C4	Soil	BRC-BKG-06C-0-0.5	Polonium 218 [m]	0.693 J	J	k	pCi/g	15-Jun-05	0.1	0.127
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Potassium 40	21.4			pCi/g	15-Jun-05	3.1	5.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Protactinium 234	-0.07 U			pCi/g	15-Jun-05	0.14	0.24
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Radium 223 [n]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Radium 224 [o]	1.42			pCi/g	15-Jun-05	0.24	0.16
HDWMC1C4	Soil	BRC-BKG-06C-0-0.5	Radium 226	0.693 J	J	k	pCi/g	15-Jun-05	0.1	0.127
HDWMC1C5	Soil	BRC-BKG-06C-0-0.5	Radium 228	1.97 J	J	k	pCi/g	15-Jun-05	0.24	0.556
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thallium 207 [p]	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thallium 208	0.5			pCi/g	15-Jun-05	0.12	0.09
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 227	-0.27 U			pCi/g	15-Jun-05	0.41	0.69
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 228	1.96			pCi/g	15-Jun-05	0.37	0.15
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 230	1.33			pCi/g	15-Jun-05	0.29	0.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 231	0 U			pCi/g	15-Jun-05	0	0.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 232	2			pCi/g	15-Jun-05	0.36	0.05
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thorium 234	1.12			pCi/g	15-Jun-05	0.92	1.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Uranium 233/234	1.13			pCi/g	15-Jun-05	0.3	0.15
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Uranium 235	0 U			pCi/g	15-Jun-05	0	0.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Uranium 238	0.91 J			pCi/g	15-Jun-05	0.26	0.1
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Moisture (%)	1.1			percent	15-Jun-05		
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Aluminum	12400 NE	J	j	mg/kg	15-Jun-05		2
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Antimony	0.25 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Arsenic	5.6			mg/kg	15-Jun-05		0.1278
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Barium	218 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Beryllium	0.76			mg/kg	15-Jun-05		0.038
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Boron	6.1	J+	b	mg/kg	15-Jun-05		3.2
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Calcium	33300 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Chromium	13.5			mg/kg	15-Jun-05		0.1841
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Cobalt	9.5 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Copper	19.1 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Iron	17900 N			mg/kg	15-Jun-05		1.173
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lead	10.9			mg/kg	15-Jun-05		0.0506
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Lithium	20.5			mg/kg	15-Jun-05		0.2425
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Magnesium	13400 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Manganese	562 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Mercury	0.012 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Molybdenum	0.57 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Nickel	16.6 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Palladium	0.48			mg/kg	15-Jun-05		0.0765
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Phosphorus	1550			mg/kg	15-Jun-05		1.913
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Potassium	2400 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Silicon	1210 N			mg/kg	15-Jun-05		0.5289
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Sodium	337			mg/kg	15-Jun-05		7.567
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Strontium	200 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Tin	0.55 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Titanium	540 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Tungsten	0.89 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Uranium	1			mg/kg	15-Jun-05		0.038
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Vanadium	40.4 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Zinc	52 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373007	Soil	BRC-BKG-06C-0-0.5	Zirconium	123 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373008	Soil	BRC-BKG-06C-4-6	Chloride	236			mg/kg	15-Jun-05		0.25
F5F170373008	Soil	BRC-BKG-06C-4-6	Fluoride	0.31 B			mg/kg	15-Jun-05		0.051
F5F170373008	Soil	BRC-BKG-06C-4-6	Nitrate	0.49			mg/kg	15-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373008	Soil	BRC-BKG-06C-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373008	Soil	BRC-BKG-06C-4-6	Sulfate	102			mg/kg	15-Jun-05		0.612
F5F170373008	Soil	BRC-BKG-06C-4-6	CEC	6.2			meq/100g	15-Jun-05		
F5F170373008	Soil	BRC-BKG-06C-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373008	Soil	BRC-BKG-06C-4-6	pH (solid)	8.7			none	15-Jun-05		
F5F170373008	Soil	BRC-BKG-06C-4-6	Actinium 227 [d]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Actinium 228	1.7			pCi/g	15-Jun-05	0.63	0.38
F5F170373008	Soil	BRC-BKG-06C-4-6	Bismuth 210 [e]	0.3 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373008	Soil	BRC-BKG-06C-4-6	Bismuth 211 [f]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Bismuth 212	0.54 U			pCi/g	15-Jun-05	0.56	0.82
F5F170373008	Soil	BRC-BKG-06C-4-6	Bismuth 214	0.74			pCi/g	15-Jun-05	0.25	0.18
F5F170373008	Soil	BRC-BKG-06C-4-6	Cobalt 57	0.016 U			pCi/g	15-Jun-05	0.03	0.055
F5F170373008	Soil	BRC-BKG-06C-4-6	Cobalt 60	0.013 U			pCi/g	15-Jun-05	0.05	0.11
F5F170373008	Soil	BRC-BKG-06C-4-6	Lead 210	0.3 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373008	Soil	BRC-BKG-06C-4-6	Lead 211 [g]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Lead 212	1.08			pCi/g	15-Jun-05	0.23	0.17
F5F170373008	Soil	BRC-BKG-06C-4-6	Lead 214	0.88			pCi/g	15-Jun-05	0.21	0.15
F5F170373008	Soil	BRC-BKG-06C-4-6	Polonium 210 [h]	0.3 U			pCi/g	15-Jun-05	1.2	2.2
F5F170373008	Soil	BRC-BKG-06C-4-6	Polonium 212 [i]	0.35 U			pCi/g	15-Jun-05	0.36	0.52
F5F170373008	Soil	BRC-BKG-06C-4-6	Polonium 214 [j]	0.74			pCi/g	15-Jun-05	0.25	0.18
F5F170373008	Soil	BRC-BKG-06C-4-6	Polonium 215 [k]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Polonium 216 [l]	1.08			pCi/g	15-Jun-05	0.23	0.17
HDWMD1C4	Soil	BRC-BKG-06C-4-6	Polonium 218 [m]	0.807 J	J	k, n	pCi/g	15-Jun-05	0.11	0.0558
F5F170373008	Soil	BRC-BKG-06C-4-6	Potassium 40	22.2			pCi/g	15-Jun-05	3.5	0.9
F5F170373008	Soil	BRC-BKG-06C-4-6	Protactinium 234	-0.1 U			pCi/g	15-Jun-05	0.16	0.26
F5F170373008	Soil	BRC-BKG-06C-4-6	Radium 223 [n]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Radium 224 [o]	1.08			pCi/g	15-Jun-05	0.23	0.17
HDWMD1C4	Soil	BRC-BKG-06C-4-6	Radium 226	0.807 J	J	k, n	pCi/g	15-Jun-05	0.11	0.0558
HDWMD1C5	Soil	BRC-BKG-06C-4-6	Radium 228	1.15 J	J	k	pCi/g	15-Jun-05	0.19	0.552
F5F170373008	Soil	BRC-BKG-06C-4-6	Thallium 207 [p]	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Thallium 208	0.48			pCi/g	15-Jun-05	0.12	0.09
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 227	-0.32 U			pCi/g	15-Jun-05	0.43	0.7
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 228	1.41			pCi/g	15-Jun-05	0.3	0.14

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 230	1.5			pCi/g	15-Jun-05	0.3	0.07
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 231	0.048 U			pCi/g	15-Jun-05	0.062	0.081
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 232	1.3			pCi/g	15-Jun-05	0.28	0.05
F5F170373008	Soil	BRC-BKG-06C-4-6	Thorium 234	0.84 U			pCi/g	15-Jun-05	0.67	1.2
F5F170373008	Soil	BRC-BKG-06C-4-6	Uranium 233/234	1.24			pCi/g	15-Jun-05	0.27	0.1
F5F170373008	Soil	BRC-BKG-06C-4-6	Uranium 235	0.048 U			pCi/g	15-Jun-05	0.062	0.081
F5F170373008	Soil	BRC-BKG-06C-4-6	Uranium 238	1.23			pCi/g	15-Jun-05	0.27	0.09
F5F170373008	Soil	BRC-BKG-06C-4-6	Moisture (%)	3.8			percent	15-Jun-05		
F5F170373008	Soil	BRC-BKG-06C-4-6	Aluminum	10300 NE	J	j	mg/kg	15-Jun-05		2
F5F170373008	Soil	BRC-BKG-06C-4-6	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373008	Soil	BRC-BKG-06C-4-6	Arsenic	5.5			mg/kg	15-Jun-05		0.1278
F5F170373008	Soil	BRC-BKG-06C-4-6	Barium	204 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373008	Soil	BRC-BKG-06C-4-6	Beryllium	0.62			mg/kg	15-Jun-05		0.038
F5F170373008	Soil	BRC-BKG-06C-4-6	Boron	5.4	J+	b	mg/kg	15-Jun-05		3.2
F5F170373008	Soil	BRC-BKG-06C-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373008	Soil	BRC-BKG-06C-4-6	Calcium	65900 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373008	Soil	BRC-BKG-06C-4-6	Chromium	9.5			mg/kg	15-Jun-05		0.1841
F5F170373008	Soil	BRC-BKG-06C-4-6	Cobalt	9.7 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373008	Soil	BRC-BKG-06C-4-6	Copper	18.8 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373008	Soil	BRC-BKG-06C-4-6	Iron	16100 N			mg/kg	15-Jun-05		1.173
F5F170373008	Soil	BRC-BKG-06C-4-6	Lead	7.2			mg/kg	15-Jun-05		0.0506
F5F170373008	Soil	BRC-BKG-06C-4-6	Lithium	17.3			mg/kg	15-Jun-05		0.2425
F5F170373008	Soil	BRC-BKG-06C-4-6	Magnesium	12300 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373008	Soil	BRC-BKG-06C-4-6	Manganese	559 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373008	Soil	BRC-BKG-06C-4-6	Mercury	0.012 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373008	Soil	BRC-BKG-06C-4-6	Molybdenum	0.52 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373008	Soil	BRC-BKG-06C-4-6	Nickel	16.3 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373008	Soil	BRC-BKG-06C-4-6	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373008	Soil	BRC-BKG-06C-4-6	Palladium	0.68			mg/kg	15-Jun-05		0.0765
F5F170373008	Soil	BRC-BKG-06C-4-6	Phosphorus	1490			mg/kg	15-Jun-05		1.913
F5F170373008	Soil	BRC-BKG-06C-4-6	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373008	Soil	BRC-BKG-06C-4-6	Potassium	1160 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373008	Soil	BRC-BKG-06C-4-6	Selenium	U			mg/kg	15-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373008	Soil	BRC-BKG-06C-4-6	Silicon	742 N			mg/kg	15-Jun-05		0.5289
F5F170373008	Soil	BRC-BKG-06C-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373008	Soil	BRC-BKG-06C-4-6	Sodium	1070			mg/kg	15-Jun-05		7.567
F5F170373008	Soil	BRC-BKG-06C-4-6	Strontium	320 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373008	Soil	BRC-BKG-06C-4-6	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373008	Soil	BRC-BKG-06C-4-6	Tin	0.44 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373008	Soil	BRC-BKG-06C-4-6	Titanium	590 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373008	Soil	BRC-BKG-06C-4-6	Tungsten	0.88 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373008	Soil	BRC-BKG-06C-4-6	Uranium	1.3			mg/kg	15-Jun-05		0.038
F5F170373008	Soil	BRC-BKG-06C-4-6	Vanadium	47.6 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373008	Soil	BRC-BKG-06C-4-6	Zinc	39.7 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373008	Soil	BRC-BKG-06C-4-6	Zirconium	134 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373009	Soil	BRC-BKG-06C-8-12	Chloride	17.7			mg/kg	15-Jun-05		0.25
F5F170373009	Soil	BRC-BKG-06C-8-12	Fluoride	0.16 B			mg/kg	15-Jun-05		0.051
F5F170373009	Soil	BRC-BKG-06C-8-12	Nitrate	0.13 B			mg/kg	15-Jun-05		0.1
F5F170373009	Soil	BRC-BKG-06C-8-12	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373009	Soil	BRC-BKG-06C-8-12	Sulfate	14.8			mg/kg	15-Jun-05		0.612
F5F170373009	Soil	BRC-BKG-06C-8-12	CEC	16.4			meq/100g	15-Jun-05		
F5F170373009	Soil	BRC-BKG-06C-8-12	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373009	Soil	BRC-BKG-06C-8-12	pH (solid)	9.3			none	15-Jun-05		
F5F170373009	Soil	BRC-BKG-06C-8-12	Actinium 227 [d]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Actinium 228	1.18			pCi/g	15-Jun-05	0.53	0.41
F5F170373009	Soil	BRC-BKG-06C-8-12	Bismuth 210 [e]	0.6 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373009	Soil	BRC-BKG-06C-8-12	Bismuth 211 [f]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Bismuth 212	1.1			pCi/g	15-Jun-05	0.57	0.79
F5F170373009	Soil	BRC-BKG-06C-8-12	Bismuth 214	1.19			pCi/g	15-Jun-05	0.26	0.44
F5F170373009	Soil	BRC-BKG-06C-8-12	Cobalt 57	-0.01 U			pCi/g	15-Jun-05	0.029	0.051
F5F170373009	Soil	BRC-BKG-06C-8-12	Cobalt 60	-0.009 U			pCi/g	15-Jun-05	0.05	0.096
F5F170373009	Soil	BRC-BKG-06C-8-12	Lead 210	0.6 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373009	Soil	BRC-BKG-06C-8-12	Lead 211 [g]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Lead 212	1.2			pCi/g	15-Jun-05	0.19	0.14
F5F170373009	Soil	BRC-BKG-06C-8-12	Lead 214	0.82			pCi/g	15-Jun-05	0.21	0.16
F5F170373009	Soil	BRC-BKG-06C-8-12	Polonium 210 [h]	0.6 U			pCi/g	15-Jun-05	1.2	2.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373009	Soil	BRC-BKG-06C-8-12	Polonium 212 [i]	0.7			pCi/g	15-Jun-05	0.37	0.51
F5F170373009	Soil	BRC-BKG-06C-8-12	Polonium 214 [j]	1.19			pCi/g	15-Jun-05	0.25	0.18
F5F170373009	Soil	BRC-BKG-06C-8-12	Polonium 215 [k]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Polonium 216 [l]	1.2			pCi/g	15-Jun-05	0.19	0.14
HDWME1C4	Soil	BRC-BKG-06C-8-12	Polonium 218 [m]	1.34			pCi/g	15-Jun-05	0.16	0.126
F5F170373009	Soil	BRC-BKG-06C-8-12	Potassium 40	23.4			pCi/g	15-Jun-05	3.5	0.9
F5F170373009	Soil	BRC-BKG-06C-8-12	Protactinium 234	-0.08 U			pCi/g	15-Jun-05	0.15	0.26
F5F170373009	Soil	BRC-BKG-06C-8-12	Radium 223 [n]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Radium 224 [o]	1.2			pCi/g	15-Jun-05	0.19	0.14
HDWME1C4	Soil	BRC-BKG-06C-8-12	Radium 226	1.34			pCi/g	15-Jun-05	0.16	0.126
HDWME1C5	Soil	BRC-BKG-06C-8-12	Radium 228	2.02			pCi/g	15-Jun-05	0.26	0.601
F5F170373009	Soil	BRC-BKG-06C-8-12	Thallium 207 [p]	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Thallium 208	0.48			pCi/g	15-Jun-05	0.13	0.07
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 227	-0.37 U			pCi/g	15-Jun-05	0.46	0.73
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 228	1.5			pCi/g	15-Jun-05	0.35	0.18
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 230	1.61			pCi/g	15-Jun-05	0.35	0.1
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 231	0.107 J			pCi/g	15-Jun-05	0.079	0.058
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 232	1.28			pCi/g	15-Jun-05	0.3	0.09
F5F170373009	Soil	BRC-BKG-06C-8-12	Thorium 234	1.52			pCi/g	15-Jun-05	0.51	1
F5F170373009	Soil	BRC-BKG-06C-8-12	Uranium 233/234	1.21			pCi/g	15-Jun-05	0.27	0.08
F5F170373009	Soil	BRC-BKG-06C-8-12	Uranium 235	0.107 J			pCi/g	15-Jun-05	0.079	0.058
F5F170373009	Soil	BRC-BKG-06C-8-12	Uranium 238	1.59			pCi/g	15-Jun-05	0.32	0.03
F5F170373009	Soil	BRC-BKG-06C-8-12	Moisture (%)	3.5			percent	15-Jun-05		
F5F170373009	Soil	BRC-BKG-06C-8-12	Aluminum	11600 NE	J	j	mg/kg	15-Jun-05		2
F5F170373009	Soil	BRC-BKG-06C-8-12	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373009	Soil	BRC-BKG-06C-8-12	Arsenic	4.4			mg/kg	15-Jun-05		0.1278
F5F170373009	Soil	BRC-BKG-06C-8-12	Barium	169 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373009	Soil	BRC-BKG-06C-8-12	Beryllium	0.62			mg/kg	15-Jun-05		0.038
F5F170373009	Soil	BRC-BKG-06C-8-12	Boron	4 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373009	Soil	BRC-BKG-06C-8-12	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373009	Soil	BRC-BKG-06C-8-12	Calcium	47000 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373009	Soil	BRC-BKG-06C-8-12	Chromium	8.6			mg/kg	15-Jun-05		0.1841
F5F170373009	Soil	BRC-BKG-06C-8-12	Cobalt	10.2 E	J	j	mg/kg	15-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373009	Soil	BRC-BKG-06C-8-12	Copper	19.1 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373009	Soil	BRC-BKG-06C-8-12	Iron	15600 N			mg/kg	15-Jun-05		1.173
F5F170373009	Soil	BRC-BKG-06C-8-12	Lead	5.6			mg/kg	15-Jun-05		0.0506
F5F170373009	Soil	BRC-BKG-06C-8-12	Lithium	19.5			mg/kg	15-Jun-05		0.2425
F5F170373009	Soil	BRC-BKG-06C-8-12	Magnesium	13000 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373009	Soil	BRC-BKG-06C-8-12	Manganese	432 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373009	Soil	BRC-BKG-06C-8-12	Mercury	0.011 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373009	Soil	BRC-BKG-06C-8-12	Molybdenum	0.38 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373009	Soil	BRC-BKG-06C-8-12	Nickel	17.9 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373009	Soil	BRC-BKG-06C-8-12	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373009	Soil	BRC-BKG-06C-8-12	Palladium	0.88			mg/kg	15-Jun-05		0.0765
F5F170373009	Soil	BRC-BKG-06C-8-12	Phosphorus	1640			mg/kg	15-Jun-05		1.913
F5F170373009	Soil	BRC-BKG-06C-8-12	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373009	Soil	BRC-BKG-06C-8-12	Potassium	792 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373009	Soil	BRC-BKG-06C-8-12	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373009	Soil	BRC-BKG-06C-8-12	Silicon	712 N			mg/kg	15-Jun-05		0.5289
F5F170373009	Soil	BRC-BKG-06C-8-12	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373009	Soil	BRC-BKG-06C-8-12	Sodium	852			mg/kg	15-Jun-05		7.567
F5F170373009	Soil	BRC-BKG-06C-8-12	Strontium	394 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373009	Soil	BRC-BKG-06C-8-12	Thallium	U			mg/kg	15-Jun-05		0.5428
F5F170373009	Soil	BRC-BKG-06C-8-12	Tin	0.38 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373009	Soil	BRC-BKG-06C-8-12	Titanium	503 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373009	Soil	BRC-BKG-06C-8-12	Tungsten	0.67 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373009	Soil	BRC-BKG-06C-8-12	Uranium	1.3			mg/kg	15-Jun-05		0.038
F5F170373009	Soil	BRC-BKG-06C-8-12	Vanadium	46.2 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373009	Soil	BRC-BKG-06C-8-12	Zinc	40 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373009	Soil	BRC-BKG-06C-8-12	Zirconium	124 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Chloride	219 J			mg/kg	16-Jun-05		0.25
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Fluoride	0.61 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Nitrate	53.4	J	h	mg/kg	16-Jun-05		0.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Sulfate	570			mg/kg	16-Jun-05		0.612
F5F180132006	Soil	BRC-BKG-07A-0-0.5	CEC	8.9			meq/100g	16-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132006	Soil	BRC-BKG-07A-0-0.5	pH (solid)	8.1	J	h	none	16-Jun-05		
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Actinium 227 [d]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Actinium 228	1.77			pCi/g	16-Jun-05	0.6	0.45
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Bismuth 210 [e]	0.6 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Bismuth 211 [f]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Bismuth 212	1.13 U			pCi/g	16-Jun-05	0.56	1.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Bismuth 214	1.16			pCi/g	16-Jun-05	0.26	0.17
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Cobalt 57	0.029 U			pCi/g	16-Jun-05	0.031	0.055
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Cobalt 60	-0.028 U			pCi/g	16-Jun-05	0.064	0.11
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lead 210	0.6 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lead 211 [g]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lead 212	1.74			pCi/g	16-Jun-05	0.26	0.13
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lead 214	1.09			pCi/g	16-Jun-05	0.23	0.16
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Polonium 210 [h]	0.6 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Polonium 212 [i]	0.73 U			pCi/g	16-Jun-05	0.36	0.73
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Polonium 214 [j]	1.16			pCi/g	16-Jun-05	0.25	0.17
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Polonium 215 [k]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Polonium 216 [l]	1.74			pCi/g	16-Jun-05	0.26	0.13
HDXHA1C4	Soil	BRC-BKG-07A-0-0.5	Polonium 218 [m]	1.27			pCi/g	16-Jun-05	0.15	0.143
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Potassium 40	24.1			pCi/g	16-Jun-05	3.5	5.6
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Protactinium 234	-0.14 U			pCi/g	16-Jun-05	0.15	0.26
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Radium 223 [n]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Radium 224 [o]	1.74			pCi/g	16-Jun-05	0.26	0.13
HDXHA1C4	Soil	BRC-BKG-07A-0-0.5	Radium 226	1.27			pCi/g	16-Jun-05	0.15	0.143
HDXHA1C5	Soil	BRC-BKG-07A-0-0.5	Radium 228	1.41 J	J	k	pCi/g	16-Jun-05	0.2	0.557
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thallium 207 [p]	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thallium 208	0.57			pCi/g	16-Jun-05	0.15	0.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 227	-0.13 U			pCi/g	16-Jun-05	0.45	0.78
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 228	1.83			pCi/g	16-Jun-05	0.39	0.27
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 230	1.36			pCi/g	16-Jun-05	0.29	0.11
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 231	0.059 U			pCi/g	16-Jun-05	0.076	0.099
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 232	1.89			pCi/g	16-Jun-05	0.35	0.09

TABLE C-1
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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thorium 234	1.85			pCi/g	16-Jun-05	0.54	0.87
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Uranium 233/234	1.02	U	b	pCi/g	16-Jun-05	0.25	0.11
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Uranium 235	0.059 U			pCi/g	16-Jun-05	0.076	0.099
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Uranium 238	0.92 J	J	k	pCi/g	16-Jun-05	0.23	0.1
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Moisture (%)	1.4			percent	16-Jun-05		
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Aluminum	13100 NE	J	j	mg/kg	16-Jun-05		2
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Antimony	0.29 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Arsenic	7.2 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Barium	219 N			mg/kg	16-Jun-05		0.152
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Beryllium	0.81			mg/kg	16-Jun-05		0.038
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Boron	11.6	J+	b	mg/kg	16-Jun-05		3.2
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Calcium	43200 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Chromium	15.5			mg/kg	16-Jun-05		0.1841
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Cobalt	9.6			mg/kg	16-Jun-05		0.064
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Copper	20.4			mg/kg	16-Jun-05		0.2205
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Iron	16700 N			mg/kg	16-Jun-05		1.173
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lead	10.1 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Lithium	23.9			mg/kg	16-Jun-05		0.2425
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Magnesium	14400 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Manganese	506 N			mg/kg	16-Jun-05		0.0131
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Mercury	0.0091 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Molybdenum	0.84 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Nickel	20.2			mg/kg	16-Jun-05		0.1295
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Niobium	1.8 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Palladium	0.42			mg/kg	16-Jun-05		0.0765
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Phosphorus	1340 N			mg/kg	16-Jun-05		1.913
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Potassium	3650			mg/kg	16-Jun-05		2.079
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Selenium	0.34 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Silicon	4150 N			mg/kg	16-Jun-05		0.5289
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Sodium	589			mg/kg	16-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Strontium	190			mg/kg	16-Jun-05		0.0735
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Thallium	0.2 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Tin	0.63 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Titanium	481			mg/kg	16-Jun-05		0.1175
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Tungsten	1.9 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Uranium	1.3			mg/kg	16-Jun-05		0.038
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Vanadium	41.9 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Zinc	121			mg/kg	16-Jun-05		0.2207
F5F180132006	Soil	BRC-BKG-07A-0-0.5	Zirconium	118 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132007	Soil	BRC-BKG-07A-4-6	Chloride	1060 J			mg/kg	16-Jun-05		0.25
F5F180132007	Soil	BRC-BKG-07A-4-6	Fluoride	0.55 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132007	Soil	BRC-BKG-07A-4-6	Nitrate	34	J	h	mg/kg	16-Jun-05		0.1
F5F180132007	Soil	BRC-BKG-07A-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132007	Soil	BRC-BKG-07A-4-6	Sulfate	182			mg/kg	16-Jun-05		0.612
F5F180132007	Soil	BRC-BKG-07A-4-6	CEC	14.8			meq/100g	16-Jun-05		
F5F180132007	Soil	BRC-BKG-07A-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132007	Soil	BRC-BKG-07A-4-6	pH (solid)	8.1	J	h	none	16-Jun-05		
F5F180132007	Soil	BRC-BKG-07A-4-6	Actinium 227 [d]	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Actinium 228	1.55			pCi/g	16-Jun-05	0.57	0.32
F5F180132007	Soil	BRC-BKG-07A-4-6	Bismuth 210 [e]	0.6 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132007	Soil	BRC-BKG-07A-4-6	Bismuth 211 [f]	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Bismuth 212	1.21 U			pCi/g	16-Jun-05	0.59	1.2
F5F180132007	Soil	BRC-BKG-07A-4-6	Bismuth 214	1.25			pCi/g	16-Jun-05	0.29	0.17
F5F180132007	Soil	BRC-BKG-07A-4-6	Cobalt 57	0.001 U			pCi/g	16-Jun-05	0.031	0.055
F5F180132007	Soil	BRC-BKG-07A-4-6	Cobalt 60	0.04 U			pCi/g	16-Jun-05	0.055	0.12
F5F180132007	Soil	BRC-BKG-07A-4-6	Lead 210	0.6 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132007	Soil	BRC-BKG-07A-4-6	Lead 211 [g]	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Lead 212	1.22			pCi/g	16-Jun-05	0.22	0.17
F5F180132007	Soil	BRC-BKG-07A-4-6	Lead 214	1.31			pCi/g	16-Jun-05	0.26	0.16
F5F180132007	Soil	BRC-BKG-07A-4-6	Polonium 210 [h]	0.6 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132007	Soil	BRC-BKG-07A-4-6	Polonium 212 [i]	0.78 U			pCi/g	16-Jun-05	0.37	0.79
F5F180132007	Soil	BRC-BKG-07A-4-6	Polonium 214 [j]	1.25			pCi/g	16-Jun-05	0.29	0.17
F5F180132007	Soil	BRC-BKG-07A-4-6	Polonium 215 [k]	0.12 U			pCi/g	16-Jun-05	0.46	0.84

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132007	Soil	BRC-BKG-07A-4-6	Polonium 216 [l]	1.22			pCi/g	16-Jun-05	0.22	0.17
HDXHD1C4	Soil	BRC-BKG-07A-4-6	Polonium 218 [m]	1.38			pCi/g	16-Jun-05	0.16	0.0941
F5F180132007	Soil	BRC-BKG-07A-4-6	Potassium 40	17.8			pCi/g	16-Jun-05	3.1	0.9
F5F180132007	Soil	BRC-BKG-07A-4-6	Protactinium 234	-0.08 U			pCi/g	16-Jun-05	0.16	0.27
F5F180132007	Soil	BRC-BKG-07A-4-6	Radium 223 [n]	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Radium 224 [o]	1.22			pCi/g	16-Jun-05	0.22	0.17
HDXHD1C4	Soil	BRC-BKG-07A-4-6	Radium 226	1.38			pCi/g	16-Jun-05	0.16	0.0941
HDXHD1C5	Soil	BRC-BKG-07A-4-6	Radium 228	1.3 J	J	k	pCi/g	16-Jun-05	0.21	0.624
F5F180132007	Soil	BRC-BKG-07A-4-6	Thallium 207 [p]	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Thallium 208	0.45			pCi/g	16-Jun-05	0.13	0.1
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 227	0.12 U			pCi/g	16-Jun-05	0.46	0.84
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 228	1.34			pCi/g	16-Jun-05	0.36	0.3
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 230	1.73			pCi/g	16-Jun-05	0.34	0.11
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 231	0.093 J	U	b	pCi/g	16-Jun-05	0.08	0.068
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 232	1.22			pCi/g	16-Jun-05	0.27	0.07
F5F180132007	Soil	BRC-BKG-07A-4-6	Thorium 234	0.75 U			pCi/g	16-Jun-05	0.7	1.3
F5F180132007	Soil	BRC-BKG-07A-4-6	Uranium 233/234	1.27			pCi/g	16-Jun-05	0.29	0.08
F5F180132007	Soil	BRC-BKG-07A-4-6	Uranium 235	0.093 J	J	k	pCi/g	16-Jun-05	0.08	0.068
F5F180132007	Soil	BRC-BKG-07A-4-6	Uranium 238	1.66			pCi/g	16-Jun-05	0.33	0.03
F5F180132007	Soil	BRC-BKG-07A-4-6	Moisture (%)	3.7			percent	16-Jun-05		
F5F180132007	Soil	BRC-BKG-07A-4-6	Aluminum	7190 NE	J	j	mg/kg	16-Jun-05		2
F5F180132007	Soil	BRC-BKG-07A-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132007	Soil	BRC-BKG-07A-4-6	Arsenic	5.2 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132007	Soil	BRC-BKG-07A-4-6	Barium	226 N			mg/kg	16-Jun-05		0.152
F5F180132007	Soil	BRC-BKG-07A-4-6	Beryllium	0.48 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132007	Soil	BRC-BKG-07A-4-6	Boron	4.6 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132007	Soil	BRC-BKG-07A-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132007	Soil	BRC-BKG-07A-4-6	Calcium	82800 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132007	Soil	BRC-BKG-07A-4-6	Chromium	6.7			mg/kg	16-Jun-05		0.1841
F5F180132007	Soil	BRC-BKG-07A-4-6	Cobalt	6.4			mg/kg	16-Jun-05		0.064
F5F180132007	Soil	BRC-BKG-07A-4-6	Copper	13.1			mg/kg	16-Jun-05		0.2205
F5F180132007	Soil	BRC-BKG-07A-4-6	Iron	10200 N			mg/kg	16-Jun-05		1.173
F5F180132007	Soil	BRC-BKG-07A-4-6	Lead	5.9 E	J	j	mg/kg	16-Jun-05		0.0506

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132007	Soil	BRC-BKG-07A-4-6	Lithium	13.6			mg/kg	16-Jun-05		0.2425
F5F180132007	Soil	BRC-BKG-07A-4-6	Magnesium	9370 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132007	Soil	BRC-BKG-07A-4-6	Manganese	291 N			mg/kg	16-Jun-05		0.0131
F5F180132007	Soil	BRC-BKG-07A-4-6	Mercury	0.022 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132007	Soil	BRC-BKG-07A-4-6	Molybdenum	0.37 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132007	Soil	BRC-BKG-07A-4-6	Nickel	11			mg/kg	16-Jun-05		0.1295
F5F180132007	Soil	BRC-BKG-07A-4-6	Niobium	1.3 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132007	Soil	BRC-BKG-07A-4-6	Palladium	0.47			mg/kg	16-Jun-05		0.0765
F5F180132007	Soil	BRC-BKG-07A-4-6	Phosphorus	1020 N			mg/kg	16-Jun-05		1.913
F5F180132007	Soil	BRC-BKG-07A-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132007	Soil	BRC-BKG-07A-4-6	Potassium	1120			mg/kg	16-Jun-05		2.079
F5F180132007	Soil	BRC-BKG-07A-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132007	Soil	BRC-BKG-07A-4-6	Silicon	850 N			mg/kg	16-Jun-05		0.5289
F5F180132007	Soil	BRC-BKG-07A-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132007	Soil	BRC-BKG-07A-4-6	Sodium	502			mg/kg	16-Jun-05		7.567
F5F180132007	Soil	BRC-BKG-07A-4-6	Strontium	244			mg/kg	16-Jun-05		0.0735
F5F180132007	Soil	BRC-BKG-07A-4-6	Thallium	U			mg/kg	16-Jun-05		0.5428
F5F180132007	Soil	BRC-BKG-07A-4-6	Tin	0.48 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132007	Soil	BRC-BKG-07A-4-6	Titanium	299			mg/kg	16-Jun-05		0.1175
F5F180132007	Soil	BRC-BKG-07A-4-6	Tungsten	1.4 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132007	Soil	BRC-BKG-07A-4-6	Uranium	1.2			mg/kg	16-Jun-05		0.038
F5F180132007	Soil	BRC-BKG-07A-4-6	Vanadium	32.6 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132007	Soil	BRC-BKG-07A-4-6	Zinc	31.2			mg/kg	16-Jun-05		0.2207
F5F180132007	Soil	BRC-BKG-07A-4-6	Zirconium	108 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132008	Soil	BRC-BKG-07A-9-11	Chloride	73.6 J			mg/kg	16-Jun-05		0.25
F5F180132008	Soil	BRC-BKG-07A-9-11	Fluoride	0.79 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132008	Soil	BRC-BKG-07A-9-11	Nitrate	6.2	J	h	mg/kg	16-Jun-05		0.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132008	Soil	BRC-BKG-07A-9-11	Sulfate	48.5			mg/kg	16-Jun-05		0.612
F5F180132008	Soil	BRC-BKG-07A-9-11	CEC	16			meq/100g	16-Jun-05		
F5F180132008	Soil	BRC-BKG-07A-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132008	Soil	BRC-BKG-07A-9-11	pH (solid)	8.8	J	h	none	16-Jun-05		
F5F180132008	Soil	BRC-BKG-07A-9-11	Actinium 227 [d]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132008	Soil	BRC-BKG-07A-9-11	Actinium 228	1.61			pCi/g	16-Jun-05	0.57	0.34
F5F180132008	Soil	BRC-BKG-07A-9-11	Bismuth 210 [e]	0.8 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Bismuth 211 [f]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Bismuth 212	1.12			pCi/g	16-Jun-05	0.5	1
F5F180132008	Soil	BRC-BKG-07A-9-11	Bismuth 214	1.19			pCi/g	16-Jun-05	0.27	0.17
F5F180132008	Soil	BRC-BKG-07A-9-11	Cobalt 57	0.015 U			pCi/g	16-Jun-05	0.029	0.05
F5F180132008	Soil	BRC-BKG-07A-9-11	Cobalt 60	-0.019 U			pCi/g	16-Jun-05	0.059	0.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Lead 210	0.8 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Lead 211 [g]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Lead 212	1.21			pCi/g	16-Jun-05	0.19	0.14
F5F180132008	Soil	BRC-BKG-07A-9-11	Lead 214	1.2			pCi/g	16-Jun-05	0.23	0.14
F5F180132008	Soil	BRC-BKG-07A-9-11	Polonium 210 [h]	0.8 U			pCi/g	16-Jun-05	1.1	2.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Polonium 212 [i]	0.72			pCi/g	16-Jun-05	0.32	0.65
F5F180132008	Soil	BRC-BKG-07A-9-11	Polonium 214 [j]	1.19			pCi/g	16-Jun-05	0.27	0.17
F5F180132008	Soil	BRC-BKG-07A-9-11	Polonium 215 [k]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Polonium 216 [l]	1.21			pCi/g	16-Jun-05	0.19	0.14
HDXHE1C4	Soil	BRC-BKG-07A-9-11	Polonium 218 [m]	1.79			pCi/g	16-Jun-05	0.2	0.119
F5F180132008	Soil	BRC-BKG-07A-9-11	Potassium 40	24.3			pCi/g	16-Jun-05	3.5	0.8
F5F180132008	Soil	BRC-BKG-07A-9-11	Protactinium 234	0.01 U			pCi/g	16-Jun-05	0.15	0.25
F5F180132008	Soil	BRC-BKG-07A-9-11	Radium 223 [n]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Radium 224 [o]	1.21			pCi/g	16-Jun-05	0.19	0.14
HDXHE1C4	Soil	BRC-BKG-07A-9-11	Radium 226	1.79			pCi/g	16-Jun-05	0.2	0.119
HDXHE1C5	Soil	BRC-BKG-07A-9-11	Radium 228	2.08			pCi/g	16-Jun-05	0.25	0.678
F5F180132008	Soil	BRC-BKG-07A-9-11	Thallium 207 [p]	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Thallium 208	0.4			pCi/g	16-Jun-05	0.11	0.09
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 227	-0.11 U			pCi/g	16-Jun-05	0.42	0.71
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 228	1.16			pCi/g	16-Jun-05	0.26	0.15
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 230	1.81			pCi/g	16-Jun-05	0.32	0.07
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 231	0.126 J	J+	b	pCi/g	16-Jun-05	0.089	0.038
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 232	1.26			pCi/g	16-Jun-05	0.26	0.05
F5F180132008	Soil	BRC-BKG-07A-9-11	Thorium 234	1.19			pCi/g	16-Jun-05	0.62	1.1
F5F180132008	Soil	BRC-BKG-07A-9-11	Uranium 233/234	1.94			pCi/g	16-Jun-05	0.35	0.06
F5F180132008	Soil	BRC-BKG-07A-9-11	Uranium 235	0.126 J	J	k	pCi/g	16-Jun-05	0.089	0.038

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132008	Soil	BRC-BKG-07A-9-11	Uranium 238	1.86			pCi/g	16-Jun-05	0.34	0.03
F5F180132008	Soil	BRC-BKG-07A-9-11	Moisture (%)	3.9			percent	16-Jun-05		
F5F180132008	Soil	BRC-BKG-07A-9-11	Aluminum	9210 NE	J	j	mg/kg	16-Jun-05		2
F5F180132008	Soil	BRC-BKG-07A-9-11	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132008	Soil	BRC-BKG-07A-9-11	Arsenic	4.1 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132008	Soil	BRC-BKG-07A-9-11	Barium	231 N			mg/kg	16-Jun-05		0.152
F5F180132008	Soil	BRC-BKG-07A-9-11	Beryllium	0.52			mg/kg	16-Jun-05		0.038
F5F180132008	Soil	BRC-BKG-07A-9-11	Boron	3.7 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132008	Soil	BRC-BKG-07A-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132008	Soil	BRC-BKG-07A-9-11	Calcium	42500 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132008	Soil	BRC-BKG-07A-9-11	Chromium	9.2			mg/kg	16-Jun-05		0.1841
F5F180132008	Soil	BRC-BKG-07A-9-11	Cobalt	9			mg/kg	16-Jun-05		0.064
F5F180132008	Soil	BRC-BKG-07A-9-11	Copper	13.3			mg/kg	16-Jun-05		0.2205
F5F180132008	Soil	BRC-BKG-07A-9-11	Iron	13500 N			mg/kg	16-Jun-05		1.173
F5F180132008	Soil	BRC-BKG-07A-9-11	Lead	6 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132008	Soil	BRC-BKG-07A-9-11	Lithium	16.5			mg/kg	16-Jun-05		0.2425
F5F180132008	Soil	BRC-BKG-07A-9-11	Magnesium	11000 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132008	Soil	BRC-BKG-07A-9-11	Manganese	452 N			mg/kg	16-Jun-05		0.0131
F5F180132008	Soil	BRC-BKG-07A-9-11	Mercury	0.057			mg/kg	16-Jun-05		0.0072
F5F180132008	Soil	BRC-BKG-07A-9-11	Molybdenum	0.68 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132008	Soil	BRC-BKG-07A-9-11	Nickel	13			mg/kg	16-Jun-05		0.1295
F5F180132008	Soil	BRC-BKG-07A-9-11	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132008	Soil	BRC-BKG-07A-9-11	Palladium	0.58			mg/kg	16-Jun-05		0.0765
F5F180132008	Soil	BRC-BKG-07A-9-11	Phosphorus	1150 N			mg/kg	16-Jun-05		1.913
F5F180132008	Soil	BRC-BKG-07A-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132008	Soil	BRC-BKG-07A-9-11	Potassium	625			mg/kg	16-Jun-05		2.079
F5F180132008	Soil	BRC-BKG-07A-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132008	Soil	BRC-BKG-07A-9-11	Silicon	644 N			mg/kg	16-Jun-05		0.5289
F5F180132008	Soil	BRC-BKG-07A-9-11	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132008	Soil	BRC-BKG-07A-9-11	Sodium	502			mg/kg	16-Jun-05		7.567
F5F180132008	Soil	BRC-BKG-07A-9-11	Strontium	277			mg/kg	16-Jun-05		0.0735
F5F180132008	Soil	BRC-BKG-07A-9-11	Thallium	0.39 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132008	Soil	BRC-BKG-07A-9-11	Tin	0.33 B	J	g	mg/kg	16-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132008	Soil	BRC-BKG-07A-9-11	Titanium	330			mg/kg	16-Jun-05		0.1175
F5F180132008	Soil	BRC-BKG-07A-9-11	Tungsten	1.3 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132008	Soil	BRC-BKG-07A-9-11	Uranium	0.93 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132008	Soil	BRC-BKG-07A-9-11	Vanadium	44.9 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132008	Soil	BRC-BKG-07A-9-11	Zinc	38.2			mg/kg	16-Jun-05		0.2207
F5F180132008	Soil	BRC-BKG-07A-9-11	Zirconium	94.9 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Chloride	1.7 B J			mg/kg	15-Jun-05		0.25
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Nitrate	0.28			mg/kg	15-Jun-05		0.1
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Sulfate	2.9 B			mg/kg	15-Jun-05		0.612
F5F170373020	Soil	BRC-BKG-07B-0-0.5	CEC	6.7			meq/100g	15-Jun-05		
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373020	Soil	BRC-BKG-07B-0-0.5	pH (solid)	8.8			none	15-Jun-05		
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Actinium 227 [d]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Actinium 228	1.42			pCi/g	15-Jun-05	0.57	0.38
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Bismuth 210 [e]	0.8 U			pCi/g	15-Jun-05	1.1	2
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Bismuth 211 [f]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Bismuth 212	0.86			pCi/g	15-Jun-05	0.69	0.73
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Bismuth 214	0.92			pCi/g	15-Jun-05	0.23	0.37
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Cobalt 57	-0.014 U			pCi/g	15-Jun-05	0.029	0.048
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Cobalt 60	0.011 U			pCi/g	15-Jun-05	0.062	0.12
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lead 210	0.8 U			pCi/g	15-Jun-05	1.1	2
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lead 211 [g]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lead 212	1.54			pCi/g	15-Jun-05	0.23	0.12
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lead 214	1.17			pCi/g	15-Jun-05	0.24	0.14
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Polonium 210 [h]	0.8 U			pCi/g	15-Jun-05	1.1	2
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Polonium 212 [i]	0.55			pCi/g	15-Jun-05	0.44	0.47
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Polonium 214 [j]	0.92			pCi/g	15-Jun-05	0.23	0.18
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Polonium 215 [k]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Polonium 216 [l]	1.54			pCi/g	15-Jun-05	0.23	0.12
HDWM71C7	Soil	BRC-BKG-07B-0-0.5	Polonium 218 [m]	0.968 J	J	k	pCi/g	15-Jun-05	0.15	0.186
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Potassium 40	27.9			pCi/g	15-Jun-05	4	1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Protactinium 234	-0.04 U			pCi/g	15-Jun-05	0.14	0.25
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Radium 223 [n]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Radium 224 [o]	1.54			pCi/g	15-Jun-05	0.23	0.12
HDWM71C7	Soil	BRC-BKG-07B-0-0.5	Radium 226	0.968 J	J	k	pCi/g	15-Jun-05	0.15	0.186
HDWM71C8	Soil	BRC-BKG-07B-0-0.5	Radium 228	1.67 J	J	k	pCi/g	15-Jun-05	0.2	0.415
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thallium 207 [p]	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thallium 208	0.58			pCi/g	15-Jun-05	0.14	0.08
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 227	0.03 U			pCi/g	15-Jun-05	0.43	0.76
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 228	1.82			pCi/g	15-Jun-05	0.32	0.12
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 230	1.15			pCi/g	15-Jun-05	0.24	0.06
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 231	0.068 U			pCi/g	15-Jun-05	0.075	0.091
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 232	1.45			pCi/g	15-Jun-05	0.27	0.04
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thorium 234	1.43			pCi/g	15-Jun-05	0.74	1
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Uranium 233/234	0.96 J			pCi/g	15-Jun-05	0.23	0.1
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Uranium 235	0.068 U			pCi/g	15-Jun-05	0.075	0.091
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Uranium 238	0.89 J			pCi/g	15-Jun-05	0.22	0.09
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Moisture (%)	0.94			percent	15-Jun-05		
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Aluminum	12200 NE	J	j	mg/kg	15-Jun-05		2
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Antimony	0.27 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Arsenic	5.2			mg/kg	15-Jun-05		0.1278
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Barium	230 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Beryllium	0.74			mg/kg	15-Jun-05		0.038
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Boron	5.8	J+	b	mg/kg	15-Jun-05		3.2
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Calcium	16600 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Chromium	14.5			mg/kg	15-Jun-05		0.1841
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Cobalt	9.4 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Copper	16.6 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Iron	16900 N			mg/kg	15-Jun-05		1.173
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lead	10.9			mg/kg	15-Jun-05		0.0506
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Lithium	18.6			mg/kg	15-Jun-05		0.2425
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Magnesium	11400 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Manganese	498 NE	J	j	mg/kg	15-Jun-05		0.0131

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Mercury	0.02 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Molybdenum	0.53 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Nickel	16.4 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Palladium	0.25			mg/kg	15-Jun-05		0.0765
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Phosphorus	1340			mg/kg	15-Jun-05		1.913
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Potassium	2760 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Selenium	0.6			mg/kg	15-Jun-05		0.1579
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Silicon	1240 N			mg/kg	15-Jun-05		0.5289
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Sodium	134			mg/kg	15-Jun-05		7.567
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Strontium	105 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Thallium	1.1			mg/kg	15-Jun-05		0.5428
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Tin	0.54 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Titanium	550 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Tungsten	0.49 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Uranium	0.76 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Vanadium	36.1 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Zinc	52.1 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373020	Soil	BRC-BKG-07B-0-0.5	Zirconium	112 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373021	Soil	BRC-BKG-07B-4-6	Chloride	2.5 J			mg/kg	16-Jun-05		0.25
F5F170373021	Soil	BRC-BKG-07B-4-6	Fluoride	0.79 B			mg/kg	16-Jun-05		0.051
F5F170373021	Soil	BRC-BKG-07B-4-6	Nitrate	0.14 B			mg/kg	16-Jun-05		0.1
F5F170373021	Soil	BRC-BKG-07B-4-6	Nitrite	U			mg/kg	16-Jun-05		0.061
F5F170373021	Soil	BRC-BKG-07B-4-6	Sulfate	9			mg/kg	16-Jun-05		0.612
F5F170373021	Soil	BRC-BKG-07B-4-6	CEC	7.4			meq/100g	16-Jun-05		
F5F170373021	Soil	BRC-BKG-07B-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F170373021	Soil	BRC-BKG-07B-4-6	pH (solid)	8.8			none	16-Jun-05		
F5F170373021	Soil	BRC-BKG-07B-4-6	Actinium 227 [d]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Actinium 228	1.76			pCi/g	16-Jun-05	0.59	0.32
F5F170373021	Soil	BRC-BKG-07B-4-6	Bismuth 210 [e]	0.6 U			pCi/g	16-Jun-05	1.2	2.2
F5F170373021	Soil	BRC-BKG-07B-4-6	Bismuth 211 [f]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373021	Soil	BRC-BKG-07B-4-6	Bismuth 212	0.82			pCi/g	16-Jun-05	0.45	0.72
F5F170373021	Soil	BRC-BKG-07B-4-6	Bismuth 214	1.02			pCi/g	16-Jun-05	0.26	0.17
F5F170373021	Soil	BRC-BKG-07B-4-6	Cobalt 57	-0.014 U			pCi/g	16-Jun-05	0.032	0.054
F5F170373021	Soil	BRC-BKG-07B-4-6	Cobalt 60	-0.009 U			pCi/g	16-Jun-05	0.061	0.11
F5F170373021	Soil	BRC-BKG-07B-4-6	Lead 210	0.6 U			pCi/g	16-Jun-05	1.2	2.2
F5F170373021	Soil	BRC-BKG-07B-4-6	Lead 211 [g]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Lead 212	1.52			pCi/g	16-Jun-05	0.25	0.16
F5F170373021	Soil	BRC-BKG-07B-4-6	Lead 214	0.8			pCi/g	16-Jun-05	0.23	0.18
F5F170373021	Soil	BRC-BKG-07B-4-6	Polonium 210 [h]	0.6 U			pCi/g	16-Jun-05	1.2	2.2
F5F170373021	Soil	BRC-BKG-07B-4-6	Polonium 212 [i]	0.52			pCi/g	16-Jun-05	0.29	0.46
F5F170373021	Soil	BRC-BKG-07B-4-6	Polonium 214 [j]	1.02			pCi/g	16-Jun-05	0.25	0.17
F5F170373021	Soil	BRC-BKG-07B-4-6	Polonium 215 [k]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Polonium 216 [l]	1.52			pCi/g	16-Jun-05	0.25	0.16
HDWNE1FJ	Soil	BRC-BKG-07B-4-6	Polonium 218 [m]	0.773 J	J	k	pCi/g	16-Jun-05	0.12	0.128
F5F170373021	Soil	BRC-BKG-07B-4-6	Potassium 40	28.2			pCi/g	16-Jun-05	4.1	0.8
F5F170373021	Soil	BRC-BKG-07B-4-6	Protactinium 234	0.06 U			pCi/g	16-Jun-05	0.17	0.26
F5F170373021	Soil	BRC-BKG-07B-4-6	Radium 223 [n]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Radium 224 [o]	1.52			pCi/g	16-Jun-05	0.25	0.16
HDWNE1FJ	Soil	BRC-BKG-07B-4-6	Radium 226	0.773 J	J	k	pCi/g	16-Jun-05	0.12	0.128
HDWNE1FK	Soil	BRC-BKG-07B-4-6	Radium 228	1.49 J	J	k	pCi/g	16-Jun-05	0.2	0.492
F5F170373021	Soil	BRC-BKG-07B-4-6	Thallium 207 [p]	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Thallium 208	0.57			pCi/g	16-Jun-05	0.14	0.09
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 227	-0.05 U			pCi/g	16-Jun-05	0.38	0.68
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 228	1.61			pCi/g	16-Jun-05	0.33	0.11
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 230	1.49			pCi/g	16-Jun-05	0.31	0.06
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 231	0.047 U			pCi/g	16-Jun-05	0.069	0.095
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 232	1.31			pCi/g	16-Jun-05	0.29	0.07
F5F170373021	Soil	BRC-BKG-07B-4-6	Thorium 234	1.35			pCi/g	16-Jun-05	0.72	1.2
F5F170373021	Soil	BRC-BKG-07B-4-6	Uranium 233/234	1.15			pCi/g	16-Jun-05	0.27	0.12
F5F170373021	Soil	BRC-BKG-07B-4-6	Uranium 235	0.047 U			pCi/g	16-Jun-05	0.069	0.095
F5F170373021	Soil	BRC-BKG-07B-4-6	Uranium 238	1.16			pCi/g	16-Jun-05	0.27	0.09
F5F170373021	Soil	BRC-BKG-07B-4-6	Moisture (%)	2.6			percent	16-Jun-05		
F5F170373021	Soil	BRC-BKG-07B-4-6	Aluminum	8400 NE	J	j	mg/kg	16-Jun-05		2

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373021	Soil	BRC-BKG-07B-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F170373021	Soil	BRC-BKG-07B-4-6	Arsenic	6.1 E	J	j	mg/kg	16-Jun-05		0.1278
F5F170373021	Soil	BRC-BKG-07B-4-6	Barium	311 N			mg/kg	16-Jun-05		0.152
F5F170373021	Soil	BRC-BKG-07B-4-6	Beryllium	0.71			mg/kg	16-Jun-05		0.038
F5F170373021	Soil	BRC-BKG-07B-4-6	Boron	4.6 B	U	b	mg/kg	16-Jun-05		3.2
F5F170373021	Soil	BRC-BKG-07B-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F170373021	Soil	BRC-BKG-07B-4-6	Calcium	30000 NE	J	j	mg/kg	16-Jun-05		1.028
F5F170373021	Soil	BRC-BKG-07B-4-6	Chromium	10.8			mg/kg	16-Jun-05		0.1841
F5F170373021	Soil	BRC-BKG-07B-4-6	Cobalt	8.6			mg/kg	16-Jun-05		0.064
F5F170373021	Soil	BRC-BKG-07B-4-6	Copper	15			mg/kg	16-Jun-05		0.2205
F5F170373021	Soil	BRC-BKG-07B-4-6	Iron	16500 N			mg/kg	16-Jun-05		1.173
F5F170373021	Soil	BRC-BKG-07B-4-6	Lead	10.9 E	J	j	mg/kg	16-Jun-05		0.0506
F5F170373021	Soil	BRC-BKG-07B-4-6	Lithium	15.3			mg/kg	16-Jun-05		0.2425
F5F170373021	Soil	BRC-BKG-07B-4-6	Magnesium	8240 E	J	j	mg/kg	16-Jun-05		1.176
F5F170373021	Soil	BRC-BKG-07B-4-6	Manganese	683 N			mg/kg	16-Jun-05		0.0131
F5F170373021	Soil	BRC-BKG-07B-4-6	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F170373021	Soil	BRC-BKG-07B-4-6	Molybdenum	0.51 B	J	g	mg/kg	16-Jun-05		0.241
F5F170373021	Soil	BRC-BKG-07B-4-6	Nickel	13			mg/kg	16-Jun-05		0.1295
F5F170373021	Soil	BRC-BKG-07B-4-6	Niobium	2 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F170373021	Soil	BRC-BKG-07B-4-6	Palladium	0.32			mg/kg	16-Jun-05		0.0765
F5F170373021	Soil	BRC-BKG-07B-4-6	Phosphorus	1500 N			mg/kg	16-Jun-05		1.913
F5F170373021	Soil	BRC-BKG-07B-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F170373021	Soil	BRC-BKG-07B-4-6	Potassium	1390			mg/kg	16-Jun-05		2.079
F5F170373021	Soil	BRC-BKG-07B-4-6	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F170373021	Soil	BRC-BKG-07B-4-6	Silicon	949 N			mg/kg	16-Jun-05		0.5289
F5F170373021	Soil	BRC-BKG-07B-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F170373021	Soil	BRC-BKG-07B-4-6	Sodium	179			mg/kg	16-Jun-05		7.567
F5F170373021	Soil	BRC-BKG-07B-4-6	Strontium	156			mg/kg	16-Jun-05		0.0735
F5F170373021	Soil	BRC-BKG-07B-4-6	Thallium	0.74 B	U	b	mg/kg	16-Jun-05		0.5428
F5F170373021	Soil	BRC-BKG-07B-4-6	Tin	0.42 B	J	g	mg/kg	16-Jun-05		0.187
F5F170373021	Soil	BRC-BKG-07B-4-6	Titanium	393			mg/kg	16-Jun-05		0.1175
F5F170373021	Soil	BRC-BKG-07B-4-6	Tungsten	2 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F170373021	Soil	BRC-BKG-07B-4-6	Uranium	0.91 B	J	g	mg/kg	16-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373021	Soil	BRC-BKG-07B-4-6	Vanadium	41.1 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F170373021	Soil	BRC-BKG-07B-4-6	Zinc	51.3			mg/kg	16-Jun-05		0.2207
F5F170373021	Soil	BRC-BKG-07B-4-6	Zirconium	132 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F170373022	Soil	BRC-BKG-07B-9-11	Chloride	263 J			mg/kg	15-Jun-05		0.25
F5F170373022	Soil	BRC-BKG-07B-9-11	Fluoride	0.46 B			mg/kg	15-Jun-05		0.051
F5F170373022	Soil	BRC-BKG-07B-9-11	Nitrate	0.99			mg/kg	15-Jun-05		0.1
F5F170373022	Soil	BRC-BKG-07B-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373022	Soil	BRC-BKG-07B-9-11	Sulfate	14.1			mg/kg	15-Jun-05		0.612
F5F170373022	Soil	BRC-BKG-07B-9-11	CEC	18.6			meq/100g	15-Jun-05		
F5F170373022	Soil	BRC-BKG-07B-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373022	Soil	BRC-BKG-07B-9-11	pH (solid)	8.4			none	15-Jun-05		
F5F170373022	Soil	BRC-BKG-07B-9-11	Actinium 227 [d]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Actinium 228	1.24			pCi/g	15-Jun-05	0.6	0.36
F5F170373022	Soil	BRC-BKG-07B-9-11	Bismuth 210 [e]	1.1 U			pCi/g	15-Jun-05	1.1	2
F5F170373022	Soil	BRC-BKG-07B-9-11	Bismuth 211 [f]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Bismuth 212	0.58 U			pCi/g	15-Jun-05	0.59	0.66
F5F170373022	Soil	BRC-BKG-07B-9-11	Bismuth 214	0.96			pCi/g	15-Jun-05	0.22	0.15
F5F170373022	Soil	BRC-BKG-07B-9-11	Cobalt 57	0.005 U			pCi/g	15-Jun-05	0.026	0.045
F5F170373022	Soil	BRC-BKG-07B-9-11	Cobalt 60	-0.042 U			pCi/g	15-Jun-05	0.05	0.08
F5F170373022	Soil	BRC-BKG-07B-9-11	Lead 210	1.1 U			pCi/g	15-Jun-05	1.1	2
F5F170373022	Soil	BRC-BKG-07B-9-11	Lead 211 [g]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Lead 212	1.36			pCi/g	15-Jun-05	0.2	0.11
F5F170373022	Soil	BRC-BKG-07B-9-11	Lead 214	1.16			pCi/g	15-Jun-05	0.23	0.14
F5F170373022	Soil	BRC-BKG-07B-9-11	Polonium 210 [h]	1.1 U			pCi/g	15-Jun-05	1.1	2
F5F170373022	Soil	BRC-BKG-07B-9-11	Polonium 212 [i]	0.37 U			pCi/g	15-Jun-05	0.38	0.42
F5F170373022	Soil	BRC-BKG-07B-9-11	Polonium 214 [j]	0.96			pCi/g	15-Jun-05	0.22	0.15
F5F170373022	Soil	BRC-BKG-07B-9-11	Polonium 215 [k]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Polonium 216 [l]	1.36			pCi/g	15-Jun-05	0.2	0.11
HDWNH1C4	Soil	BRC-BKG-07B-9-11	Polonium 218 [m]	1.7			pCi/g	15-Jun-05	0.22	0.137
F5F170373022	Soil	BRC-BKG-07B-9-11	Potassium 40	21.8			pCi/g	15-Jun-05	3.4	0.8
F5F170373022	Soil	BRC-BKG-07B-9-11	Protactinium 234	-0.07 U			pCi/g	15-Jun-05	0.14	0.24
F5F170373022	Soil	BRC-BKG-07B-9-11	Radium 223 [n]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Radium 224 [o]	1.36			pCi/g	15-Jun-05	0.2	0.11

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDWNH1C4	Soil	BRC-BKG-07B-9-11	Radium 226	1.7			pCi/g	15-Jun-05	0.22	0.137
HDWNH1C5	Soil	BRC-BKG-07B-9-11	Radium 228	1.42 J	J	k	pCi/g	15-Jun-05	0.2	0.492
F5F170373022	Soil	BRC-BKG-07B-9-11	Thallium 207 [p]	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Thallium 208	0.41			pCi/g	15-Jun-05	0.11	0.09
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 227	-0.24 U			pCi/g	15-Jun-05	0.4	0.67
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 228	1.42			pCi/g	15-Jun-05	0.32	0.24
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 230	1.67			pCi/g	15-Jun-05	0.31	0.09
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 231	0.058 U			pCi/g	15-Jun-05	0.084	0.12
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 232	1.34			pCi/g	15-Jun-05	0.27	0.08
F5F170373022	Soil	BRC-BKG-07B-9-11	Thorium 234	2.29			pCi/g	15-Jun-05	0.81	0.99
F5F170373022	Soil	BRC-BKG-07B-9-11	Uranium 233/234	1.9			pCi/g	15-Jun-05	0.4	0.09
F5F170373022	Soil	BRC-BKG-07B-9-11	Uranium 235	0.058 U			pCi/g	15-Jun-05	0.084	0.12
F5F170373022	Soil	BRC-BKG-07B-9-11	Uranium 238	2.01			pCi/g	15-Jun-05	0.41	0.09
F5F170373022	Soil	BRC-BKG-07B-9-11	Moisture (%)	3.8			percent	15-Jun-05		
F5F170373022	Soil	BRC-BKG-07B-9-11	Aluminum	9880 NE	J	j	mg/kg	15-Jun-05		2
F5F170373022	Soil	BRC-BKG-07B-9-11	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373022	Soil	BRC-BKG-07B-9-11	Arsenic	3.3 E	J	j	mg/kg	15-Jun-05		0.1278
F5F170373022	Soil	BRC-BKG-07B-9-11	Barium	340 N			mg/kg	15-Jun-05		0.152
F5F170373022	Soil	BRC-BKG-07B-9-11	Beryllium	0.48 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373022	Soil	BRC-BKG-07B-9-11	Boron	4.4 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373022	Soil	BRC-BKG-07B-9-11	Cadmium	U			mg/kg	15-Jun-05		0.1291
F5F170373022	Soil	BRC-BKG-07B-9-11	Calcium	22800 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373022	Soil	BRC-BKG-07B-9-11	Chromium	8.1			mg/kg	15-Jun-05		0.1841
F5F170373022	Soil	BRC-BKG-07B-9-11	Cobalt	10.2			mg/kg	15-Jun-05		0.064
F5F170373022	Soil	BRC-BKG-07B-9-11	Copper	15.2			mg/kg	15-Jun-05		0.2205
F5F170373022	Soil	BRC-BKG-07B-9-11	Iron	13500 N			mg/kg	15-Jun-05		1.173
F5F170373022	Soil	BRC-BKG-07B-9-11	Lead	6.8 E	J	j	mg/kg	15-Jun-05		0.0506
F5F170373022	Soil	BRC-BKG-07B-9-11	Lithium	15.8			mg/kg	15-Jun-05		0.2425
F5F170373022	Soil	BRC-BKG-07B-9-11	Magnesium	10900 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373022	Soil	BRC-BKG-07B-9-11	Manganese	462 N			mg/kg	15-Jun-05		0.0131
F5F170373022	Soil	BRC-BKG-07B-9-11	Mercury	0.015 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373022	Soil	BRC-BKG-07B-9-11	Molybdenum	0.39 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373022	Soil	BRC-BKG-07B-9-11	Nickel	15.5			mg/kg	15-Jun-05		0.1295

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373022	Soil	BRC-BKG-07B-9-11	Niobium	1.2 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373022	Soil	BRC-BKG-07B-9-11	Palladium	0.86			mg/kg	15-Jun-05		0.0765
F5F170373022	Soil	BRC-BKG-07B-9-11	Phosphorus	1370 N			mg/kg	15-Jun-05		1.913
F5F170373022	Soil	BRC-BKG-07B-9-11	Platinum	0.064 B	J	g	mg/kg	15-Jun-05		0.0435
F5F170373022	Soil	BRC-BKG-07B-9-11	Potassium	769			mg/kg	15-Jun-05		2.079
F5F170373022	Soil	BRC-BKG-07B-9-11	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373022	Soil	BRC-BKG-07B-9-11	Silicon	538 N			mg/kg	15-Jun-05		0.5289
F5F170373022	Soil	BRC-BKG-07B-9-11	Silver	U			mg/kg	15-Jun-05		0.2609
F5F170373022	Soil	BRC-BKG-07B-9-11	Sodium	669			mg/kg	15-Jun-05		7.567
F5F170373022	Soil	BRC-BKG-07B-9-11	Strontium	496			mg/kg	15-Jun-05		0.0735
F5F170373022	Soil	BRC-BKG-07B-9-11	Thallium	0.76 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373022	Soil	BRC-BKG-07B-9-11	Tin	0.36 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373022	Soil	BRC-BKG-07B-9-11	Titanium	312			mg/kg	15-Jun-05		0.1175
F5F170373022	Soil	BRC-BKG-07B-9-11	Tungsten	1.5 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373022	Soil	BRC-BKG-07B-9-11	Uranium	0.93 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373022	Soil	BRC-BKG-07B-9-11	Vanadium	45.1 NE	J	j	mg/kg	15-Jun-05		0.5535
F5F170373022	Soil	BRC-BKG-07B-9-11	Zinc	38.9			mg/kg	15-Jun-05		0.2207
F5F170373022	Soil	BRC-BKG-07B-9-11	Zirconium	103 NE	J-	j, e	mg/kg	15-Jun-05		0.0874
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Chloride	17.6 J			mg/kg	16-Jun-05		0.25
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Fluoride	0.52 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Nitrate	0.47	J	h	mg/kg	16-Jun-05		0.1
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Sulfate	115			mg/kg	16-Jun-05		0.612
F5F180132009	Soil	BRC-BKG-07C-0-0.5	CEC	8.3			meq/100g	16-Jun-05		
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132009	Soil	BRC-BKG-07C-0-0.5	pH (solid)	9	J	h	none	16-Jun-05		
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Actinium 227 [d]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Actinium 228	1.55			pCi/g	16-Jun-05	0.61	0.41
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Bismuth 210 [e]	1.5 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Bismuth 211 [f]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Bismuth 212	0.9 U			pCi/g	16-Jun-05	0.53	1
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Bismuth 214	0.92			pCi/g	16-Jun-05	0.23	0.37
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Cobalt 57	0.013 U			pCi/g	16-Jun-05	0.031	0.054

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Cobalt 60	0.034 U			pCi/g	16-Jun-05	0.074	0.14
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lead 210	1.5 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lead 211 [g]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lead 212	1.74			pCi/g	16-Jun-05	0.26	0.12
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lead 214	0.93			pCi/g	16-Jun-05	0.21	0.15
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Polonium 210 [h]	1.5 U			pCi/g	16-Jun-05	1.2	2.3
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Polonium 212 [i]	0.58 U			pCi/g	16-Jun-05	0.34	0.67
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Polonium 214 [j]	0.92			pCi/g	16-Jun-05	0.23	0.16
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Polonium 215 [k]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Polonium 216 [l]	1.74			pCi/g	16-Jun-05	0.26	0.12
HDXHF1C5	Soil	BRC-BKG-07C-0-0.5	Polonium 218 [m]	1.22	J	n	pCi/g	16-Jun-05	0.17	0.156
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Potassium 40	27.7			pCi/g	16-Jun-05	4	1
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Protactinium 234	-0.16 U			pCi/g	16-Jun-05	0.16	0.26
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Radium 223 [n]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Radium 224 [o]	1.74			pCi/g	16-Jun-05	0.26	0.12
HDXHF1C5	Soil	BRC-BKG-07C-0-0.5	Radium 226	1.22	J	n	pCi/g	16-Jun-05	0.17	0.156
HDXHF1C6	Soil	BRC-BKG-07C-0-0.5	Radium 228	2.66			pCi/g	16-Jun-05	0.26	0.593
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thallium 207 [p]	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thallium 208	0.69			pCi/g	16-Jun-05	0.15	0.09
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 227	-0.18 U			pCi/g	16-Jun-05	0.42	0.72
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 228	1.88			pCi/g	16-Jun-05	0.38	0.18
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 230	1.24			pCi/g	16-Jun-05	0.29	0.11
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 231	0.066 U			pCi/g	16-Jun-05	0.066	0.07
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 232	1.97			pCi/g	16-Jun-05	0.37	0.09
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thorium 234	1.31			pCi/g	16-Jun-05	0.48	1
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Uranium 233/234	1.02	U	b	pCi/g	16-Jun-05	0.24	0.03
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Uranium 235	0.066 U			pCi/g	16-Jun-05	0.066	0.07
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Uranium 238	1.17			pCi/g	16-Jun-05	0.26	0.03
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Moisture (%)	1			percent	16-Jun-05		
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Aluminum	11200 NE	J	j	mg/kg	16-Jun-05		2
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Antimony	0.36 BN	J-	e, g	mg/kg	16-Jun-05		0.3298
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Arsenic	6.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Barium	215 N			mg/kg	16-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Beryllium	0.82			mg/kg	16-Jun-05		0.038
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Boron	7.8	J+	b	mg/kg	16-Jun-05		3.2
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Calcium	26500 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Chromium	16.7			mg/kg	16-Jun-05		0.1841
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Cobalt	8.4			mg/kg	16-Jun-05		0.064
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Copper	17.2			mg/kg	16-Jun-05		0.2205
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Iron	17400 N			mg/kg	16-Jun-05		1.173
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lead	12.2 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Lithium	22.2			mg/kg	16-Jun-05		0.2425
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Magnesium	11600 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Manganese	469 N			mg/kg	16-Jun-05		0.0131
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Mercury	0.014 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Molybdenum	0.79 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Nickel	17.1			mg/kg	16-Jun-05		0.1295
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Palladium	0.24			mg/kg	16-Jun-05		0.0765
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Phosphorus	1280 N			mg/kg	16-Jun-05		1.913
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Potassium	2720			mg/kg	16-Jun-05		2.079
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Selenium	0.31 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Silicon	1030 N			mg/kg	16-Jun-05		0.5289
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Sodium	693			mg/kg	16-Jun-05		7.567
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Strontium	129			mg/kg	16-Jun-05		0.0735
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Thallium	0.74 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Tin	0.54 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Titanium	467			mg/kg	16-Jun-05		0.1175
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Tungsten	1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Uranium	0.85 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Vanadium	36.7 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Zinc	55.2			mg/kg	16-Jun-05		0.2207
F5F180132009	Soil	BRC-BKG-07C-0-0.5	Zirconium	120 NE	J-	j, e	mg/kg	16-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132010	Soil	BRC-BKG-07C-4-6	Chloride	772 J			mg/kg	16-Jun-05		0.25
F5F180132010	Soil	BRC-BKG-07C-4-6	Fluoride	0.77 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132010	Soil	BRC-BKG-07C-4-6	Nitrate	4.7	J	h	mg/kg	16-Jun-05		0.1
F5F180132010	Soil	BRC-BKG-07C-4-6	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132010	Soil	BRC-BKG-07C-4-6	Sulfate	164			mg/kg	16-Jun-05		0.612
F5F180132010	Soil	BRC-BKG-07C-4-6	CEC	17			meq/100g	16-Jun-05		
F5F180132010	Soil	BRC-BKG-07C-4-6	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132010	Soil	BRC-BKG-07C-4-6	pH (solid)	8	J	h	none	16-Jun-05		
F5F180132010	Soil	BRC-BKG-07C-4-6	Actinium 227 [d]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Actinium 228	1.68			pCi/g	16-Jun-05	0.62	0.36
F5F180132010	Soil	BRC-BKG-07C-4-6	Bismuth 210 [e]	0.2 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132010	Soil	BRC-BKG-07C-4-6	Bismuth 211 [f]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Bismuth 212	0.9 U			pCi/g	16-Jun-05	0.52	1.1
F5F180132010	Soil	BRC-BKG-07C-4-6	Bismuth 214	1.48			pCi/g	16-Jun-05	0.29	0.19
F5F180132010	Soil	BRC-BKG-07C-4-6	Cobalt 57	-0.004 U			pCi/g	16-Jun-05	0.034	0.06
F5F180132010	Soil	BRC-BKG-07C-4-6	Cobalt 60	-0.003 U			pCi/g	16-Jun-05	0.062	0.12
F5F180132010	Soil	BRC-BKG-07C-4-6	Lead 210	0.2 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132010	Soil	BRC-BKG-07C-4-6	Lead 211 [g]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Lead 212	1.3			pCi/g	16-Jun-05	0.21	0.15
F5F180132010	Soil	BRC-BKG-07C-4-6	Lead 214	1.72			pCi/g	16-Jun-05	0.3	0.17
F5F180132010	Soil	BRC-BKG-07C-4-6	Polonium 210 [h]	0.2 U			pCi/g	16-Jun-05	1.2	2.2
F5F180132010	Soil	BRC-BKG-07C-4-6	Polonium 212 [i]	0.58 U			pCi/g	16-Jun-05	0.34	0.69
F5F180132010	Soil	BRC-BKG-07C-4-6	Polonium 214 [j]	1.48			pCi/g	16-Jun-05	0.28	0.19
F5F180132010	Soil	BRC-BKG-07C-4-6	Polonium 215 [k]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Polonium 216 [l]	1.3			pCi/g	16-Jun-05	0.21	0.15
HDXHH1C4	Soil	BRC-BKG-07C-4-6	Polonium 218 [m]	1.82	J	n	pCi/g	16-Jun-05	0.22	0.145
F5F180132010	Soil	BRC-BKG-07C-4-6	Potassium 40	24.1			pCi/g	16-Jun-05	3.7	1
F5F180132010	Soil	BRC-BKG-07C-4-6	Protactinium 234	-0.11 U			pCi/g	16-Jun-05	0.16	0.27
F5F180132010	Soil	BRC-BKG-07C-4-6	Radium 223 [n]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Radium 224 [o]	1.3			pCi/g	16-Jun-05	0.21	0.15
HDXHH1C4	Soil	BRC-BKG-07C-4-6	Radium 226	1.82	J	n	pCi/g	16-Jun-05	0.22	0.145
HDXHH1C5	Soil	BRC-BKG-07C-4-6	Radium 228	2.21			pCi/g	16-Jun-05	0.24	0.606
F5F180132010	Soil	BRC-BKG-07C-4-6	Thallium 207 [p]	-0.11 U			pCi/g	16-Jun-05	0.47	0.8

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132010	Soil	BRC-BKG-07C-4-6	Thallium 208	0.48			pCi/g	16-Jun-05	0.12	0.1
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 227	-0.11 U			pCi/g	16-Jun-05	0.47	0.8
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 228	1.5			pCi/g	16-Jun-05	0.37	0.21
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 230	2.44			pCi/g	16-Jun-05	0.46	0.08
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 231	0.089 J	U	b	pCi/g	16-Jun-05	0.073	0.066
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 232	1.26			pCi/g	16-Jun-05	0.31	0.1
F5F180132010	Soil	BRC-BKG-07C-4-6	Thorium 234	1.73			pCi/g	16-Jun-05	0.58	1
F5F180132010	Soil	BRC-BKG-07C-4-6	Uranium 233/234	1.99			pCi/g	16-Jun-05	0.34	0.05
F5F180132010	Soil	BRC-BKG-07C-4-6	Uranium 235	0.089 J	J	k	pCi/g	16-Jun-05	0.073	0.066
F5F180132010	Soil	BRC-BKG-07C-4-6	Uranium 238	1.95			pCi/g	16-Jun-05	0.34	0.06
F5F180132010	Soil	BRC-BKG-07C-4-6	Moisture (%)	3.7			percent	16-Jun-05		
F5F180132010	Soil	BRC-BKG-07C-4-6	Aluminum	7890 NE	J	j	mg/kg	16-Jun-05		2
F5F180132010	Soil	BRC-BKG-07C-4-6	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132010	Soil	BRC-BKG-07C-4-6	Arsenic	5.6 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132010	Soil	BRC-BKG-07C-4-6	Barium	277 N			mg/kg	16-Jun-05		0.152
F5F180132010	Soil	BRC-BKG-07C-4-6	Beryllium	0.59			mg/kg	16-Jun-05		0.038
F5F180132010	Soil	BRC-BKG-07C-4-6	Boron	4.8 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132010	Soil	BRC-BKG-07C-4-6	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132010	Soil	BRC-BKG-07C-4-6	Calcium	71900 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132010	Soil	BRC-BKG-07C-4-6	Chromium	9.8			mg/kg	16-Jun-05		0.1841
F5F180132010	Soil	BRC-BKG-07C-4-6	Cobalt	7.1			mg/kg	16-Jun-05		0.064
F5F180132010	Soil	BRC-BKG-07C-4-6	Copper	13.6			mg/kg	16-Jun-05		0.2205
F5F180132010	Soil	BRC-BKG-07C-4-6	Iron	13100 N			mg/kg	16-Jun-05		1.173
F5F180132010	Soil	BRC-BKG-07C-4-6	Lead	7.3 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132010	Soil	BRC-BKG-07C-4-6	Lithium	18.8			mg/kg	16-Jun-05		0.2425
F5F180132010	Soil	BRC-BKG-07C-4-6	Magnesium	10600 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132010	Soil	BRC-BKG-07C-4-6	Manganese	366 N			mg/kg	16-Jun-05		0.0131
F5F180132010	Soil	BRC-BKG-07C-4-6	Mercury	0.013 B	J	g	mg/kg	16-Jun-05		0.0072
F5F180132010	Soil	BRC-BKG-07C-4-6	Molybdenum	0.42 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132010	Soil	BRC-BKG-07C-4-6	Nickel	12.1			mg/kg	16-Jun-05		0.1295
F5F180132010	Soil	BRC-BKG-07C-4-6	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132010	Soil	BRC-BKG-07C-4-6	Palladium	0.5			mg/kg	16-Jun-05		0.0765
F5F180132010	Soil	BRC-BKG-07C-4-6	Phosphorus	1300 N			mg/kg	16-Jun-05		1.913

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132010	Soil	BRC-BKG-07C-4-6	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132010	Soil	BRC-BKG-07C-4-6	Potassium	1080			mg/kg	16-Jun-05		2.079
F5F180132010	Soil	BRC-BKG-07C-4-6	Selenium	0.31 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132010	Soil	BRC-BKG-07C-4-6	Silicon	1360 N			mg/kg	16-Jun-05		0.5289
F5F180132010	Soil	BRC-BKG-07C-4-6	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132010	Soil	BRC-BKG-07C-4-6	Sodium	720			mg/kg	16-Jun-05		7.567
F5F180132010	Soil	BRC-BKG-07C-4-6	Strontium	253			mg/kg	16-Jun-05		0.0735
F5F180132010	Soil	BRC-BKG-07C-4-6	Thallium	U			mg/kg	16-Jun-05		0.5428
F5F180132010	Soil	BRC-BKG-07C-4-6	Tin	0.43 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132010	Soil	BRC-BKG-07C-4-6	Titanium	366			mg/kg	16-Jun-05		0.1175
F5F180132010	Soil	BRC-BKG-07C-4-6	Tungsten	0.99 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132010	Soil	BRC-BKG-07C-4-6	Uranium	1.1			mg/kg	16-Jun-05		0.038
F5F180132010	Soil	BRC-BKG-07C-4-6	Vanadium	33.8 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132010	Soil	BRC-BKG-07C-4-6	Zinc	39.1			mg/kg	16-Jun-05		0.2207
F5F180132010	Soil	BRC-BKG-07C-4-6	Zirconium	113 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F180132011	Soil	BRC-BKG-07C-9-11	Chloride	141			mg/kg	16-Jun-05		0.25
F5F180132011	Soil	BRC-BKG-07C-9-11	Fluoride	0.75 B	U	b	mg/kg	16-Jun-05		0.051
F5F180132011	Soil	BRC-BKG-07C-9-11	Nitrate	1.5	J	h	mg/kg	16-Jun-05		0.1
F5F180132011	Soil	BRC-BKG-07C-9-11	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132011	Soil	BRC-BKG-07C-9-11	Sulfate	27.3			mg/kg	16-Jun-05		0.612
F5F180132011	Soil	BRC-BKG-07C-9-11	CEC	18.9			meq/100g	16-Jun-05		
F5F180132011	Soil	BRC-BKG-07C-9-11	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132011	Soil	BRC-BKG-07C-9-11	pH (solid)	8.7	J	h	none	16-Jun-05		
F5F180132011	Soil	BRC-BKG-07C-9-11	Actinium 227 [d]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Actinium 228	1.39			pCi/g	16-Jun-05	0.54	0.39
F5F180132011	Soil	BRC-BKG-07C-9-11	Bismuth 210 [e]	0.8 U			pCi/g	16-Jun-05	1	1.9
F5F180132011	Soil	BRC-BKG-07C-9-11	Bismuth 211 [f]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Bismuth 212	1.28			pCi/g	16-Jun-05	0.47	1
F5F180132011	Soil	BRC-BKG-07C-9-11	Bismuth 214	1.14			pCi/g	16-Jun-05	0.25	0.42
F5F180132011	Soil	BRC-BKG-07C-9-11	Cobalt 57	-0.002 U			pCi/g	16-Jun-05	0.028	0.048
F5F180132011	Soil	BRC-BKG-07C-9-11	Cobalt 60	0.044 U			pCi/g	16-Jun-05	0.046	0.1
F5F180132011	Soil	BRC-BKG-07C-9-11	Lead 210	0.8 U			pCi/g	16-Jun-05	1	1.9
F5F180132011	Soil	BRC-BKG-07C-9-11	Lead 211 [g]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132011	Soil	BRC-BKG-07C-9-11	Lead 212	1.4			pCi/g	16-Jun-05	0.22	0.13
F5F180132011	Soil	BRC-BKG-07C-9-11	Lead 214	1.24			pCi/g	16-Jun-05	0.26	0.16
F5F180132011	Soil	BRC-BKG-07C-9-11	Polonium 210 [h]	0.8 U			pCi/g	16-Jun-05	1	1.9
F5F180132011	Soil	BRC-BKG-07C-9-11	Polonium 212 [i]	0.82			pCi/g	16-Jun-05	0.3	0.65
F5F180132011	Soil	BRC-BKG-07C-9-11	Polonium 214 [j]	1.14			pCi/g	16-Jun-05	0.25	0.16
F5F180132011	Soil	BRC-BKG-07C-9-11	Polonium 215 [k]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Polonium 216 [l]	1.4			pCi/g	16-Jun-05	0.22	0.13
HDXHJ1C4	Soil	BRC-BKG-07C-9-11	Polonium 218 [m]	1.91	J	n	pCi/g	16-Jun-05	0.23	0.0924
F5F180132011	Soil	BRC-BKG-07C-9-11	Potassium 40	21.8			pCi/g	16-Jun-05	3.2	5.1
F5F180132011	Soil	BRC-BKG-07C-9-11	Protactinium 234	0.12 U			pCi/g	16-Jun-05	0.16	0.25
F5F180132011	Soil	BRC-BKG-07C-9-11	Radium 223 [n]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Radium 224 [o]	1.4			pCi/g	16-Jun-05	0.22	0.13
HDXHJ1C4	Soil	BRC-BKG-07C-9-11	Radium 226	1.91	J	n	pCi/g	16-Jun-05	0.23	0.0924
HDXHJ1C5	Soil	BRC-BKG-07C-9-11	Radium 228	1.34 J	J	k	pCi/g	16-Jun-05	0.2	0.62
F5F180132011	Soil	BRC-BKG-07C-9-11	Thallium 207 [p]	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Thallium 208	0.53			pCi/g	16-Jun-05	0.12	0.08
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 227	-0.12 U			pCi/g	16-Jun-05	0.4	0.69
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 228	1.22			pCi/g	16-Jun-05	0.33	0.19
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 230	2.15			pCi/g	16-Jun-05	0.43	0.11
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 231	0.21 J	J+	b	pCi/g	16-Jun-05	0.11	0.03
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 232	1.23			pCi/g	16-Jun-05	0.31	0.08
F5F180132011	Soil	BRC-BKG-07C-9-11	Thorium 234	1.85			pCi/g	16-Jun-05	0.7	1.2
F5F180132011	Soil	BRC-BKG-07C-9-11	Uranium 233/234	2.06			pCi/g	16-Jun-05	0.34	0.04
F5F180132011	Soil	BRC-BKG-07C-9-11	Uranium 235	0.21 J	J	k	pCi/g	16-Jun-05	0.11	0.03
F5F180132011	Soil	BRC-BKG-07C-9-11	Uranium 238	2.37			pCi/g	16-Jun-05	0.37	0.03
F5F180132011	Soil	BRC-BKG-07C-9-11	Moisture (%)	3.2			percent	16-Jun-05		
F5F180132011	Soil	BRC-BKG-07C-9-11	Aluminum	10300 NE	J	j	mg/kg	16-Jun-05		2
F5F180132011	Soil	BRC-BKG-07C-9-11	Antimony	N U	UJ-	e	mg/kg	16-Jun-05		0.3298
F5F180132011	Soil	BRC-BKG-07C-9-11	Arsenic	5.4 E	J	j	mg/kg	16-Jun-05		0.1278
F5F180132011	Soil	BRC-BKG-07C-9-11	Barium	309 N			mg/kg	16-Jun-05		0.152
F5F180132011	Soil	BRC-BKG-07C-9-11	Beryllium	0.58			mg/kg	16-Jun-05		0.038
F5F180132011	Soil	BRC-BKG-07C-9-11	Boron	3.9 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132011	Soil	BRC-BKG-07C-9-11	Cadmium	U			mg/kg	16-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132011	Soil	BRC-BKG-07C-9-11	Calcium	44600 NE	J	j	mg/kg	16-Jun-05		1.028
F5F180132011	Soil	BRC-BKG-07C-9-11	Chromium	9			mg/kg	16-Jun-05		0.1841
F5F180132011	Soil	BRC-BKG-07C-9-11	Cobalt	10.2			mg/kg	16-Jun-05		0.064
F5F180132011	Soil	BRC-BKG-07C-9-11	Copper	17			mg/kg	16-Jun-05		0.2205
F5F180132011	Soil	BRC-BKG-07C-9-11	Iron	14900 N			mg/kg	16-Jun-05		1.173
F5F180132011	Soil	BRC-BKG-07C-9-11	Lead	6.3 E	J	j	mg/kg	16-Jun-05		0.0506
F5F180132011	Soil	BRC-BKG-07C-9-11	Lithium	26.2			mg/kg	16-Jun-05		0.2425
F5F180132011	Soil	BRC-BKG-07C-9-11	Magnesium	13500 E	J	j	mg/kg	16-Jun-05		1.176
F5F180132011	Soil	BRC-BKG-07C-9-11	Manganese	529 N			mg/kg	16-Jun-05		0.0131
F5F180132011	Soil	BRC-BKG-07C-9-11	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132011	Soil	BRC-BKG-07C-9-11	Molybdenum	0.47 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132011	Soil	BRC-BKG-07C-9-11	Nickel	14.1			mg/kg	16-Jun-05		0.1295
F5F180132011	Soil	BRC-BKG-07C-9-11	Niobium	N U	UJ-	e	mg/kg	16-Jun-05		1.015
F5F180132011	Soil	BRC-BKG-07C-9-11	Palladium	0.91			mg/kg	16-Jun-05		0.0765
F5F180132011	Soil	BRC-BKG-07C-9-11	Phosphorus	1320 N			mg/kg	16-Jun-05		1.913
F5F180132011	Soil	BRC-BKG-07C-9-11	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132011	Soil	BRC-BKG-07C-9-11	Potassium	649			mg/kg	16-Jun-05		2.079
F5F180132011	Soil	BRC-BKG-07C-9-11	Selenium	U			mg/kg	16-Jun-05		0.1579
F5F180132011	Soil	BRC-BKG-07C-9-11	Silicon	854 N			mg/kg	16-Jun-05		0.5289
F5F180132011	Soil	BRC-BKG-07C-9-11	Silver	U			mg/kg	16-Jun-05		0.2609
F5F180132011	Soil	BRC-BKG-07C-9-11	Sodium	662			mg/kg	16-Jun-05		7.567
F5F180132011	Soil	BRC-BKG-07C-9-11	Strontium	510			mg/kg	16-Jun-05		0.0735
F5F180132011	Soil	BRC-BKG-07C-9-11	Thallium	U			mg/kg	16-Jun-05		0.5428
F5F180132011	Soil	BRC-BKG-07C-9-11	Tin	0.39 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132011	Soil	BRC-BKG-07C-9-11	Titanium	386			mg/kg	16-Jun-05		0.1175
F5F180132011	Soil	BRC-BKG-07C-9-11	Tungsten	1.1 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132011	Soil	BRC-BKG-07C-9-11	Uranium	1.2			mg/kg	16-Jun-05		0.038
F5F180132011	Soil	BRC-BKG-07C-9-11	Vanadium	51.8 NE	J	j	mg/kg	16-Jun-05		0.5535
F5F180132011	Soil	BRC-BKG-07C-9-11	Zinc	40.3			mg/kg	16-Jun-05		0.2207
F5F180132011	Soil	BRC-BKG-07C-9-11	Zirconium	107 NE	J-	j, e	mg/kg	16-Jun-05		0.0874
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Chloride	7			mg/kg	15-Jun-05		0.25
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Nitrate	1.5			mg/kg	15-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Sulfate	4.5 B			mg/kg	15-Jun-05		0.612
F5F170373011	Soil	BRC-BKG-08A-0-0.5	CEC	13			meq/100g	15-Jun-05		
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373011	Soil	BRC-BKG-08A-0-0.5	pH (solid)	9			none	15-Jun-05		
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Actinium 227 [d]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Actinium 228	2.05			pCi/g	15-Jun-05	0.73	0.31
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Bismuth 211 [f]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Bismuth 212	1.04			pCi/g	15-Jun-05	0.74	0.79
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Bismuth 214	0.96			pCi/g	15-Jun-05	0.24	0.44
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Cobalt 57	0.022 U			pCi/g	15-Jun-05	0.034	0.062
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Cobalt 60	0.008 U			pCi/g	15-Jun-05	0.06	0.12
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lead 210	0.4 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lead 211 [g]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lead 212	1.69			pCi/g	15-Jun-05	0.3	0.18
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lead 214	0.93			pCi/g	15-Jun-05	0.24	0.19
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Polonium 210 [h]	0.4 U			pCi/g	15-Jun-05	1.3	2.3
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Polonium 212 [i]	0.67			pCi/g	15-Jun-05	0.47	0.51
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Polonium 214 [j]	0.96			pCi/g	15-Jun-05	0.24	0.17
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Polonium 215 [k]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Polonium 216 [l]	1.69			pCi/g	15-Jun-05	0.3	0.18
HDWMK1C4	Soil	BRC-BKG-08A-0-0.5	Polonium 218 [m]	0.89 J	J	k	pCi/g	15-Jun-05	0.11	0.0838
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Potassium 40	27			pCi/g	15-Jun-05	4	0.7
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Protactinium 234	-0.34 U			pCi/g	15-Jun-05	0.18	0.26
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Radium 223 [n]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Radium 224 [o]	1.69			pCi/g	15-Jun-05	0.3	0.18
HDWMK1C4	Soil	BRC-BKG-08A-0-0.5	Radium 226	0.89 J	J	k	pCi/g	15-Jun-05	0.11	0.0838
HDWMK1C5	Soil	BRC-BKG-08A-0-0.5	Radium 228	2.1			pCi/g	15-Jun-05	0.24	0.522
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thallium 207 [p]	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thallium 208	0.61			pCi/g	15-Jun-05	0.15	0.1
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 227	0.13 U			pCi/g	15-Jun-05	0.44	0.8
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 228	1.85			pCi/g	15-Jun-05	0.33	0.03

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 230	1.16			pCi/g	15-Jun-05	0.25	0.05
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 231	0.054 J			pCi/g	15-Jun-05	0.053	0.029
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 232	1.82			pCi/g	15-Jun-05	0.32	0.05
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thorium 234	1.43			pCi/g	15-Jun-05	0.77	1.3
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Uranium 233/234	0.85 J			pCi/g	15-Jun-05	0.2	0.05
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Uranium 235	0.054 J			pCi/g	15-Jun-05	0.053	0.029
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Uranium 238	0.86 J			pCi/g	15-Jun-05	0.2	0.05
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Moisture (%)	0.88			percent	15-Jun-05		
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Aluminum	8080 NE	J	j	mg/kg	15-Jun-05		2
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Antimony	0.18 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Arsenic	3.6			mg/kg	15-Jun-05		0.1278
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Barium	119 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Beryllium	0.66			mg/kg	15-Jun-05		0.038
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Calcium	15800 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Chromium	12			mg/kg	15-Jun-05		0.1841
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Cobalt	10.4 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Copper	21 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Iron	15200 N			mg/kg	15-Jun-05		1.173
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lead	9.3			mg/kg	15-Jun-05		0.0506
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Lithium	11.8			mg/kg	15-Jun-05		0.2425
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Magnesium	10200 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Manganese	414 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Mercury	0.022 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Molybdenum	0.48 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Nickel	20.6 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Palladium	0.26			mg/kg	15-Jun-05		0.0765
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Phosphorus	1830			mg/kg	15-Jun-05		1.913
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Potassium	1890 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Selenium	0.32 B	J	g	mg/kg	15-Jun-05		0.1579

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Silicon	634 N			mg/kg	15-Jun-05		0.5289
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Sodium	214			mg/kg	15-Jun-05		7.567
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Strontium	126 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Thallium	0.54 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Tin	0.63 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Titanium	683 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Tungsten	0.62 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Uranium	1 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Vanadium	46.8 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Zinc	41.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373011	Soil	BRC-BKG-08A-0-0.5	Zirconium	141 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373012	Soil	BRC-BKG-08A-4-6	Chloride	1.3 B			mg/kg	15-Jun-05		0.25
F5F170373012	Soil	BRC-BKG-08A-4-6	Fluoride	0.36 B			mg/kg	15-Jun-05		0.051
F5F170373012	Soil	BRC-BKG-08A-4-6	Nitrate	0.21			mg/kg	15-Jun-05		0.1
F5F170373012	Soil	BRC-BKG-08A-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373012	Soil	BRC-BKG-08A-4-6	Sulfate	5 B			mg/kg	15-Jun-05		0.612
F5F170373012	Soil	BRC-BKG-08A-4-6	CEC	12.4			meq/100g	15-Jun-05		
F5F170373012	Soil	BRC-BKG-08A-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373012	Soil	BRC-BKG-08A-4-6	pH (solid)	9.3			none	15-Jun-05		
F5F170373012	Soil	BRC-BKG-08A-4-6	Actinium 227 [d]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Actinium 228	2.56			pCi/g	15-Jun-05	0.77	0.34
F5F170373012	Soil	BRC-BKG-08A-4-6	Bismuth 210 [e]	0.2 U			pCi/g	15-Jun-05	1.1	1.9
F5F170373012	Soil	BRC-BKG-08A-4-6	Bismuth 211 [f]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Bismuth 212	0.99			pCi/g	15-Jun-05	0.61	0.68
F5F170373012	Soil	BRC-BKG-08A-4-6	Bismuth 214	0.94			pCi/g	15-Jun-05	0.22	0.17
F5F170373012	Soil	BRC-BKG-08A-4-6	Cobalt 57	-0.029 U			pCi/g	15-Jun-05	0.03	0.048
F5F170373012	Soil	BRC-BKG-08A-4-6	Cobalt 60	0.013 U			pCi/g	15-Jun-05	0.056	0.11
F5F170373012	Soil	BRC-BKG-08A-4-6	Lead 210	0.2 U			pCi/g	15-Jun-05	1.1	1.9
F5F170373012	Soil	BRC-BKG-08A-4-6	Lead 211 [g]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Lead 212	1.45			pCi/g	15-Jun-05	0.25	0.2
F5F170373012	Soil	BRC-BKG-08A-4-6	Lead 214	0.95			pCi/g	15-Jun-05	0.22	0.15
F5F170373012	Soil	BRC-BKG-08A-4-6	Polonium 210 [h]	0.2 U			pCi/g	15-Jun-05	1.1	1.9

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373012	Soil	BRC-BKG-08A-4-6	Polonium 212 [i]	0.64			pCi/g	15-Jun-05	0.39	0.43
F5F170373012	Soil	BRC-BKG-08A-4-6	Polonium 214 [j]	0.94			pCi/g	15-Jun-05	0.22	0.17
F5F170373012	Soil	BRC-BKG-08A-4-6	Polonium 215 [k]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Polonium 216 [l]	1.45			pCi/g	15-Jun-05	0.25	0.2
HDWML1C4	Soil	BRC-BKG-08A-4-6	Polonium 218 [m]	1.2			pCi/g	15-Jun-05	0.15	0.106
F5F170373012	Soil	BRC-BKG-08A-4-6	Potassium 40	24.5			pCi/g	15-Jun-05	3.5	0.9
F5F170373012	Soil	BRC-BKG-08A-4-6	Protactinium 234	0.06 U			pCi/g	15-Jun-05	0.16	0.25
F5F170373012	Soil	BRC-BKG-08A-4-6	Radium 223 [n]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Radium 224 [o]	1.45			pCi/g	15-Jun-05	0.25	0.2
HDWML1C4	Soil	BRC-BKG-08A-4-6	Radium 226	1.2			pCi/g	15-Jun-05	0.15	0.106
HDWML1C5	Soil	BRC-BKG-08A-4-6	Radium 228	2.05			pCi/g	15-Jun-05	0.24	0.532
F5F170373012	Soil	BRC-BKG-08A-4-6	Thallium 207 [p]	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Thallium 208	0.6			pCi/g	15-Jun-05	0.16	0.08
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 227	-0.24 U			pCi/g	15-Jun-05	0.44	0.74
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 228	1.97			pCi/g	15-Jun-05	0.43	0.31
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 230	1.21			pCi/g	15-Jun-05	0.28	0.11
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 231	0.047 J			pCi/g	15-Jun-05	0.053	0.032
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 232	2.01			pCi/g	15-Jun-05	0.37	0.07
F5F170373012	Soil	BRC-BKG-08A-4-6	Thorium 234	1.62			pCi/g	15-Jun-05	0.7	1.1
F5F170373012	Soil	BRC-BKG-08A-4-6	Uranium 233/234	0.94 J			pCi/g	15-Jun-05	0.22	0.05
F5F170373012	Soil	BRC-BKG-08A-4-6	Uranium 235	0.047 J			pCi/g	15-Jun-05	0.053	0.032
F5F170373012	Soil	BRC-BKG-08A-4-6	Uranium 238	1.17			pCi/g	15-Jun-05	0.25	0.03
F5F170373012	Soil	BRC-BKG-08A-4-6	Moisture (%)	3.2			percent	15-Jun-05		
F5F170373012	Soil	BRC-BKG-08A-4-6	Aluminum	6800 NE	J	j	mg/kg	15-Jun-05		2
F5F170373012	Soil	BRC-BKG-08A-4-6	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373012	Soil	BRC-BKG-08A-4-6	Arsenic	3.7			mg/kg	15-Jun-05		0.1278
F5F170373012	Soil	BRC-BKG-08A-4-6	Barium	140 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373012	Soil	BRC-BKG-08A-4-6	Beryllium	0.6			mg/kg	15-Jun-05		0.038
F5F170373012	Soil	BRC-BKG-08A-4-6	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373012	Soil	BRC-BKG-08A-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373012	Soil	BRC-BKG-08A-4-6	Calcium	17100 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373012	Soil	BRC-BKG-08A-4-6	Chromium	11.3			mg/kg	15-Jun-05		0.1841
F5F170373012	Soil	BRC-BKG-08A-4-6	Cobalt	9.4 E	J	j	mg/kg	15-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373012	Soil	BRC-BKG-08A-4-6	Copper	20.3 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373012	Soil	BRC-BKG-08A-4-6	Iron	14000 N			mg/kg	15-Jun-05		1.173
F5F170373012	Soil	BRC-BKG-08A-4-6	Lead	6.5			mg/kg	15-Jun-05		0.0506
F5F170373012	Soil	BRC-BKG-08A-4-6	Lithium	10.6			mg/kg	15-Jun-05		0.2425
F5F170373012	Soil	BRC-BKG-08A-4-6	Magnesium	8200 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373012	Soil	BRC-BKG-08A-4-6	Manganese	430 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373012	Soil	BRC-BKG-08A-4-6	Mercury	0.014 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373012	Soil	BRC-BKG-08A-4-6	Molybdenum	0.58 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373012	Soil	BRC-BKG-08A-4-6	Nickel	19.5 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373012	Soil	BRC-BKG-08A-4-6	Niobium	2.1 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373012	Soil	BRC-BKG-08A-4-6	Palladium	0.3			mg/kg	15-Jun-05		0.0765
F5F170373012	Soil	BRC-BKG-08A-4-6	Phosphorus	1820			mg/kg	15-Jun-05		1.913
F5F170373012	Soil	BRC-BKG-08A-4-6	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373012	Soil	BRC-BKG-08A-4-6	Potassium	1240 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373012	Soil	BRC-BKG-08A-4-6	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373012	Soil	BRC-BKG-08A-4-6	Silicon	703 N			mg/kg	15-Jun-05		0.5289
F5F170373012	Soil	BRC-BKG-08A-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373012	Soil	BRC-BKG-08A-4-6	Sodium	406			mg/kg	15-Jun-05		7.567
F5F170373012	Soil	BRC-BKG-08A-4-6	Strontium	135 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373012	Soil	BRC-BKG-08A-4-6	Thallium	0.47 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373012	Soil	BRC-BKG-08A-4-6	Tin	0.53 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373012	Soil	BRC-BKG-08A-4-6	Titanium	673 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373012	Soil	BRC-BKG-08A-4-6	Tungsten	1.5 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373012	Soil	BRC-BKG-08A-4-6	Uranium	1			mg/kg	15-Jun-05		0.038
F5F170373012	Soil	BRC-BKG-08A-4-6	Vanadium	43.6 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373012	Soil	BRC-BKG-08A-4-6	Zinc	36 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373012	Soil	BRC-BKG-08A-4-6	Zirconium	148 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373013	Soil	BRC-BKG-08A-9-11	Chloride	26.9 J			mg/kg	15-Jun-05		0.25
F5F170373013	Soil	BRC-BKG-08A-9-11	Fluoride	0.31 B			mg/kg	15-Jun-05		0.051
F5F170373013	Soil	BRC-BKG-08A-9-11	Nitrate	6			mg/kg	15-Jun-05		0.1
F5F170373013	Soil	BRC-BKG-08A-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373013	Soil	BRC-BKG-08A-9-11	Sulfate	108			mg/kg	15-Jun-05		0.612
F5F170373013	Soil	BRC-BKG-08A-9-11	CEC	13.1			meq/100g	15-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373013	Soil	BRC-BKG-08A-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373013	Soil	BRC-BKG-08A-9-11	pH (solid)	8.7			none	15-Jun-05		
F5F170373013	Soil	BRC-BKG-08A-9-11	Actinium 227 [d]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Actinium 228	2.08			pCi/g	15-Jun-05	0.71	0.42
F5F170373013	Soil	BRC-BKG-08A-9-11	Bismuth 210 [e]	0.4 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373013	Soil	BRC-BKG-08A-9-11	Bismuth 211 [f]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Bismuth 212	1.42			pCi/g	15-Jun-05	0.82	0.8
F5F170373013	Soil	BRC-BKG-08A-9-11	Bismuth 214	0.81			pCi/g	15-Jun-05	0.22	0.39
F5F170373013	Soil	BRC-BKG-08A-9-11	Cobalt 57	-0.01 U			pCi/g	15-Jun-05	0.035	0.06
F5F170373013	Soil	BRC-BKG-08A-9-11	Cobalt 60	0.04 U			pCi/g	15-Jun-05	0.062	0.13
F5F170373013	Soil	BRC-BKG-08A-9-11	Lead 210	0.4 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373013	Soil	BRC-BKG-08A-9-11	Lead 211 [g]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Lead 212	1.97			pCi/g	15-Jun-05	0.29	0.14
F5F170373013	Soil	BRC-BKG-08A-9-11	Lead 214	0.98			pCi/g	15-Jun-05	0.23	0.2
F5F170373013	Soil	BRC-BKG-08A-9-11	Polonium 210 [h]	0.4 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373013	Soil	BRC-BKG-08A-9-11	Polonium 212 [i]	0.91			pCi/g	15-Jun-05	0.53	0.51
F5F170373013	Soil	BRC-BKG-08A-9-11	Polonium 214 [j]	0.81			pCi/g	15-Jun-05	0.22	0.18
F5F170373013	Soil	BRC-BKG-08A-9-11	Polonium 215 [k]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Polonium 216 [l]	1.97			pCi/g	15-Jun-05	0.29	0.14
HDWMN1C5	Soil	BRC-BKG-08A-9-11	Polonium 218 [m]	0.833 J	J	k	pCi/g	15-Jun-05	0.11	0.125
F5F170373013	Soil	BRC-BKG-08A-9-11	Potassium 40	23.1			pCi/g	15-Jun-05	3.5	0.8
F5F170373013	Soil	BRC-BKG-08A-9-11	Protactinium 234	-0.15 U			pCi/g	15-Jun-05	0.18	0.29
F5F170373013	Soil	BRC-BKG-08A-9-11	Radium 223 [n]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Radium 224 [o]	1.97			pCi/g	15-Jun-05	0.29	0.14
HDWMN1C5	Soil	BRC-BKG-08A-9-11	Radium 226	0.833 J	J	k	pCi/g	15-Jun-05	0.11	0.125
HDWMN1C6	Soil	BRC-BKG-08A-9-11	Radium 228	2.57			pCi/g	15-Jun-05	0.26	0.459
F5F170373013	Soil	BRC-BKG-08A-9-11	Thallium 207 [p]	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Thallium 208	0.64			pCi/g	15-Jun-05	0.14	0.09
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 227	-0.17 U			pCi/g	15-Jun-05	0.49	0.83
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 228	1.86			pCi/g	15-Jun-05	0.37	0.17
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 230	1.22			pCi/g	15-Jun-05	0.28	0.08
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 231	0.047 U			pCi/g	15-Jun-05	0.055	0.064
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 232	1.9			pCi/g	15-Jun-05	0.36	0.06

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373013	Soil	BRC-BKG-08A-9-11	Thorium 234	1.71			pCi/g	15-Jun-05	0.55	1.1
F5F170373013	Soil	BRC-BKG-08A-9-11	Uranium 233/234	1.24			pCi/g	15-Jun-05	0.27	0.03
F5F170373013	Soil	BRC-BKG-08A-9-11	Uranium 235	0.047 U			pCi/g	15-Jun-05	0.055	0.064
F5F170373013	Soil	BRC-BKG-08A-9-11	Uranium 238	1.24			pCi/g	15-Jun-05	0.27	0.03
F5F170373013	Soil	BRC-BKG-08A-9-11	Moisture (%)	3.1			percent	15-Jun-05		
F5F170373013	Soil	BRC-BKG-08A-9-11	Aluminum	8440 NE	J	j	mg/kg	15-Jun-05		2
F5F170373013	Soil	BRC-BKG-08A-9-11	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373013	Soil	BRC-BKG-08A-9-11	Arsenic	4			mg/kg	15-Jun-05		0.1278
F5F170373013	Soil	BRC-BKG-08A-9-11	Barium	154 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373013	Soil	BRC-BKG-08A-9-11	Beryllium	0.62			mg/kg	15-Jun-05		0.038
F5F170373013	Soil	BRC-BKG-08A-9-11	Boron	4.5 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373013	Soil	BRC-BKG-08A-9-11	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373013	Soil	BRC-BKG-08A-9-11	Calcium	32300 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373013	Soil	BRC-BKG-08A-9-11	Chromium	7.8			mg/kg	15-Jun-05		0.1841
F5F170373013	Soil	BRC-BKG-08A-9-11	Cobalt	9.5 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373013	Soil	BRC-BKG-08A-9-11	Copper	20.9 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373013	Soil	BRC-BKG-08A-9-11	Iron	12500 N			mg/kg	15-Jun-05		1.173
F5F170373013	Soil	BRC-BKG-08A-9-11	Lead	5.9			mg/kg	15-Jun-05		0.0506
F5F170373013	Soil	BRC-BKG-08A-9-11	Lithium	13			mg/kg	15-Jun-05		0.2425
F5F170373013	Soil	BRC-BKG-08A-9-11	Magnesium	11600 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373013	Soil	BRC-BKG-08A-9-11	Manganese	382 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373013	Soil	BRC-BKG-08A-9-11	Mercury	0.012 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373013	Soil	BRC-BKG-08A-9-11	Molybdenum	0.56 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373013	Soil	BRC-BKG-08A-9-11	Nickel	20.2 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373013	Soil	BRC-BKG-08A-9-11	Niobium	1.7 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373013	Soil	BRC-BKG-08A-9-11	Palladium	0.5			mg/kg	15-Jun-05		0.0765
F5F170373013	Soil	BRC-BKG-08A-9-11	Phosphorus	1640			mg/kg	15-Jun-05		1.913
F5F170373013	Soil	BRC-BKG-08A-9-11	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373013	Soil	BRC-BKG-08A-9-11	Potassium	1350 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373013	Soil	BRC-BKG-08A-9-11	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373013	Soil	BRC-BKG-08A-9-11	Silicon	572 N			mg/kg	15-Jun-05		0.5289
F5F170373013	Soil	BRC-BKG-08A-9-11	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373013	Soil	BRC-BKG-08A-9-11	Sodium	615			mg/kg	15-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373013	Soil	BRC-BKG-08A-9-11	Strontium	211 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373013	Soil	BRC-BKG-08A-9-11	Thallium	0.43 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373013	Soil	BRC-BKG-08A-9-11	Tin	0.58 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373013	Soil	BRC-BKG-08A-9-11	Titanium	657 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373013	Soil	BRC-BKG-08A-9-11	Tungsten	1.4 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373013	Soil	BRC-BKG-08A-9-11	Uranium	1.3			mg/kg	15-Jun-05		0.038
F5F170373013	Soil	BRC-BKG-08A-9-11	Vanadium	40.5 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373013	Soil	BRC-BKG-08A-9-11	Zinc	34.3 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373013	Soil	BRC-BKG-08A-9-11	Zirconium	145 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Chloride	1.6 B J			mg/kg	15-Jun-05		0.25
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Nitrate	0.28			mg/kg	15-Jun-05		0.1
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Nitrite	0.075 B			mg/kg	15-Jun-05		0.061
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Sulfate	2.2 B			mg/kg	15-Jun-05		0.612
F5F170373014	Soil	BRC-BKG-08B-0-0.5	CEC	13.3			meq/100g	15-Jun-05		
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373014	Soil	BRC-BKG-08B-0-0.5	pH (solid)	9			none	15-Jun-05		
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Actinium 227 [d]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Actinium 228	1.91			pCi/g	15-Jun-05	0.62	0.22
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Bismuth 210 [e]	0.63 U			pCi/g	15-Jun-05	0.97	1.8
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Bismuth 211 [f]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Bismuth 212	0.6 U			pCi/g	15-Jun-05	0.46	0.69
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Bismuth 214	0.8			pCi/g	15-Jun-05	0.2	0.17
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Cobalt 57	0.014 U			pCi/g	15-Jun-05	0.028	0.049
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Cobalt 60	-0.001 U			pCi/g	15-Jun-05	0.051	0.097
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lead 210	0.63 U			pCi/g	15-Jun-05	0.97	1.8
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lead 211 [g]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lead 212	1.38			pCi/g	15-Jun-05	0.23	0.15
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lead 214	0.91			pCi/g	15-Jun-05	0.22	0.14
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Polonium 210 [h]	0.63 U			pCi/g	15-Jun-05	0.97	1.8
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Polonium 212 [i]	0.38 U			pCi/g	15-Jun-05	0.29	0.44
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Polonium 214 [j]	0.8			pCi/g	15-Jun-05	0.2	0.17
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Polonium 215 [k]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Polonium 216 [l]	1.38			pCi/g	15-Jun-05	0.23	0.15
HDWMR1C6	Soil	BRC-BKG-08B-0-0.5	Polonium 218 [m]	0.96 J	J	k	pCi/g	15-Jun-05	0.14	0.153
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Potassium 40	22.2			pCi/g	15-Jun-05	3.3	0.8
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Protactinium 234	0.07 U			pCi/g	15-Jun-05	0.15	0.23
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Radium 223 [n]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Radium 224 [o]	1.38			pCi/g	15-Jun-05	0.23	0.15
HDWMR1C6	Soil	BRC-BKG-08B-0-0.5	Radium 226	0.96 J	J	k	pCi/g	15-Jun-05	0.14	0.153
HDWMR1C7	Soil	BRC-BKG-08B-0-0.5	Radium 228	1.95 J	J	k	pCi/g	15-Jun-05	0.24	0.705
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thallium 207 [p]	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thallium 208	0.5			pCi/g	15-Jun-05	0.12	0.08
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 227	-0.32 U			pCi/g	15-Jun-05	0.35	0.58
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 228	1.8			pCi/g	15-Jun-05	0.36	0.17
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 230	0.95 J			pCi/g	15-Jun-05	0.24	0.11
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 231	0.03 U			pCi/g	15-Jun-05	0.059	0.091
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 232	1.79			pCi/g	15-Jun-05	0.34	0.08
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thorium 234	0.58 U			pCi/g	15-Jun-05	0.57	1
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Uranium 233/234	0.7 J			pCi/g	15-Jun-05	0.22	0.13
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Uranium 235	0.03 U			pCi/g	15-Jun-05	0.059	0.091
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Uranium 238	1.14			pCi/g	15-Jun-05	0.28	0.1
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Moisture (%)	1.2			percent	15-Jun-05		
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Aluminum	6360 NE	J	j	mg/kg	15-Jun-05		2
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Arsenic	3			mg/kg	15-Jun-05		0.1278
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Barium	117 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Beryllium	0.54			mg/kg	15-Jun-05		0.038
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Calcium	14600 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Chromium	7.6			mg/kg	15-Jun-05		0.1841
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Cobalt	9 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Copper	18.5 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Iron	12100 N			mg/kg	15-Jun-05		1.173
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lead	7.4			mg/kg	15-Jun-05		0.0506

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Lithium	8.7			mg/kg	15-Jun-05		0.2425
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Magnesium	8370 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Manganese	438 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Mercury	0.038			mg/kg	15-Jun-05		0.0072
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Molybdenum	0.38 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Nickel	15.8 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Palladium	0.21			mg/kg	15-Jun-05		0.0765
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Phosphorus	1720			mg/kg	15-Jun-05		1.913
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Potassium	1240 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Silicon	541 N			mg/kg	15-Jun-05		0.5289
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Sodium	132			mg/kg	15-Jun-05		7.567
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Strontium	97.7 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Thallium	0.6 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Tin	0.41 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Titanium	509 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Tungsten	0.78 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Uranium	0.82 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Vanadium	34.7 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Zinc	32.5 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373014	Soil	BRC-BKG-08B-0-0.5	Zirconium	132 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373015	Soil	BRC-BKG-08B-4-6	Chloride	36 J			mg/kg	15-Jun-05		0.25
F5F170373015	Soil	BRC-BKG-08B-4-6	Fluoride	0.94 B			mg/kg	15-Jun-05		0.051
F5F170373015	Soil	BRC-BKG-08B-4-6	Nitrate	2.3			mg/kg	15-Jun-05		0.1
F5F170373015	Soil	BRC-BKG-08B-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373015	Soil	BRC-BKG-08B-4-6	Sulfate	62.3			mg/kg	15-Jun-05		0.612
F5F170373015	Soil	BRC-BKG-08B-4-6	CEC	23.6			meq/100g	15-Jun-05		
F5F170373015	Soil	BRC-BKG-08B-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373015	Soil	BRC-BKG-08B-4-6	pH (solid)	9.1			none	15-Jun-05		
F5F170373015	Soil	BRC-BKG-08B-4-6	Actinium 227 [d]	0.03 U			pCi/g	15-Jun-05	0.48	0.85

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373015	Soil	BRC-BKG-08B-4-6	Actinium 228	1.47			pCi/g	15-Jun-05	0.59	0.38
F5F170373015	Soil	BRC-BKG-08B-4-6	Bismuth 210 [e]	0.8 U			pCi/g	15-Jun-05	1.3	2.5
F5F170373015	Soil	BRC-BKG-08B-4-6	Bismuth 211 [f]	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Bismuth 212	0.91			pCi/g	15-Jun-05	0.71	0.84
F5F170373015	Soil	BRC-BKG-08B-4-6	Bismuth 214	1.14			pCi/g	15-Jun-05	0.27	0.48
F5F170373015	Soil	BRC-BKG-08B-4-6	Cobalt 57	0.005 U			pCi/g	15-Jun-05	0.033	0.058
F5F170373015	Soil	BRC-BKG-08B-4-6	Cobalt 60	-0.017 U			pCi/g	15-Jun-05	0.063	0.11
F5F170373015	Soil	BRC-BKG-08B-4-6	Lead 210	0.8 U			pCi/g	15-Jun-05	1.3	2.5
F5F170373015	Soil	BRC-BKG-08B-4-6	Lead 211 [g]	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Lead 212	1.53			pCi/g	15-Jun-05	0.27	0.19
F5F170373015	Soil	BRC-BKG-08B-4-6	Lead 214	1.03			pCi/g	15-Jun-05	0.23	0.18
F5F170373015	Soil	BRC-BKG-08B-4-6	Polonium 210 [h]	0.8 U			pCi/g	15-Jun-05	1.3	2.5
F5F170373015	Soil	BRC-BKG-08B-4-6	Polonium 212 [i]	0.58			pCi/g	15-Jun-05	0.46	0.54
F5F170373015	Soil	BRC-BKG-08B-4-6	Polonium 214 [j]	1.14			pCi/g	15-Jun-05	0.27	0.2
F5F170373015	Soil	BRC-BKG-08B-4-6	Polonium 215 [k]	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Polonium 216 [l]	1.53			pCi/g	15-Jun-05	0.27	0.19
HDWMV1C4	Soil	BRC-BKG-08B-4-6	Polonium 218 [m]	1.46			pCi/g	15-Jun-05	0.18	0.127
F5F170373015	Soil	BRC-BKG-08B-4-6	Potassium 40	24.2			pCi/g	15-Jun-05	3.6	0.7
F5F170373015	Soil	BRC-BKG-08B-4-6	Protactinium 234	-0.11 U			pCi/g	15-Jun-05	0.17	0.29
F5F170373015	Soil	BRC-BKG-08B-4-6	Radium 223 [n]	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Radium 224 [o]	1.53			pCi/g	15-Jun-05	0.27	0.19
HDWMV1C4	Soil	BRC-BKG-08B-4-6	Radium 226	1.46			pCi/g	15-Jun-05	0.18	0.127
HDWMV1C5	Soil	BRC-BKG-08B-4-6	Radium 228	2.23			pCi/g	15-Jun-05	0.28	0.793
F5F170373015	Soil	BRC-BKG-08B-4-6	Thallium 207 [p]	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Thallium 208	0.64			pCi/g	15-Jun-05	0.14	0.09
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 227	0.03 U			pCi/g	15-Jun-05	0.48	0.85
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 228	1.79			pCi/g	15-Jun-05	0.37	0.18
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 230	1.16			pCi/g	15-Jun-05	0.28	0.07
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 231	0.043 U			pCi/g	15-Jun-05	0.062	0.086
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 232	1.57			pCi/g	15-Jun-05	0.33	0.08
F5F170373015	Soil	BRC-BKG-08B-4-6	Thorium 234	1.6			pCi/g	15-Jun-05	0.76	1.3
F5F170373015	Soil	BRC-BKG-08B-4-6	Uranium 233/234	1.08			pCi/g	15-Jun-05	0.26	0.08
F5F170373015	Soil	BRC-BKG-08B-4-6	Uranium 235	0.043 U			pCi/g	15-Jun-05	0.062	0.086

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373015	Soil	BRC-BKG-08B-4-6	Uranium 238	1.03			pCi/g	15-Jun-05	0.25	0.07
F5F170373015	Soil	BRC-BKG-08B-4-6	Moisture (%)	5.9			percent	15-Jun-05		
F5F170373015	Soil	BRC-BKG-08B-4-6	Aluminum	8100 NE	J	j	mg/kg	15-Jun-05		2
F5F170373015	Soil	BRC-BKG-08B-4-6	Antimony	0.32 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373015	Soil	BRC-BKG-08B-4-6	Arsenic	3.8			mg/kg	15-Jun-05		0.1278
F5F170373015	Soil	BRC-BKG-08B-4-6	Barium	254 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373015	Soil	BRC-BKG-08B-4-6	Beryllium	0.77			mg/kg	15-Jun-05		0.038
F5F170373015	Soil	BRC-BKG-08B-4-6	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373015	Soil	BRC-BKG-08B-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373015	Soil	BRC-BKG-08B-4-6	Calcium	28700 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373015	Soil	BRC-BKG-08B-4-6	Chromium	7.9			mg/kg	15-Jun-05		0.1841
F5F170373015	Soil	BRC-BKG-08B-4-6	Cobalt	14.8 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373015	Soil	BRC-BKG-08B-4-6	Copper	22.9 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373015	Soil	BRC-BKG-08B-4-6	Iron	13000 N			mg/kg	15-Jun-05		1.173
F5F170373015	Soil	BRC-BKG-08B-4-6	Lead	7.8			mg/kg	15-Jun-05		0.0506
F5F170373015	Soil	BRC-BKG-08B-4-6	Lithium	11.8			mg/kg	15-Jun-05		0.2425
F5F170373015	Soil	BRC-BKG-08B-4-6	Magnesium	10400 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373015	Soil	BRC-BKG-08B-4-6	Manganese	863 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373015	Soil	BRC-BKG-08B-4-6	Mercury	0.021 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373015	Soil	BRC-BKG-08B-4-6	Molybdenum	1 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373015	Soil	BRC-BKG-08B-4-6	Nickel	19.7 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373015	Soil	BRC-BKG-08B-4-6	Niobium	1.3 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373015	Soil	BRC-BKG-08B-4-6	Palladium	0.34			mg/kg	15-Jun-05		0.0765
F5F170373015	Soil	BRC-BKG-08B-4-6	Phosphorus	1780			mg/kg	15-Jun-05		1.913
F5F170373015	Soil	BRC-BKG-08B-4-6	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373015	Soil	BRC-BKG-08B-4-6	Potassium	1350 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373015	Soil	BRC-BKG-08B-4-6	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373015	Soil	BRC-BKG-08B-4-6	Silicon	684 N			mg/kg	15-Jun-05		0.5289
F5F170373015	Soil	BRC-BKG-08B-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373015	Soil	BRC-BKG-08B-4-6	Sodium	536			mg/kg	15-Jun-05		7.567
F5F170373015	Soil	BRC-BKG-08B-4-6	Strontium	158 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373015	Soil	BRC-BKG-08B-4-6	Thallium	0.51 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373015	Soil	BRC-BKG-08B-4-6	Tin	0.53 B	J	g	mg/kg	15-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373015	Soil	BRC-BKG-08B-4-6	Titanium	600 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373015	Soil	BRC-BKG-08B-4-6	Tungsten	1.1 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373015	Soil	BRC-BKG-08B-4-6	Uranium	1.2			mg/kg	15-Jun-05		0.038
F5F170373015	Soil	BRC-BKG-08B-4-6	Vanadium	41.6 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373015	Soil	BRC-BKG-08B-4-6	Zinc	35.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373015	Soil	BRC-BKG-08B-4-6	Zirconium	157 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373016	Soil	BRC-BKG-08B-9-11	Chloride	144 J			mg/kg	15-Jun-05		0.25
F5F170373016	Soil	BRC-BKG-08B-9-11	Fluoride	0.5 B			mg/kg	15-Jun-05		0.051
F5F170373016	Soil	BRC-BKG-08B-9-11	Nitrate	2.9			mg/kg	15-Jun-05		0.1
F5F170373016	Soil	BRC-BKG-08B-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373016	Soil	BRC-BKG-08B-9-11	Sulfate	641			mg/kg	15-Jun-05		0.612
F5F170373016	Soil	BRC-BKG-08B-9-11	CEC	17.3			meq/100g	15-Jun-05		
F5F170373016	Soil	BRC-BKG-08B-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373016	Soil	BRC-BKG-08B-9-11	pH (solid)	8.5			none	15-Jun-05		
F5F170373016	Soil	BRC-BKG-08B-9-11	Actinium 227 [d]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Actinium 228	2.52			pCi/g	15-Jun-05	0.81	0.44
F5F170373016	Soil	BRC-BKG-08B-9-11	Bismuth 210 [e]	0.7 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373016	Soil	BRC-BKG-08B-9-11	Bismuth 211 [f]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Bismuth 212	1.06			pCi/g	15-Jun-05	0.59	0.83
F5F170373016	Soil	BRC-BKG-08B-9-11	Bismuth 214	0.98			pCi/g	15-Jun-05	0.27	0.38
F5F170373016	Soil	BRC-BKG-08B-9-11	Cobalt 57	-0.009 U			pCi/g	15-Jun-05	0.031	0.051
F5F170373016	Soil	BRC-BKG-08B-9-11	Cobalt 60	0.024 U			pCi/g	15-Jun-05	0.06	0.12
F5F170373016	Soil	BRC-BKG-08B-9-11	Lead 210	0.7 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373016	Soil	BRC-BKG-08B-9-11	Lead 211 [g]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Lead 212	1.89			pCi/g	15-Jun-05	0.27	0.15
F5F170373016	Soil	BRC-BKG-08B-9-11	Lead 214	1.07			pCi/g	15-Jun-05	0.25	0.16
F5F170373016	Soil	BRC-BKG-08B-9-11	Polonium 210 [h]	0.7 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373016	Soil	BRC-BKG-08B-9-11	Polonium 212 [i]	0.68			pCi/g	15-Jun-05	0.38	0.53
F5F170373016	Soil	BRC-BKG-08B-9-11	Polonium 214 [j]	0.98			pCi/g	15-Jun-05	0.26	0.18
F5F170373016	Soil	BRC-BKG-08B-9-11	Polonium 215 [k]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Polonium 216 [l]	1.89			pCi/g	15-Jun-05	0.27	0.15
HDWMW1DH	Soil	BRC-BKG-08B-9-11	Polonium 218 [m]	1.11			pCi/g	15-Jun-05	0.15	0.145
F5F170373016	Soil	BRC-BKG-08B-9-11	Potassium 40	26.6			pCi/g	15-Jun-05	3.8	0.8

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373016	Soil	BRC-BKG-08B-9-11	Protactinium 234	-0.1 U			pCi/g	15-Jun-05	0.15	0.25
F5F170373016	Soil	BRC-BKG-08B-9-11	Radium 223 [n]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Radium 224 [o]	1.89			pCi/g	15-Jun-05	0.27	0.15
HDWMW1DH	Soil	BRC-BKG-08B-9-11	Radium 226	1.11			pCi/g	15-Jun-05	0.15	0.145
HDWMW1DJ	Soil	BRC-BKG-08B-9-11	Radium 228	2.04			pCi/g	15-Jun-05	0.25	0.674
F5F170373016	Soil	BRC-BKG-08B-9-11	Thallium 207 [p]	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Thallium 208	0.58			pCi/g	15-Jun-05	0.15	0.09
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 227	-0.27 U			pCi/g	15-Jun-05	0.45	0.75
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 228	1.91			pCi/g	15-Jun-05	0.42	0.19
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 230	1.23			pCi/g	15-Jun-05	0.31	0.1
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 231	0.077 U			pCi/g	15-Jun-05	0.093	0.12
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 232	1.89			pCi/g	15-Jun-05	0.4	0.08
F5F170373016	Soil	BRC-BKG-08B-9-11	Thorium 234	2.01			pCi/g	15-Jun-05	0.7	1.2
F5F170373016	Soil	BRC-BKG-08B-9-11	Uranium 233/234	1.48			pCi/g	15-Jun-05	0.37	0.17
F5F170373016	Soil	BRC-BKG-08B-9-11	Uranium 235	0.077 U			pCi/g	15-Jun-05	0.093	0.12
F5F170373016	Soil	BRC-BKG-08B-9-11	Uranium 238	1.42			pCi/g	15-Jun-05	0.36	0.12
F5F170373016	Soil	BRC-BKG-08B-9-11	Moisture (%)	4.1			percent	15-Jun-05		
F5F170373016	Soil	BRC-BKG-08B-9-11	Aluminum	7270 NE	J	j	mg/kg	15-Jun-05		2
F5F170373016	Soil	BRC-BKG-08B-9-11	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373016	Soil	BRC-BKG-08B-9-11	Arsenic	4.2			mg/kg	15-Jun-05		0.1278
F5F170373016	Soil	BRC-BKG-08B-9-11	Barium	203 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373016	Soil	BRC-BKG-08B-9-11	Beryllium	0.64			mg/kg	15-Jun-05		0.038
F5F170373016	Soil	BRC-BKG-08B-9-11	Boron	3.9 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373016	Soil	BRC-BKG-08B-9-11	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373016	Soil	BRC-BKG-08B-9-11	Calcium	21500 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373016	Soil	BRC-BKG-08B-9-11	Chromium	7.4			mg/kg	15-Jun-05		0.1841
F5F170373016	Soil	BRC-BKG-08B-9-11	Cobalt	8.1 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373016	Soil	BRC-BKG-08B-9-11	Copper	17.1 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373016	Soil	BRC-BKG-08B-9-11	Iron	12300 N			mg/kg	15-Jun-05		1.173
F5F170373016	Soil	BRC-BKG-08B-9-11	Lead	7.3			mg/kg	15-Jun-05		0.0506
F5F170373016	Soil	BRC-BKG-08B-9-11	Lithium	14.1			mg/kg	15-Jun-05		0.2425
F5F170373016	Soil	BRC-BKG-08B-9-11	Magnesium	9540 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373016	Soil	BRC-BKG-08B-9-11	Manganese	605 NE	J	j	mg/kg	15-Jun-05		0.0131

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373016	Soil	BRC-BKG-08B-9-11	Mercury	0.019 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373016	Soil	BRC-BKG-08B-9-11	Molybdenum	0.54 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373016	Soil	BRC-BKG-08B-9-11	Nickel	16 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373016	Soil	BRC-BKG-08B-9-11	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373016	Soil	BRC-BKG-08B-9-11	Palladium	0.35			mg/kg	15-Jun-05		0.0765
F5F170373016	Soil	BRC-BKG-08B-9-11	Phosphorus	1880			mg/kg	15-Jun-05		1.913
F5F170373016	Soil	BRC-BKG-08B-9-11	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373016	Soil	BRC-BKG-08B-9-11	Potassium	1140 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373016	Soil	BRC-BKG-08B-9-11	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373016	Soil	BRC-BKG-08B-9-11	Silicon	608 N			mg/kg	15-Jun-05		0.5289
F5F170373016	Soil	BRC-BKG-08B-9-11	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373016	Soil	BRC-BKG-08B-9-11	Sodium	630			mg/kg	15-Jun-05		7.567
F5F170373016	Soil	BRC-BKG-08B-9-11	Strontium	160 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373016	Soil	BRC-BKG-08B-9-11	Thallium	0.4 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373016	Soil	BRC-BKG-08B-9-11	Tin	0.45 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373016	Soil	BRC-BKG-08B-9-11	Titanium	473 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373016	Soil	BRC-BKG-08B-9-11	Tungsten	2.1 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373016	Soil	BRC-BKG-08B-9-11	Uranium	0.95 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373016	Soil	BRC-BKG-08B-9-11	Vanadium	33.4 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373016	Soil	BRC-BKG-08B-9-11	Zinc	34.1 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373016	Soil	BRC-BKG-08B-9-11	Zirconium	158 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Chloride	1.2 B J			mg/kg	15-Jun-05		0.25
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Fluoride	U			mg/kg	15-Jun-05		0.051
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Nitrate	0.26			mg/kg	15-Jun-05		0.1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Sulfate	2.1 B			mg/kg	15-Jun-05		0.612
F5F170373017	Soil	BRC-BKG-08C-0-0.5	CEC	14.8			meq/100g	15-Jun-05		
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373017	Soil	BRC-BKG-08C-0-0.5	pH (solid)	8.7			none	15-Jun-05		
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Actinium 227 [d]	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Actinium 228	1.8			pCi/g	15-Jun-05	0.68	0.4
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Bismuth 210 [e]	-0.002 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Bismuth 211 [f]	0.14 U			pCi/g	15-Jun-05	0.46	0.81

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Bismuth 212	0.92 U			pCi/g	15-Jun-05	0.54	1.1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Bismuth 214	0.9			pCi/g	15-Jun-05	0.21	0.38
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Cobalt 57	-0.024 U			pCi/g	15-Jun-05	0.032	0.053
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Cobalt 60	0.008 U			pCi/g	15-Jun-05	0.057	0.11
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lead 210	-0.002 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lead 211 [g]	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lead 212	1.76			pCi/g	15-Jun-05	0.26	0.12
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lead 214	0.86			pCi/g	15-Jun-05	0.21	0.18
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Polonium 210 [h]	-0.002 U			pCi/g	15-Jun-05	1.2	2.1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Polonium 212 [i]	0.59 U			pCi/g	15-Jun-05	0.34	0.7
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Polonium 214 [j]	0.9			pCi/g	15-Jun-05	0.21	0.17
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Polonium 215 [k]	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Polonium 216 [l]	1.76			pCi/g	15-Jun-05	0.26	0.12
HDWMX1C4	Soil	BRC-BKG-08C-0-0.5	Polonium 218 [m]	0.987 J	J	k	pCi/g	15-Jun-05	0.14	0.141
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Potassium 40	24.4			pCi/g	15-Jun-05	3.7	1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Protactinium 234	0.03 U			pCi/g	15-Jun-05	0.19	0.28
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Radium 223 [n]	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Radium 224 [o]	1.76			pCi/g	15-Jun-05	0.26	0.12
HDWMX1C4	Soil	BRC-BKG-08C-0-0.5	Radium 226	0.987 J	J	k	pCi/g	15-Jun-05	0.14	0.141
HDWMX1C5	Soil	BRC-BKG-08C-0-0.5	Radium 228	1.3 J	J	k	pCi/g	15-Jun-05	0.2	0.627
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thallium 207 [p]	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thallium 208	0.62			pCi/g	15-Jun-05	0.14	0.09
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 227	0.14 U			pCi/g	15-Jun-05	0.46	0.81
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 228	1.74			pCi/g	15-Jun-05	0.35	0.16
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 230	1.35			pCi/g	15-Jun-05	0.3	0.11
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 231	0.097 J			pCi/g	15-Jun-05	0.077	0.075
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 232	1.52			pCi/g	15-Jun-05	0.31	0.05
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thorium 234	1.72			pCi/g	15-Jun-05	0.54	1
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Uranium 233/234	0.9 J			pCi/g	15-Jun-05	0.22	0.07
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Uranium 235	0.097 J			pCi/g	15-Jun-05	0.077	0.075
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Uranium 238	0.93 J			pCi/g	15-Jun-05	0.22	0.06
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Moisture (%)	1.2			percent	15-Jun-05		
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Aluminum	6820 NE	J	j	mg/kg	15-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Arsenic	3.4			mg/kg	15-Jun-05		0.1278
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Barium	127 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Beryllium	0.62			mg/kg	15-Jun-05		0.038
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Calcium	17600 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Chromium	13.1			mg/kg	15-Jun-05		0.1841
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Cobalt	9.4 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Copper	19 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Iron	14600 N			mg/kg	15-Jun-05		1.173
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lead	10.5			mg/kg	15-Jun-05		0.0506
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Lithium	10.2			mg/kg	15-Jun-05		0.2425
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Magnesium	8590 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Manganese	434 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Mercury	0.0098 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Molybdenum	0.43 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Nickel	18.1 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Niobium	1.2 BN	UJ-	b, e	mg/kg	15-Jun-05		1.015
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Palladium	0.27			mg/kg	15-Jun-05		0.0765
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Phosphorus	1830			mg/kg	15-Jun-05		1.913
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Potassium	1580 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Silicon	721 N			mg/kg	15-Jun-05		0.5289
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Sodium	200			mg/kg	15-Jun-05		7.567
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Strontium	119 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Thallium	0.87 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Tin	0.53 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Titanium	618 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Tungsten	0.71 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Uranium	0.92 B	J	g	mg/kg	15-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Vanadium	47 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Zinc	35.7 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373017	Soil	BRC-BKG-08C-0-0.5	Zirconium	132 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373018	Soil	BRC-BKG-08C-4-6	Chloride	4.1 J			mg/kg	15-Jun-05		0.25
F5F170373018	Soil	BRC-BKG-08C-4-6	Fluoride	0.67 B			mg/kg	15-Jun-05		0.051
F5F170373018	Soil	BRC-BKG-08C-4-6	Nitrate	0.69			mg/kg	15-Jun-05		0.1
F5F170373018	Soil	BRC-BKG-08C-4-6	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373018	Soil	BRC-BKG-08C-4-6	Sulfate	4.3 B			mg/kg	15-Jun-05		0.612
F5F170373018	Soil	BRC-BKG-08C-4-6	CEC	14.7			meq/100g	15-Jun-05		
F5F170373018	Soil	BRC-BKG-08C-4-6	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373018	Soil	BRC-BKG-08C-4-6	pH (solid)	9			none	15-Jun-05		
F5F170373018	Soil	BRC-BKG-08C-4-6	Actinium 227 [d]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Actinium 228	2.24			pCi/g	15-Jun-05	0.71	0.37
F5F170373018	Soil	BRC-BKG-08C-4-6	Bismuth 210 [e]	0.2 U			pCi/g	15-Jun-05	1	1.9
F5F170373018	Soil	BRC-BKG-08C-4-6	Bismuth 211 [f]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Bismuth 212	1.05			pCi/g	15-Jun-05	0.67	0.77
F5F170373018	Soil	BRC-BKG-08C-4-6	Bismuth 214	0.8			pCi/g	15-Jun-05	0.22	0.38
F5F170373018	Soil	BRC-BKG-08C-4-6	Cobalt 57	0.021 U			pCi/g	15-Jun-05	0.028	0.049
F5F170373018	Soil	BRC-BKG-08C-4-6	Cobalt 60	0.038 U			pCi/g	15-Jun-05	0.058	0.12
F5F170373018	Soil	BRC-BKG-08C-4-6	Lead 210	0.2 U			pCi/g	15-Jun-05	1	1.9
F5F170373018	Soil	BRC-BKG-08C-4-6	Lead 211 [g]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Lead 212	1.54			pCi/g	15-Jun-05	0.26	0.16
F5F170373018	Soil	BRC-BKG-08C-4-6	Lead 214	1			pCi/g	15-Jun-05	0.22	0.15
F5F170373018	Soil	BRC-BKG-08C-4-6	Polonium 210 [h]	0.2 U			pCi/g	15-Jun-05	1	1.9
F5F170373018	Soil	BRC-BKG-08C-4-6	Polonium 212 [i]	0.67			pCi/g	15-Jun-05	0.43	0.49
F5F170373018	Soil	BRC-BKG-08C-4-6	Polonium 214 [j]	0.8			pCi/g	15-Jun-05	0.22	0.15
F5F170373018	Soil	BRC-BKG-08C-4-6	Polonium 215 [k]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Polonium 216 [l]	1.54			pCi/g	15-Jun-05	0.26	0.16
HDWM21C4	Soil	BRC-BKG-08C-4-6	Polonium 218 [m]	1.07			pCi/g	15-Jun-05	0.14	0.0919
F5F170373018	Soil	BRC-BKG-08C-4-6	Potassium 40	25.3			pCi/g	15-Jun-05	3.6	5.4
F5F170373018	Soil	BRC-BKG-08C-4-6	Protactinium 234	-0.16 U			pCi/g	15-Jun-05	0.14	0.23
F5F170373018	Soil	BRC-BKG-08C-4-6	Radium 223 [n]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Radium 224 [o]	1.54			pCi/g	15-Jun-05	0.26	0.16

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HDWM21C4	Soil	BRC-BKG-08C-4-6	Radium 226	1.07			pCi/g	15-Jun-05	0.14	0.0919
HDWM21C5	Soil	BRC-BKG-08C-4-6	Radium 228	2.11			pCi/g	15-Jun-05	0.23	0.549
F5F170373018	Soil	BRC-BKG-08C-4-6	Thallium 207 [p]	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Thallium 208	0.56			pCi/g	15-Jun-05	0.13	0.09
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 227	0.13 U			pCi/g	15-Jun-05	0.42	0.76
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 228	1.87			pCi/g	15-Jun-05	0.33	0.12
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 230	1.27			pCi/g	15-Jun-05	0.26	0.06
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 231	0.052 J			pCi/g	15-Jun-05	0.058	0.035
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 232	1.77			pCi/g	15-Jun-05	0.31	0.05
F5F170373018	Soil	BRC-BKG-08C-4-6	Thorium 234	1.4			pCi/g	15-Jun-05	0.65	1.1
F5F170373018	Soil	BRC-BKG-08C-4-6	Uranium 233/234	1.17			pCi/g	15-Jun-05	0.29	0.07
F5F170373018	Soil	BRC-BKG-08C-4-6	Uranium 235	0.081 J			pCi/g	15-Jun-05	0.08	0.044
F5F170373018	Soil	BRC-BKG-08C-4-6	Uranium 238	0.95 J			pCi/g	15-Jun-05	0.26	0.07
F5F170373018	Soil	BRC-BKG-08C-4-6	Moisture (%)	4.2			percent	15-Jun-05		
F5F170373018	Soil	BRC-BKG-08C-4-6	Aluminum	8010 NE	J	j	mg/kg	15-Jun-05		2
F5F170373018	Soil	BRC-BKG-08C-4-6	Antimony	N U	UJ-	e	mg/kg	15-Jun-05		0.3298
F5F170373018	Soil	BRC-BKG-08C-4-6	Arsenic	3.7			mg/kg	15-Jun-05		0.1278
F5F170373018	Soil	BRC-BKG-08C-4-6	Barium	118 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373018	Soil	BRC-BKG-08C-4-6	Beryllium	0.66			mg/kg	15-Jun-05		0.038
F5F170373018	Soil	BRC-BKG-08C-4-6	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373018	Soil	BRC-BKG-08C-4-6	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373018	Soil	BRC-BKG-08C-4-6	Calcium	19900 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373018	Soil	BRC-BKG-08C-4-6	Chromium	9.1			mg/kg	15-Jun-05		0.1841
F5F170373018	Soil	BRC-BKG-08C-4-6	Cobalt	9.1 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373018	Soil	BRC-BKG-08C-4-6	Copper	19.7 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373018	Soil	BRC-BKG-08C-4-6	Iron	12600 N			mg/kg	15-Jun-05		1.173
F5F170373018	Soil	BRC-BKG-08C-4-6	Lead	7.2			mg/kg	15-Jun-05		0.0506
F5F170373018	Soil	BRC-BKG-08C-4-6	Lithium	11.6			mg/kg	15-Jun-05		0.2425
F5F170373018	Soil	BRC-BKG-08C-4-6	Magnesium	9440 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373018	Soil	BRC-BKG-08C-4-6	Manganese	350 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373018	Soil	BRC-BKG-08C-4-6	Mercury	U			mg/kg	15-Jun-05		0.0072
F5F170373018	Soil	BRC-BKG-08C-4-6	Molybdenum	0.48 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373018	Soil	BRC-BKG-08C-4-6	Nickel	19.5 E	J	j	mg/kg	15-Jun-05		0.1295

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373018	Soil	BRC-BKG-08C-4-6	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373018	Soil	BRC-BKG-08C-4-6	Palladium	0.34			mg/kg	15-Jun-05		0.0765
F5F170373018	Soil	BRC-BKG-08C-4-6	Phosphorus	1810			mg/kg	15-Jun-05		1.913
F5F170373018	Soil	BRC-BKG-08C-4-6	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373018	Soil	BRC-BKG-08C-4-6	Potassium	1480 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373018	Soil	BRC-BKG-08C-4-6	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373018	Soil	BRC-BKG-08C-4-6	Silicon	653 N			mg/kg	15-Jun-05		0.5289
F5F170373018	Soil	BRC-BKG-08C-4-6	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373018	Soil	BRC-BKG-08C-4-6	Sodium	428			mg/kg	15-Jun-05		7.567
F5F170373018	Soil	BRC-BKG-08C-4-6	Strontium	159 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373018	Soil	BRC-BKG-08C-4-6	Thallium	0.48 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373018	Soil	BRC-BKG-08C-4-6	Tin	0.49 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373018	Soil	BRC-BKG-08C-4-6	Titanium	531 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373018	Soil	BRC-BKG-08C-4-6	Tungsten	0.7 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373018	Soil	BRC-BKG-08C-4-6	Uranium	1 B	J	g	mg/kg	15-Jun-05		0.038
F5F170373018	Soil	BRC-BKG-08C-4-6	Vanadium	37 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373018	Soil	BRC-BKG-08C-4-6	Zinc	35.8 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373018	Soil	BRC-BKG-08C-4-6	Zirconium	149 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F170373019	Soil	BRC-BKG-08C-9-11	Chloride	155 J			mg/kg	15-Jun-05		0.25
F5F170373019	Soil	BRC-BKG-08C-9-11	Fluoride	0.77 B			mg/kg	15-Jun-05		0.051
F5F170373019	Soil	BRC-BKG-08C-9-11	Nitrate	1.4			mg/kg	15-Jun-05		0.1
F5F170373019	Soil	BRC-BKG-08C-9-11	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373019	Soil	BRC-BKG-08C-9-11	Sulfate	73.1			mg/kg	15-Jun-05		0.612
F5F170373019	Soil	BRC-BKG-08C-9-11	CEC	6.7			meq/100g	15-Jun-05		
F5F170373019	Soil	BRC-BKG-08C-9-11	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373019	Soil	BRC-BKG-08C-9-11	pH (solid)	8.6			none	15-Jun-05		
F5F170373019	Soil	BRC-BKG-08C-9-11	Actinium 227 [d]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Actinium 228	1.8			pCi/g	15-Jun-05	0.69	0.4
F5F170373019	Soil	BRC-BKG-08C-9-11	Bismuth 210 [e]	1.2 U			pCi/g	15-Jun-05	1.2	2.4
F5F170373019	Soil	BRC-BKG-08C-9-11	Bismuth 211 [f]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Bismuth 212	0.99			pCi/g	15-Jun-05	0.56	0.71
F5F170373019	Soil	BRC-BKG-08C-9-11	Bismuth 214	0.89			pCi/g	15-Jun-05	0.25	0.44
F5F170373019	Soil	BRC-BKG-08C-9-11	Cobalt 57	-0.005 U			pCi/g	15-Jun-05	0.032	0.055

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373019	Soil	BRC-BKG-08C-9-11	Cobalt 60	-0.03 U			pCi/g	15-Jun-05	0.054	0.093
F5F170373019	Soil	BRC-BKG-08C-9-11	Lead 210	1.2 U			pCi/g	15-Jun-05	1.2	2.4
F5F170373019	Soil	BRC-BKG-08C-9-11	Lead 211 [g]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Lead 212	1.69			pCi/g	15-Jun-05	0.3	0.17
F5F170373019	Soil	BRC-BKG-08C-9-11	Lead 214	0.91			pCi/g	15-Jun-05	0.21	0.17
F5F170373019	Soil	BRC-BKG-08C-9-11	Polonium 210 [h]	1.2 U			pCi/g	15-Jun-05	1.2	2.4
F5F170373019	Soil	BRC-BKG-08C-9-11	Polonium 212 [i]	0.63			pCi/g	15-Jun-05	0.36	0.45
F5F170373019	Soil	BRC-BKG-08C-9-11	Polonium 214 [j]	0.89			pCi/g	15-Jun-05	0.25	0.18
F5F170373019	Soil	BRC-BKG-08C-9-11	Polonium 215 [k]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Polonium 216 [l]	1.69			pCi/g	15-Jun-05	0.3	0.17
HDWM41C4	Soil	BRC-BKG-08C-9-11	Polonium 218 [m]	1.13			pCi/g	15-Jun-05	0.15	0.148
F5F170373019	Soil	BRC-BKG-08C-9-11	Potassium 40	25.8			pCi/g	15-Jun-05	3.8	0.7
F5F170373019	Soil	BRC-BKG-08C-9-11	Protactinium 234	-0.24 U			pCi/g	15-Jun-05	0.17	0.26
F5F170373019	Soil	BRC-BKG-08C-9-11	Radium 223 [n]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Radium 224 [o]	1.69			pCi/g	15-Jun-05	0.3	0.17
HDWM41C4	Soil	BRC-BKG-08C-9-11	Radium 226	1.13			pCi/g	15-Jun-05	0.15	0.148
HDWM41C5	Soil	BRC-BKG-08C-9-11	Radium 228	1.93 J	J	k	pCi/g	15-Jun-05	0.25	0.706
F5F170373019	Soil	BRC-BKG-08C-9-11	Thallium 207 [p]	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Thallium 208	0.57			pCi/g	15-Jun-05	0.14	0.09
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 227	0.37 U			pCi/g	15-Jun-05	0.49	0.91
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 228	1.84			pCi/g	15-Jun-05	0.38	0.17
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 230	1.66			pCi/g	15-Jun-05	0.35	0.09
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 231	0.063 U			pCi/g	15-Jun-05	0.073	0.091
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 232	1.91			pCi/g	15-Jun-05	0.38	0.08
F5F170373019	Soil	BRC-BKG-08C-9-11	Thorium 234	0.27 U			pCi/g	15-Jun-05	0.69	1.2
F5F170373019	Soil	BRC-BKG-08C-9-11	Uranium 233/234	1.13			pCi/g	15-Jun-05	0.3	0.14
F5F170373019	Soil	BRC-BKG-08C-9-11	Uranium 235	0.14 J			pCi/g	15-Jun-05	0.11	0.11
F5F170373019	Soil	BRC-BKG-08C-9-11	Uranium 238	1.01			pCi/g	15-Jun-05	0.27	0.1
F5F170373019	Soil	BRC-BKG-08C-9-11	Moisture (%)	3.2			percent	15-Jun-05		
F5F170373019	Soil	BRC-BKG-08C-9-11	Aluminum	8250 NE	J	j	mg/kg	15-Jun-05		2
F5F170373019	Soil	BRC-BKG-08C-9-11	Antimony	0.15 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373019	Soil	BRC-BKG-08C-9-11	Arsenic	3.7			mg/kg	15-Jun-05		0.1278
F5F170373019	Soil	BRC-BKG-08C-9-11	Barium	139 E	J	j	mg/kg	15-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373019	Soil	BRC-BKG-08C-9-11	Beryllium	0.67			mg/kg	15-Jun-05		0.038
F5F170373019	Soil	BRC-BKG-08C-9-11	Boron	U			mg/kg	15-Jun-05		3.2
F5F170373019	Soil	BRC-BKG-08C-9-11	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373019	Soil	BRC-BKG-08C-9-11	Calcium	28800 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373019	Soil	BRC-BKG-08C-9-11	Chromium	10			mg/kg	15-Jun-05		0.1841
F5F170373019	Soil	BRC-BKG-08C-9-11	Cobalt	9.2 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373019	Soil	BRC-BKG-08C-9-11	Copper	20.4 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373019	Soil	BRC-BKG-08C-9-11	Iron	13200 N			mg/kg	15-Jun-05		1.173
F5F170373019	Soil	BRC-BKG-08C-9-11	Lead	6.3			mg/kg	15-Jun-05		0.0506
F5F170373019	Soil	BRC-BKG-08C-9-11	Lithium	13.4			mg/kg	15-Jun-05		0.2425
F5F170373019	Soil	BRC-BKG-08C-9-11	Magnesium	11500 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373019	Soil	BRC-BKG-08C-9-11	Manganese	390 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373019	Soil	BRC-BKG-08C-9-11	Mercury	0.07			mg/kg	15-Jun-05		0.0072
F5F170373019	Soil	BRC-BKG-08C-9-11	Molybdenum	0.52 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373019	Soil	BRC-BKG-08C-9-11	Nickel	19.3 E	J	j	mg/kg	15-Jun-05		0.1295
F5F170373019	Soil	BRC-BKG-08C-9-11	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373019	Soil	BRC-BKG-08C-9-11	Palladium	0.39			mg/kg	15-Jun-05		0.0765
F5F170373019	Soil	BRC-BKG-08C-9-11	Phosphorus	1660			mg/kg	15-Jun-05		1.913
F5F170373019	Soil	BRC-BKG-08C-9-11	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373019	Soil	BRC-BKG-08C-9-11	Potassium	1250 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373019	Soil	BRC-BKG-08C-9-11	Selenium	0.27 B	J	g	mg/kg	15-Jun-05		0.1579
F5F170373019	Soil	BRC-BKG-08C-9-11	Silicon	610 N			mg/kg	15-Jun-05		0.5289
F5F170373019	Soil	BRC-BKG-08C-9-11	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373019	Soil	BRC-BKG-08C-9-11	Sodium	542			mg/kg	15-Jun-05		7.567
F5F170373019	Soil	BRC-BKG-08C-9-11	Strontium	177 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373019	Soil	BRC-BKG-08C-9-11	Thallium	0.66 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373019	Soil	BRC-BKG-08C-9-11	Tin	0.55 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373019	Soil	BRC-BKG-08C-9-11	Titanium	621 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373019	Soil	BRC-BKG-08C-9-11	Tungsten	0.74 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373019	Soil	BRC-BKG-08C-9-11	Uranium	1.2			mg/kg	15-Jun-05		0.038
F5F170373019	Soil	BRC-BKG-08C-9-11	Vanadium	39.4 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373019	Soil	BRC-BKG-08C-9-11	Zinc	36.9 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373019	Soil	BRC-BKG-08C-9-11	Zirconium	142 NE	J	j	mg/kg	15-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Chloride	38.7			mg/kg	14-Jun-05		0.25
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Nitrate	9.3	J	h	mg/kg	14-Jun-05		0.1
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Nitrite	0.15 B	J	h, g	mg/kg	14-Jun-05		0.061
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Sulfate	857			mg/kg	14-Jun-05		0.612
F5F160308017	Soil	BRC-BKG-09A-0-0.5	CEC	15.1 J	J	g	meq/100g	14-Jun-05		
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308017	Soil	BRC-BKG-09A-0-0.5	pH (solid)	8.2	J	h	none	14-Jun-05		
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Actinium 227 [d]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Actinium 228	1.56			pCi/g	14-Jun-05	0.59	0.42
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Bismuth 210 [e]	0.8 U			pCi/g	14-Jun-05	1.1	2
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Bismuth 211 [f]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Bismuth 212	0.78			pCi/g	14-Jun-05	0.55	0.78
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Bismuth 214	0.87			pCi/g	14-Jun-05	0.25	0.17
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Cobalt 57	-0.0007 U			pCi/g	14-Jun-05	0.028	0.047
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Cobalt 60	-0.049 U			pCi/g	14-Jun-05	0.048	0.073
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lead 210	0.8 U			pCi/g	14-Jun-05	1.1	2
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lead 211 [g]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lead 212	1.27			pCi/g	14-Jun-05	0.2	0.1
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lead 214	0.85			pCi/g	14-Jun-05	0.2	0.13
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Polonium 210 [h]	0.8 U			pCi/g	14-Jun-05	1.1	2
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Polonium 212 [i]	0.5			pCi/g	14-Jun-05	0.35	0.5
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Polonium 214 [j]	0.87			pCi/g	14-Jun-05	0.25	0.17
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Polonium 215 [k]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Polonium 216 [l]	1.27			pCi/g	14-Jun-05	0.2	0.1
HDRGV1C4	Soil	BRC-BKG-09A-0-0.5	Polonium 218 [m]	0.792 J	J	k	pCi/g	14-Jun-05	0.11	0.0975
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Potassium 40	20.3			pCi/g	14-Jun-05	3.5	1
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Protactinium 234	-0.14 U			pCi/g	14-Jun-05	0.14	0.22
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Radium 223 [n]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Radium 224 [o]	1.27			pCi/g	14-Jun-05	0.2	0.1
HDRGV1C4	Soil	BRC-BKG-09A-0-0.5	Radium 226	0.792 J	J	k	pCi/g	14-Jun-05	0.11	0.0975
HDRGV1C5	Soil	BRC-BKG-09A-0-0.5	Radium 228	1.7 J	J	k	pCi/g	14-Jun-05	0.26	0.847
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thallium 207 [p]	-0.29 U			pCi/g	14-Jun-05	0.38	0.62

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thallium 208	0.47			pCi/g	14-Jun-05	0.12	0.09
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 227	-0.29 U			pCi/g	14-Jun-05	0.38	0.62
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 228	1.5			pCi/g	14-Jun-05	0.32	0.15
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 230	0.92 J	J	k	pCi/g	14-Jun-05	0.23	0.08
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 231	0.11 U			pCi/g	14-Jun-05	0.11	0.13
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 232	1.57			pCi/g	14-Jun-05	0.32	0.07
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thorium 234	0.6 U			pCi/g	14-Jun-05	0.59	1
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Uranium 233/234	0.98 J	U	b	pCi/g	14-Jun-05	0.28	0.15
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Uranium 235	0.11 U			pCi/g	14-Jun-05	0.11	0.13
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Uranium 238	0.65 J	J	k	pCi/g	14-Jun-05	0.22	0.1
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Moisture (%)	0.65			percent	14-Jun-05		
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Aluminum	11200 NE	J	j	mg/kg	14-Jun-05		2
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Arsenic	4.3			mg/kg	14-Jun-05		0.1278
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Barium	142 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Beryllium	0.32 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Boron	8.8	J+	b	mg/kg	14-Jun-05		3.2
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Calcium	28000 N			mg/kg	14-Jun-05		1.028
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Chromium	7.5			mg/kg	14-Jun-05		0.1841
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Cobalt	12.2 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Copper	25.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Iron	13700 N			mg/kg	14-Jun-05		1.173
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lead	25.6			mg/kg	14-Jun-05		0.0506
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Lithium	12.4			mg/kg	14-Jun-05		0.2425
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Magnesium	13700 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Manganese	460 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Mercury	0.049			mg/kg	14-Jun-05		0.0072
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Molybdenum	0.45 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Nickel	25.9 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Niobium	1.8 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Palladium	0.45			mg/kg	14-Jun-05		0.0765
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Phosphorus	1760 N			mg/kg	14-Jun-05		1.913

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Potassium	1580 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Silicon	519 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Sodium	410			mg/kg	14-Jun-05		7.567
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Strontium	192 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Thallium	1.2			mg/kg	14-Jun-05		0.5428
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Tin	0.59 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Titanium	677 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Tungsten	1.2 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Vanadium	43.4 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Zinc	45.9			mg/kg	14-Jun-05		0.2207
F5F160308017	Soil	BRC-BKG-09A-0-0.5	Zirconium	166 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308018	Soil	BRC-BKG-09A-4-6	Chloride	47.7			mg/kg	14-Jun-05		0.25
F5F160308018	Soil	BRC-BKG-09A-4-6	Fluoride	0.58 B	U	b	mg/kg	14-Jun-05		0.051
F5F160308018	Soil	BRC-BKG-09A-4-6	Nitrate	58.6	J	h	mg/kg	14-Jun-05		0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308018	Soil	BRC-BKG-09A-4-6	Sulfate	202			mg/kg	14-Jun-05		0.612
F5F160308018	Soil	BRC-BKG-09A-4-6	CEC	14.6 J	J	g	meq/100g	14-Jun-05		
F5F160308018	Soil	BRC-BKG-09A-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308018	Soil	BRC-BKG-09A-4-6	pH (solid)	8.4	J	h	none	14-Jun-05		
F5F160308018	Soil	BRC-BKG-09A-4-6	Actinium 227 [d]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Actinium 228	1.61			pCi/g	14-Jun-05	0.64	0.37
F5F160308018	Soil	BRC-BKG-09A-4-6	Bismuth 210 [e]	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308018	Soil	BRC-BKG-09A-4-6	Bismuth 211 [f]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Bismuth 212	0.53 U			pCi/g	14-Jun-05	0.47	0.95
F5F160308018	Soil	BRC-BKG-09A-4-6	Bismuth 214	0.91			pCi/g	14-Jun-05	0.22	0.15
F5F160308018	Soil	BRC-BKG-09A-4-6	Cobalt 57	0.013 U			pCi/g	14-Jun-05	0.032	0.057
F5F160308018	Soil	BRC-BKG-09A-4-6	Cobalt 60	-0.015 U			pCi/g	14-Jun-05	0.056	0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Lead 210	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308018	Soil	BRC-BKG-09A-4-6	Lead 211 [g]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308018	Soil	BRC-BKG-09A-4-6	Lead 212	1.41			pCi/g	14-Jun-05	0.25	0.21
F5F160308018	Soil	BRC-BKG-09A-4-6	Lead 214	0.85			pCi/g	14-Jun-05	0.24	0.17
F5F160308018	Soil	BRC-BKG-09A-4-6	Polonium 210 [h]	-0.3 U			pCi/g	14-Jun-05	1.1	2
F5F160308018	Soil	BRC-BKG-09A-4-6	Polonium 212 [i]	0.34 U			pCi/g	14-Jun-05	0.3	0.61
F5F160308018	Soil	BRC-BKG-09A-4-6	Polonium 214 [j]	0.91			pCi/g	14-Jun-05	0.21	0.15
F5F160308018	Soil	BRC-BKG-09A-4-6	Polonium 215 [k]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Polonium 216 [l]	1.41			pCi/g	14-Jun-05	0.25	0.21
HDRGW1C4	Soil	BRC-BKG-09A-4-6	Polonium 218 [m]	0.865 J	J	k, n	pCi/g	14-Jun-05	0.13	0.172
F5F160308018	Soil	BRC-BKG-09A-4-6	Potassium 40	22.2			pCi/g	14-Jun-05	3.4	0.9
F5F160308018	Soil	BRC-BKG-09A-4-6	Protactinium 234	0.03 U			pCi/g	14-Jun-05	0.17	0.3
F5F160308018	Soil	BRC-BKG-09A-4-6	Radium 223 [n]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Radium 224 [o]	1.41			pCi/g	14-Jun-05	0.25	0.21
HDRGW1C4	Soil	BRC-BKG-09A-4-6	Radium 226	0.865 J	J	k, n	pCi/g	14-Jun-05	0.13	0.172
HDRGW1C5	Soil	BRC-BKG-09A-4-6	Radium 228	1.44 J	J	k	pCi/g	14-Jun-05	0.25	0.85
F5F160308018	Soil	BRC-BKG-09A-4-6	Thallium 207 [p]	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Thallium 208	0.61			pCi/g	14-Jun-05	0.13	0.06
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 227	-0.52 U			pCi/g	14-Jun-05	0.47	0.72
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 228	1.82			pCi/g	14-Jun-05	0.34	0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 230	1.13			pCi/g	14-Jun-05	0.26	0.05
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 231	0.12 J	U	b	pCi/g	14-Jun-05	0.1	0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 232	1.97			pCi/g	14-Jun-05	0.36	0.07
F5F160308018	Soil	BRC-BKG-09A-4-6	Thorium 234	1.3			pCi/g	14-Jun-05	1.1	1
F5F160308018	Soil	BRC-BKG-09A-4-6	Uranium 233/234	0.92 J	U	b	pCi/g	14-Jun-05	0.24	0.11
F5F160308018	Soil	BRC-BKG-09A-4-6	Uranium 235	0.12 J	J	k	pCi/g	14-Jun-05	0.1	0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Uranium 238	1.01			pCi/g	14-Jun-05	0.25	0.1
F5F160308018	Soil	BRC-BKG-09A-4-6	Moisture (%)	3.8			percent	14-Jun-05		
F5F160308018	Soil	BRC-BKG-09A-4-6	Aluminum	11100 NE	J	j	mg/kg	14-Jun-05		2
F5F160308018	Soil	BRC-BKG-09A-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308018	Soil	BRC-BKG-09A-4-6	Arsenic	3.6			mg/kg	14-Jun-05		0.1278
F5F160308018	Soil	BRC-BKG-09A-4-6	Barium	218 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308018	Soil	BRC-BKG-09A-4-6	Beryllium	0.42 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308018	Soil	BRC-BKG-09A-4-6	Boron	5.8	J+	b	mg/kg	14-Jun-05		3.2
F5F160308018	Soil	BRC-BKG-09A-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308018	Soil	BRC-BKG-09A-4-6	Calcium	37300 N			mg/kg	14-Jun-05		1.028
F5F160308018	Soil	BRC-BKG-09A-4-6	Chromium	9.8			mg/kg	14-Jun-05		0.1841
F5F160308018	Soil	BRC-BKG-09A-4-6	Cobalt	9.7 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308018	Soil	BRC-BKG-09A-4-6	Copper	20.8 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308018	Soil	BRC-BKG-09A-4-6	Iron	14600 N			mg/kg	14-Jun-05		1.173
F5F160308018	Soil	BRC-BKG-09A-4-6	Lead	9.3			mg/kg	14-Jun-05		0.0506
F5F160308018	Soil	BRC-BKG-09A-4-6	Lithium	14.4			mg/kg	14-Jun-05		0.2425
F5F160308018	Soil	BRC-BKG-09A-4-6	Magnesium	11000 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308018	Soil	BRC-BKG-09A-4-6	Manganese	380 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308018	Soil	BRC-BKG-09A-4-6	Mercury	0.027 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308018	Soil	BRC-BKG-09A-4-6	Molybdenum	0.45 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308018	Soil	BRC-BKG-09A-4-6	Nickel	17.5 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308018	Soil	BRC-BKG-09A-4-6	Niobium	1.2 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308018	Soil	BRC-BKG-09A-4-6	Palladium	0.55			mg/kg	14-Jun-05		0.0765
F5F160308018	Soil	BRC-BKG-09A-4-6	Phosphorus	1230 N			mg/kg	14-Jun-05		1.913
F5F160308018	Soil	BRC-BKG-09A-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308018	Soil	BRC-BKG-09A-4-6	Potassium	2110 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308018	Soil	BRC-BKG-09A-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308018	Soil	BRC-BKG-09A-4-6	Silicon	476 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308018	Soil	BRC-BKG-09A-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308018	Soil	BRC-BKG-09A-4-6	Sodium	303			mg/kg	14-Jun-05		7.567
F5F160308018	Soil	BRC-BKG-09A-4-6	Strontium	260 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308018	Soil	BRC-BKG-09A-4-6	Thallium	0.98 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308018	Soil	BRC-BKG-09A-4-6	Tin	0.55 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308018	Soil	BRC-BKG-09A-4-6	Titanium	671 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308018	Soil	BRC-BKG-09A-4-6	Tungsten	1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308018	Soil	BRC-BKG-09A-4-6	Uranium	0.9 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308018	Soil	BRC-BKG-09A-4-6	Vanadium	42.7 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308018	Soil	BRC-BKG-09A-4-6	Zinc	37.9			mg/kg	14-Jun-05		0.2207
F5F160308018	Soil	BRC-BKG-09A-4-6	Zirconium	138 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308019	Soil	BRC-BKG-09A-9-11	Chloride	22.9			mg/kg	14-Jun-05		0.25
F5F160308019	Soil	BRC-BKG-09A-9-11	Fluoride	0.93 B	U	b	mg/kg	14-Jun-05		0.051
F5F160308019	Soil	BRC-BKG-09A-9-11	Nitrate	20.8	J	h	mg/kg	14-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308019	Soil	BRC-BKG-09A-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308019	Soil	BRC-BKG-09A-9-11	Sulfate	147			mg/kg	14-Jun-05		0.612
F5F160308019	Soil	BRC-BKG-09A-9-11	CEC	7.9 J	J	g	meq/100g	14-Jun-05		
F5F160308019	Soil	BRC-BKG-09A-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308019	Soil	BRC-BKG-09A-9-11	pH (solid)	8.5	J	h	none	14-Jun-05		
F5F160308019	Soil	BRC-BKG-09A-9-11	Actinium 227 [d]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Actinium 228	1.51			pCi/g	14-Jun-05	0.6	0.32
F5F160308019	Soil	BRC-BKG-09A-9-11	Bismuth 210 [e]	0.91 U			pCi/g	14-Jun-05	0.95	1.8
F5F160308019	Soil	BRC-BKG-09A-9-11	Bismuth 211 [f]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Bismuth 212	0.84			pCi/g	14-Jun-05	0.59	0.65
F5F160308019	Soil	BRC-BKG-09A-9-11	Bismuth 214	1.02			pCi/g	14-Jun-05	0.25	0.16
F5F160308019	Soil	BRC-BKG-09A-9-11	Cobalt 57	-0.0003 U			pCi/g	14-Jun-05	0.027	0.045
F5F160308019	Soil	BRC-BKG-09A-9-11	Cobalt 60	0.003 U			pCi/g	14-Jun-05	0.052	0.1
F5F160308019	Soil	BRC-BKG-09A-9-11	Lead 210	0.91 U			pCi/g	14-Jun-05	0.96	1.8
F5F160308019	Soil	BRC-BKG-09A-9-11	Lead 211 [g]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Lead 212	1.62			pCi/g	14-Jun-05	0.28	0.15
F5F160308019	Soil	BRC-BKG-09A-9-11	Lead 214	0.99			pCi/g	14-Jun-05	0.21	0.15
F5F160308019	Soil	BRC-BKG-09A-9-11	Polonium 210 [h]	0.91 U			pCi/g	14-Jun-05	0.95	1.8
F5F160308019	Soil	BRC-BKG-09A-9-11	Polonium 212 [i]	0.54			pCi/g	14-Jun-05	0.38	0.42
F5F160308019	Soil	BRC-BKG-09A-9-11	Polonium 214 [j]	1.02			pCi/g	14-Jun-05	0.24	0.16
F5F160308019	Soil	BRC-BKG-09A-9-11	Polonium 215 [k]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Polonium 216 [l]	1.62			pCi/g	14-Jun-05	0.28	0.15
HDRGX1C6	Soil	BRC-BKG-09A-9-11	Polonium 218 [m]	1.13			pCi/g	14-Jun-05	0.15	0.134
F5F160308019	Soil	BRC-BKG-09A-9-11	Potassium 40	25.8			pCi/g	14-Jun-05	3.6	0.6
F5F160308019	Soil	BRC-BKG-09A-9-11	Protactinium 234	-0.12 U			pCi/g	14-Jun-05	0.14	0.23
F5F160308019	Soil	BRC-BKG-09A-9-11	Radium 223 [n]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Radium 224 [o]	1.62			pCi/g	14-Jun-05	0.28	0.15
HDRGX1C6	Soil	BRC-BKG-09A-9-11	Radium 226	1.13			pCi/g	14-Jun-05	0.15	0.134
HDRGX1C7	Soil	BRC-BKG-09A-9-11	Radium 228	1.73 J	J	k	pCi/g	14-Jun-05	0.24	0.76
F5F160308019	Soil	BRC-BKG-09A-9-11	Thallium 207 [p]	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Thallium 208	0.71			pCi/g	14-Jun-05	0.16	0.08
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 227	0.31 U			pCi/g	14-Jun-05	0.4	0.75
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 228	1.37			pCi/g	14-Jun-05	0.61	0.61

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 230	1.3			pCi/g	14-Jun-05	0.44	0.24
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 231	0.087 J	U	b	pCi/g	14-Jun-05	0.083	0.077
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 232	1.41			pCi/g	14-Jun-05	0.45	0.21
F5F160308019	Soil	BRC-BKG-09A-9-11	Thorium 234	1.48			pCi/g	14-Jun-05	0.49	0.85
F5F160308019	Soil	BRC-BKG-09A-9-11	Uranium 233/234	0.95 J	U	b	pCi/g	14-Jun-05	0.26	0.1
F5F160308019	Soil	BRC-BKG-09A-9-11	Uranium 235	0.087 J	J	k	pCi/g	14-Jun-05	0.083	0.077
F5F160308019	Soil	BRC-BKG-09A-9-11	Uranium 238	1.36			pCi/g	14-Jun-05	0.32	0.04
F5F160308019	Soil	BRC-BKG-09A-9-11	Moisture (%)	4.3			percent	14-Jun-05		
F5F160308019	Soil	BRC-BKG-09A-9-11	Aluminum	12000 NE	J	j	mg/kg	14-Jun-05		2
F5F160308019	Soil	BRC-BKG-09A-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308019	Soil	BRC-BKG-09A-9-11	Arsenic	4			mg/kg	14-Jun-05		0.1278
F5F160308019	Soil	BRC-BKG-09A-9-11	Barium	171 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308019	Soil	BRC-BKG-09A-9-11	Beryllium	0.42 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308019	Soil	BRC-BKG-09A-9-11	Boron	5.5	J+	b	mg/kg	14-Jun-05		3.2
F5F160308019	Soil	BRC-BKG-09A-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308019	Soil	BRC-BKG-09A-9-11	Calcium	19200 N			mg/kg	14-Jun-05		1.028
F5F160308019	Soil	BRC-BKG-09A-9-11	Chromium	14.1			mg/kg	14-Jun-05		0.1841
F5F160308019	Soil	BRC-BKG-09A-9-11	Cobalt	11.3 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308019	Soil	BRC-BKG-09A-9-11	Copper	23.9 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308019	Soil	BRC-BKG-09A-9-11	Iron	14300 N			mg/kg	14-Jun-05		1.173
F5F160308019	Soil	BRC-BKG-09A-9-11	Lead	6.6			mg/kg	14-Jun-05		0.0506
F5F160308019	Soil	BRC-BKG-09A-9-11	Lithium	16			mg/kg	14-Jun-05		0.2425
F5F160308019	Soil	BRC-BKG-09A-9-11	Magnesium	12400 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308019	Soil	BRC-BKG-09A-9-11	Manganese	499 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308019	Soil	BRC-BKG-09A-9-11	Mercury	0.013 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308019	Soil	BRC-BKG-09A-9-11	Molybdenum	0.42 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308019	Soil	BRC-BKG-09A-9-11	Nickel	19.1 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308019	Soil	BRC-BKG-09A-9-11	Niobium	1.2 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308019	Soil	BRC-BKG-09A-9-11	Palladium	0.33			mg/kg	14-Jun-05		0.0765
F5F160308019	Soil	BRC-BKG-09A-9-11	Phosphorus	1420 N			mg/kg	14-Jun-05		1.913
F5F160308019	Soil	BRC-BKG-09A-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308019	Soil	BRC-BKG-09A-9-11	Potassium	1380 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308019	Soil	BRC-BKG-09A-9-11	Selenium	U			mg/kg	14-Jun-05		0.1579

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308019	Soil	BRC-BKG-09A-9-11	Silicon	423 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308019	Soil	BRC-BKG-09A-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308019	Soil	BRC-BKG-09A-9-11	Sodium	213			mg/kg	14-Jun-05		7.567
F5F160308019	Soil	BRC-BKG-09A-9-11	Strontium	153 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308019	Soil	BRC-BKG-09A-9-11	Thallium	1.2			mg/kg	14-Jun-05		0.5428
F5F160308019	Soil	BRC-BKG-09A-9-11	Tin	0.51 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308019	Soil	BRC-BKG-09A-9-11	Titanium	674 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308019	Soil	BRC-BKG-09A-9-11	Tungsten	1.1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308019	Soil	BRC-BKG-09A-9-11	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308019	Soil	BRC-BKG-09A-9-11	Vanadium	44.4 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308019	Soil	BRC-BKG-09A-9-11	Zinc	37.4			mg/kg	14-Jun-05		0.2207
F5F160308019	Soil	BRC-BKG-09A-9-11	Zirconium	149 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Chloride	7			mg/kg	14-Jun-05		0.25
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Sulfate	318 J			mg/kg	14-Jun-05		0.612
F5F160308009	Soil	BRC-BKG-09B-0-0.5	CEC	13.3 J	J	g	meq/100g	14-Jun-05		
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308009	Soil	BRC-BKG-09B-0-0.5	pH (solid)	8.1	J	h	none	14-Jun-05		
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Actinium 227 [d]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Actinium 228	1.48			pCi/g	14-Jun-05	0.55	0.31
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Bismuth 210 [e]	0.6 U			pCi/g	14-Jun-05	1.1	2
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Bismuth 211 [f]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Bismuth 212	0.83			pCi/g	14-Jun-05	0.56	0.6
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Bismuth 214	0.95			pCi/g	14-Jun-05	0.21	0.35
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Cobalt 57	-0.002 U			pCi/g	14-Jun-05	0.027	0.045
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Cobalt 60	0.006 U			pCi/g	14-Jun-05	0.058	0.11
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lead 210	0.6 U			pCi/g	14-Jun-05	1.1	2
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lead 211 [g]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lead 212	1.13			pCi/g	14-Jun-05	0.22	0.17
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lead 214	0.93			pCi/g	14-Jun-05	0.21	0.12
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Polonium 210 [h]	0.6 U			pCi/g	14-Jun-05	1.1	2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Polonium 212 [i]	0.53			pCi/g	14-Jun-05	0.36	0.39
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Polonium 214 [j]	0.95			pCi/g	14-Jun-05	0.21	0.17
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Polonium 215 [k]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Polonium 216 [l]	1.13			pCi/g	14-Jun-05	0.22	0.17
HDRFK1C4	Soil	BRC-BKG-09B-0-0.5	Polonium 218 [m]	0.877 J	J	k	pCi/g	14-Jun-05	0.12	0.124
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Potassium 40	21.5			pCi/g	14-Jun-05	3.5	0.9
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Protactinium 234	-0.09 U			pCi/g	14-Jun-05	0.13	0.22
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Radium 223 [n]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Radium 224 [o]	1.13			pCi/g	14-Jun-05	0.22	0.17
HDRFK1C4	Soil	BRC-BKG-09B-0-0.5	Radium 226	0.877 J	J	k	pCi/g	14-Jun-05	0.12	0.124
HDRFK2C5	Soil	BRC-BKG-09B-0-0.5	Radium 228	1.11 J	U	k, b	pCi/g	14-Jun-05	0.17	0.487
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thallium 207 [p]	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thallium 208	0.46			pCi/g	14-Jun-05	0.11	0.09
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 227	-0.49 U			pCi/g	14-Jun-05	0.38	0.59
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 228	1.77			pCi/g	14-Jun-05	0.35	0.14
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 230	0.91 J	J	k	pCi/g	14-Jun-05	0.23	0.07
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 231	0.101 J	U	b	pCi/g	14-Jun-05	0.08	0.063
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 232	1.71			pCi/g	14-Jun-05	0.33	0.05
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thorium 234	1.92			pCi/g	14-Jun-05	0.7	0.91
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Uranium 233/234	0.97 J	U	b	pCi/g	14-Jun-05	0.24	0.08
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Uranium 235	0.101 J	J	k	pCi/g	14-Jun-05	0.08	0.063
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Uranium 238	1.05			pCi/g	14-Jun-05	0.25	0.03
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Moisture (%)	0.65			percent	14-Jun-05		
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Aluminum	6340 NE	J	j	mg/kg	14-Jun-05		2
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Arsenic	2.9			mg/kg	14-Jun-05		0.1278
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Barium	154 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Beryllium	0.16 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Boron	4.8 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Calcium	15000 N			mg/kg	14-Jun-05		1.028
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Chromium	8.4			mg/kg	14-Jun-05		0.1841
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Cobalt	10.1 E	J	j	mg/kg	14-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Copper	23.1 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Iron	9030 N			mg/kg	14-Jun-05		1.173
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lead	35.1			mg/kg	14-Jun-05		0.0506
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Lithium	10			mg/kg	14-Jun-05		0.2425
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Magnesium	10500 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Manganese	282 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Mercury	0.082			mg/kg	14-Jun-05		0.0072
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Molybdenum	0.34 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Nickel	27.8 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Niobium	1.4 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Palladium	0.3			mg/kg	14-Jun-05		0.0765
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Phosphorus	1220 N			mg/kg	14-Jun-05		1.913
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Platinum	0.082 B	J	g	mg/kg	14-Jun-05		0.0435
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Potassium	1420 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Silicon	409 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Sodium	128			mg/kg	14-Jun-05		7.567
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Strontium	143 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Thallium	0.75 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Tin	0.8 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Titanium	438 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Tungsten	1 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Uranium	0.87 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Vanadium	33.9 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Zinc	38.9			mg/kg	14-Jun-05		0.2207
F5F160308009	Soil	BRC-BKG-09B-0-0.5	Zirconium	117 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308020	Soil	BRC-BKG-09B-4-6	Chloride	134			mg/kg	14-Jun-05		0.25
F5F160308020	Soil	BRC-BKG-09B-4-6	Fluoride	1.4	U	b	mg/kg	14-Jun-05		0.051
F5F160308020	Soil	BRC-BKG-09B-4-6	Nitrate	54.9	J	h	mg/kg	14-Jun-05		0.1
F5F160308020	Soil	BRC-BKG-09B-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308020	Soil	BRC-BKG-09B-4-6	Sulfate	419			mg/kg	14-Jun-05		0.612
F5F160308020	Soil	BRC-BKG-09B-4-6	CEC	11.3			meq/100g	14-Jun-05		

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308020	Soil	BRC-BKG-09B-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308020	Soil	BRC-BKG-09B-4-6	pH (solid)	8.2	J	h	none	14-Jun-05		
F5F160308020	Soil	BRC-BKG-09B-4-6	Actinium 227 [d]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Actinium 228	2.04			pCi/g	14-Jun-05	0.73	0.33
F5F160308020	Soil	BRC-BKG-09B-4-6	Bismuth 210 [e]	0.2 U			pCi/g	14-Jun-05	1.4	2.6
F5F160308020	Soil	BRC-BKG-09B-4-6	Bismuth 211 [f]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Bismuth 212	1.32			pCi/g	14-Jun-05	0.6	1.3
F5F160308020	Soil	BRC-BKG-09B-4-6	Bismuth 214	1.05			pCi/g	14-Jun-05	0.27	0.49
F5F160308020	Soil	BRC-BKG-09B-4-6	Cobalt 57	0.009 U			pCi/g	14-Jun-05	0.034	0.06
F5F160308020	Soil	BRC-BKG-09B-4-6	Cobalt 60	0.023 U			pCi/g	14-Jun-05	0.061	0.13
F5F160308020	Soil	BRC-BKG-09B-4-6	Lead 210	0.2 U			pCi/g	14-Jun-05	1.4	2.6
F5F160308020	Soil	BRC-BKG-09B-4-6	Lead 211 [g]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Lead 212	1.72			pCi/g	14-Jun-05	0.3	0.18
F5F160308020	Soil	BRC-BKG-09B-4-6	Lead 214	0.88			pCi/g	14-Jun-05	0.23	0.17
F5F160308020	Soil	BRC-BKG-09B-4-6	Polonium 210 [h]	0.2 U			pCi/g	14-Jun-05	1.4	2.6
F5F160308020	Soil	BRC-BKG-09B-4-6	Polonium 212 [i]	0.85			pCi/g	14-Jun-05	0.38	0.84
F5F160308020	Soil	BRC-BKG-09B-4-6	Polonium 214 [j]	1.05			pCi/g	14-Jun-05	0.27	0.18
F5F160308020	Soil	BRC-BKG-09B-4-6	Polonium 215 [k]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Polonium 216 [l]	1.72			pCi/g	14-Jun-05	0.3	0.18
HDRG21C6	Soil	BRC-BKG-09B-4-6	Polonium 218 [m]	0.784 J	J	k	pCi/g	14-Jun-05	0.13	0.188
F5F160308020	Soil	BRC-BKG-09B-4-6	Potassium 40	22.8			pCi/g	14-Jun-05	3.8	1.2
F5F160308020	Soil	BRC-BKG-09B-4-6	Protactinium 234	-0.29 U			pCi/g	14-Jun-05	0.18	0.27
F5F160308020	Soil	BRC-BKG-09B-4-6	Radium 223 [n]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Radium 224 [o]	1.72			pCi/g	14-Jun-05	0.3	0.18
HDRG21C6	Soil	BRC-BKG-09B-4-6	Radium 226	0.784 J	J	k	pCi/g	14-Jun-05	0.13	0.188
HDRG21C7	Soil	BRC-BKG-09B-4-6	Radium 228	1.66 J	J	k	pCi/g	14-Jun-05	0.23	0.705
F5F160308020	Soil	BRC-BKG-09B-4-6	Thallium 207 [p]	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Thallium 208	0.52			pCi/g	14-Jun-05	0.15	0.12
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 227	0.4 U			pCi/g	14-Jun-05	0.49	0.93
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 228	1.98			pCi/g	14-Jun-05	0.44	0.32
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 230	1.04			pCi/g	14-Jun-05	0.26	0.12
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 231	0.057 U			pCi/g	14-Jun-05	0.069	0.087
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 232	1.74			pCi/g	14-Jun-05	0.35	0.07

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308020	Soil	BRC-BKG-09B-4-6	Thorium 234	0.95 U			pCi/g	14-Jun-05	0.73	1.4
F5F160308020	Soil	BRC-BKG-09B-4-6	Uranium 233/234	0.94 J	U	b	pCi/g	14-Jun-05	0.23	0.11
F5F160308020	Soil	BRC-BKG-09B-4-6	Uranium 235	0.057 U			pCi/g	14-Jun-05	0.069	0.087
F5F160308020	Soil	BRC-BKG-09B-4-6	Uranium 238	0.93 J	J	k	pCi/g	14-Jun-05	0.23	0.08
F5F160308020	Soil	BRC-BKG-09B-4-6	Moisture (%)	4.3			percent	14-Jun-05		
F5F160308020	Soil	BRC-BKG-09B-4-6	Aluminum	15300 NE	J	j	mg/kg	14-Jun-05		2
F5F160308020	Soil	BRC-BKG-09B-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308020	Soil	BRC-BKG-09B-4-6	Arsenic	4.5			mg/kg	14-Jun-05		0.1278
F5F160308020	Soil	BRC-BKG-09B-4-6	Barium	240 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308020	Soil	BRC-BKG-09B-4-6	Beryllium	0.47 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308020	Soil	BRC-BKG-09B-4-6	Boron	9.1	J+	b	mg/kg	14-Jun-05		3.2
F5F160308020	Soil	BRC-BKG-09B-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308020	Soil	BRC-BKG-09B-4-6	Calcium	49200 N			mg/kg	14-Jun-05		1.028
F5F160308020	Soil	BRC-BKG-09B-4-6	Chromium	9.7			mg/kg	14-Jun-05		0.1841
F5F160308020	Soil	BRC-BKG-09B-4-6	Cobalt	11.1 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308020	Soil	BRC-BKG-09B-4-6	Copper	19.6 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308020	Soil	BRC-BKG-09B-4-6	Iron	14200 N			mg/kg	14-Jun-05		1.173
F5F160308020	Soil	BRC-BKG-09B-4-6	Lead	9.8			mg/kg	14-Jun-05		0.0506
F5F160308020	Soil	BRC-BKG-09B-4-6	Lithium	15.8			mg/kg	14-Jun-05		0.2425
F5F160308020	Soil	BRC-BKG-09B-4-6	Magnesium	11600 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308020	Soil	BRC-BKG-09B-4-6	Manganese	383 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308020	Soil	BRC-BKG-09B-4-6	Mercury	0.019 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308020	Soil	BRC-BKG-09B-4-6	Molybdenum	0.35 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308020	Soil	BRC-BKG-09B-4-6	Nickel	18.1 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308020	Soil	BRC-BKG-09B-4-6	Niobium	N U	UJ-	e	mg/kg	14-Jun-05		1.015
F5F160308020	Soil	BRC-BKG-09B-4-6	Palladium	0.62			mg/kg	14-Jun-05		0.0765
F5F160308020	Soil	BRC-BKG-09B-4-6	Phosphorus	1060 N			mg/kg	14-Jun-05		1.913
F5F160308020	Soil	BRC-BKG-09B-4-6	Platinum	0.099 B	J	g	mg/kg	14-Jun-05		0.0435
F5F160308020	Soil	BRC-BKG-09B-4-6	Potassium	2340 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308020	Soil	BRC-BKG-09B-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308020	Soil	BRC-BKG-09B-4-6	Silicon	719 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308020	Soil	BRC-BKG-09B-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308020	Soil	BRC-BKG-09B-4-6	Sodium	413			mg/kg	14-Jun-05		7.567

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308020	Soil	BRC-BKG-09B-4-6	Strontium	364 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308020	Soil	BRC-BKG-09B-4-6	Thallium	0.71 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308020	Soil	BRC-BKG-09B-4-6	Tin	0.75 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308020	Soil	BRC-BKG-09B-4-6	Titanium	1010 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308020	Soil	BRC-BKG-09B-4-6	Tungsten	0.84 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308020	Soil	BRC-BKG-09B-4-6	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308020	Soil	BRC-BKG-09B-4-6	Vanadium	50.3 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308020	Soil	BRC-BKG-09B-4-6	Zinc	40.5			mg/kg	14-Jun-05		0.2207
F5F160308020	Soil	BRC-BKG-09B-4-6	Zirconium	146 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308021	Soil	BRC-BKG-09B-9-11	Chloride	26			mg/kg	14-Jun-05		0.25
F5F160308021	Soil	BRC-BKG-09B-9-11	Fluoride	1	U	b	mg/kg	14-Jun-05		0.051
F5F160308021	Soil	BRC-BKG-09B-9-11	Nitrate	10.4	J	h	mg/kg	14-Jun-05		0.1
F5F160308021	Soil	BRC-BKG-09B-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308021	Soil	BRC-BKG-09B-9-11	Sulfate	63.7			mg/kg	14-Jun-05		0.612
F5F160308021	Soil	BRC-BKG-09B-9-11	CEC	9.2			meq/100g	14-Jun-05		
F5F160308021	Soil	BRC-BKG-09B-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308021	Soil	BRC-BKG-09B-9-11	pH (solid)	8.6	J	h	none	14-Jun-05		
F5F160308021	Soil	BRC-BKG-09B-9-11	Actinium 227 [d]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Actinium 228	2			pCi/g	14-Jun-05	0.75	0.41
F5F160308021	Soil	BRC-BKG-09B-9-11	Bismuth 210 [e]	0.9 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308021	Soil	BRC-BKG-09B-9-11	Bismuth 211 [f]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Bismuth 212	1.32			pCi/g	14-Jun-05	0.67	0.87
F5F160308021	Soil	BRC-BKG-09B-9-11	Bismuth 214	1			pCi/g	14-Jun-05	0.27	0.39
F5F160308021	Soil	BRC-BKG-09B-9-11	Cobalt 57	0.025 U			pCi/g	14-Jun-05	0.031	0.054
F5F160308021	Soil	BRC-BKG-09B-9-11	Cobalt 60	0.014 U			pCi/g	14-Jun-05	0.054	0.1
F5F160308021	Soil	BRC-BKG-09B-9-11	Lead 210	0.9 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308021	Soil	BRC-BKG-09B-9-11	Lead 211 [g]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Lead 212	1.64			pCi/g	14-Jun-05	0.28	0.21
F5F160308021	Soil	BRC-BKG-09B-9-11	Lead 214	1.1			pCi/g	14-Jun-05	0.24	0.17
F5F160308021	Soil	BRC-BKG-09B-9-11	Polonium 210 [h]	0.9 U			pCi/g	14-Jun-05	1.2	2.2
F5F160308021	Soil	BRC-BKG-09B-9-11	Polonium 212 [i]	0.85			pCi/g	14-Jun-05	0.43	0.56
F5F160308021	Soil	BRC-BKG-09B-9-11	Polonium 214 [j]	1			pCi/g	14-Jun-05	0.26	0.17
F5F160308021	Soil	BRC-BKG-09B-9-11	Polonium 215 [k]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308021	Soil	BRC-BKG-09B-9-11	Polonium 216 [l]	1.64			pCi/g	14-Jun-05	0.28	0.21
HDRG31C4	Soil	BRC-BKG-09B-9-11	Polonium 218 [m]	1.54			pCi/g	14-Jun-05	0.19	0.109
F5F160308021	Soil	BRC-BKG-09B-9-11	Potassium 40	27			pCi/g	14-Jun-05	4	1.1
F5F160308021	Soil	BRC-BKG-09B-9-11	Protactinium 234	0.13 U			pCi/g	14-Jun-05	0.18	0.28
F5F160308021	Soil	BRC-BKG-09B-9-11	Radium 223 [n]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Radium 224 [o]	1.64			pCi/g	14-Jun-05	0.28	0.21
HDRG31C4	Soil	BRC-BKG-09B-9-11	Radium 226	1.54			pCi/g	14-Jun-05	0.19	0.109
HDRG31C5	Soil	BRC-BKG-09B-9-11	Radium 228	2.18			pCi/g	14-Jun-05	0.27	0.729
F5F160308021	Soil	BRC-BKG-09B-9-11	Thallium 207 [p]	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Thallium 208	0.59			pCi/g	14-Jun-05	0.15	0.1
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 227	-0.33 U			pCi/g	14-Jun-05	0.44	0.73
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 228	1.78			pCi/g	14-Jun-05	0.35	0.14
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 230	1.69			pCi/g	14-Jun-05	0.33	0.07
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 231	0.016 U			pCi/g	14-Jun-05	0.052	0.094
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 232	1.85			pCi/g	14-Jun-05	0.34	0.05
F5F160308021	Soil	BRC-BKG-09B-9-11	Thorium 234	2.08			pCi/g	14-Jun-05	0.68	1.2
F5F160308021	Soil	BRC-BKG-09B-9-11	Uranium 233/234	1.25	J+	b	pCi/g	14-Jun-05	0.28	0.08
F5F160308021	Soil	BRC-BKG-09B-9-11	Uranium 235	0.016 U			pCi/g	14-Jun-05	0.052	0.094
F5F160308021	Soil	BRC-BKG-09B-9-11	Uranium 238	1.2			pCi/g	14-Jun-05	0.27	0.07
F5F160308021	Soil	BRC-BKG-09B-9-11	Moisture (%)	2.8			percent	14-Jun-05		
F5F160308021	Soil	BRC-BKG-09B-9-11	Aluminum	8560 NE	J	j	mg/kg	14-Jun-05		2
F5F160308021	Soil	BRC-BKG-09B-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308021	Soil	BRC-BKG-09B-9-11	Arsenic	4.2			mg/kg	14-Jun-05		0.1278
F5F160308021	Soil	BRC-BKG-09B-9-11	Barium	146 N	J	e	mg/kg	14-Jun-05		0.152
F5F160308021	Soil	BRC-BKG-09B-9-11	Beryllium	0.29 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308021	Soil	BRC-BKG-09B-9-11	Boron	3.9 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308021	Soil	BRC-BKG-09B-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308021	Soil	BRC-BKG-09B-9-11	Calcium	31900 N			mg/kg	14-Jun-05		1.028
F5F160308021	Soil	BRC-BKG-09B-9-11	Chromium	7.6			mg/kg	14-Jun-05		0.1841
F5F160308021	Soil	BRC-BKG-09B-9-11	Cobalt	8.2 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308021	Soil	BRC-BKG-09B-9-11	Copper	22.5 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308021	Soil	BRC-BKG-09B-9-11	Iron	11700 N			mg/kg	14-Jun-05		1.173
F5F160308021	Soil	BRC-BKG-09B-9-11	Lead	5.9			mg/kg	14-Jun-05		0.0506

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308021	Soil	BRC-BKG-09B-9-11	Lithium	13.4			mg/kg	14-Jun-05		0.2425
F5F160308021	Soil	BRC-BKG-09B-9-11	Magnesium	8450 NE	J	j	mg/kg	14-Jun-05		1.176
F5F160308021	Soil	BRC-BKG-09B-9-11	Manganese	327 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308021	Soil	BRC-BKG-09B-9-11	Mercury	0.017 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308021	Soil	BRC-BKG-09B-9-11	Molybdenum	0.45 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308021	Soil	BRC-BKG-09B-9-11	Nickel	14.7 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308021	Soil	BRC-BKG-09B-9-11	Niobium	N U	UJ-	e	mg/kg	14-Jun-05		1.015
F5F160308021	Soil	BRC-BKG-09B-9-11	Palladium	0.29			mg/kg	14-Jun-05		0.0765
F5F160308021	Soil	BRC-BKG-09B-9-11	Phosphorus	1240 N			mg/kg	14-Jun-05		1.913
F5F160308021	Soil	BRC-BKG-09B-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308021	Soil	BRC-BKG-09B-9-11	Potassium	1410 E	J	j	mg/kg	14-Jun-05		2.079
F5F160308021	Soil	BRC-BKG-09B-9-11	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308021	Soil	BRC-BKG-09B-9-11	Silicon	449 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308021	Soil	BRC-BKG-09B-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308021	Soil	BRC-BKG-09B-9-11	Sodium	196			mg/kg	14-Jun-05		7.567
F5F160308021	Soil	BRC-BKG-09B-9-11	Strontium	149 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308021	Soil	BRC-BKG-09B-9-11	Thallium	1.1			mg/kg	14-Jun-05		0.5428
F5F160308021	Soil	BRC-BKG-09B-9-11	Tin	0.46 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308021	Soil	BRC-BKG-09B-9-11	Titanium	597 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308021	Soil	BRC-BKG-09B-9-11	Tungsten	0.93 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308021	Soil	BRC-BKG-09B-9-11	Uranium	0.93 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308021	Soil	BRC-BKG-09B-9-11	Vanadium	38.8 E	J	j	mg/kg	14-Jun-05		0.5535
F5F160308021	Soil	BRC-BKG-09B-9-11	Zinc	27.8			mg/kg	14-Jun-05		0.2207
F5F160308021	Soil	BRC-BKG-09B-9-11	Zirconium	134 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Chloride	1.6 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Sulfate	5.1			mg/kg	14-Jun-05		0.612
F5F160308022	Soil	BRC-BKG-09C-0-0.5	CEC	14.9			meq/100g	14-Jun-05		
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308022	Soil	BRC-BKG-09C-0-0.5	pH (solid)	8.9	J	h	none	14-Jun-05		
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Actinium 227 [d]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Actinium 228	1.71			pCi/g	14-Jun-05	0.6	0.47
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Bismuth 210 [e]	0.5 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Bismuth 211 [f]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Bismuth 212	0.9			pCi/g	14-Jun-05	0.6	0.79
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Bismuth 214	0.73			pCi/g	14-Jun-05	0.21	0.39
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Cobalt 57	-0.016 U			pCi/g	14-Jun-05	0.032	0.053
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Cobalt 60	-0.025 U			pCi/g	14-Jun-05	0.056	0.099
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lead 210	0.5 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lead 211 [g]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lead 212	1.3			pCi/g	14-Jun-05	0.23	0.17
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lead 214	0.85			pCi/g	14-Jun-05	0.21	0.16
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Polonium 210 [h]	0.5 U			pCi/g	14-Jun-05	1.2	2.3
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Polonium 212 [i]	0.58			pCi/g	14-Jun-05	0.39	0.51
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Polonium 214 [j]	0.73			pCi/g	14-Jun-05	0.21	0.15
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Polonium 215 [k]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Polonium 216 [l]	1.3			pCi/g	14-Jun-05	0.23	0.17
HDRG51FL	Soil	BRC-BKG-09C-0-0.5	Polonium 218 [m]	1.14	J	n	pCi/g	14-Jun-05	0.15	0.119
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Potassium 40	23.7			pCi/g	14-Jun-05	3.6	1
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Protactinium 234	0.01 U			pCi/g	14-Jun-05	0.15	0.26
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Radium 223 [n]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Radium 224 [o]	1.3			pCi/g	14-Jun-05	0.23	0.17
HDRG51FL	Soil	BRC-BKG-09C-0-0.5	Radium 226	1.14	J	n	pCi/g	14-Jun-05	0.15	0.119
HDRG51FM	Soil	BRC-BKG-09C-0-0.5	Radium 228	1.97 J	J	k	pCi/g	14-Jun-05	0.25	0.649
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thallium 207 [p]	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thallium 208	0.47			pCi/g	14-Jun-05	0.14	0.09
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 227	-0.06 U			pCi/g	14-Jun-05	0.43	0.76
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 228	1.9			pCi/g	14-Jun-05	0.38	0.25
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 230	1.2			pCi/g	14-Jun-05	0.26	0.1
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 231	0.054 J	U	b	pCi/g	14-Jun-05	0.06	0.036
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 232	1.54			pCi/g	14-Jun-05	0.3	0.08
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thorium 234	0.73 U			pCi/g	14-Jun-05	0.65	1.2
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Uranium 233/234	0.79 J	U	b	pCi/g	14-Jun-05	0.2	0.06
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Uranium 235	0.054 J	J	k	pCi/g	14-Jun-05	0.06	0.036

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Uranium 238	0.69 J	J	k	pCi/g	14-Jun-05	0.18	0.05
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Moisture (%)	1.3			percent	14-Jun-05		
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Aluminum	10400 NE	J	j	mg/kg	14-Jun-05		2
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Arsenic	3.7			mg/kg	14-Jun-05		0.1278
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Barium	190 NE	J	j	mg/kg	14-Jun-05		0.152
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Beryllium	0.45 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Boron	4.9 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Calcium	22700 NE	J	j	mg/kg	14-Jun-05		1.028
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Chromium	11.3			mg/kg	14-Jun-05		0.1841
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Cobalt	9.9 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Copper	19.6 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Iron	17400 NE	J	j	mg/kg	14-Jun-05		1.173
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lead	11.1			mg/kg	14-Jun-05		0.0506
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Lithium	13.2			mg/kg	14-Jun-05		0.2425
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Magnesium	10300 E	J	j	mg/kg	14-Jun-05		1.176
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Manganese	445 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Mercury	0.034			mg/kg	14-Jun-05		0.0072
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Molybdenum	0.51 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Nickel	18.9 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Niobium	2.5 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Palladium	0.45			mg/kg	14-Jun-05		0.0765
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Phosphorus	1540 NE	J	j	mg/kg	14-Jun-05		1.913
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Potassium	1800 NE	J	j	mg/kg	14-Jun-05		2.079
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Silicon	620 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Sodium	357 E	J	j	mg/kg	14-Jun-05		7.567
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Strontium	203 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Thallium	1.7			mg/kg	14-Jun-05		0.5428
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Tin	0.69 B	J	g	mg/kg	14-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Titanium	864 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Tungsten	1.5 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Uranium	0.97 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Vanadium	46.1 NE	J	j	mg/kg	14-Jun-05		0.5535
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Zinc	63.6 N			mg/kg	14-Jun-05		0.2207
F5F160308022	Soil	BRC-BKG-09C-0-0.5	Zirconium	145 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308024	Soil	BRC-BKG-09C-4-6	Chloride	2.4			mg/kg	14-Jun-05		0.25
F5F160308024	Soil	BRC-BKG-09C-4-6	Fluoride	1.2	U	b	mg/kg	14-Jun-05		0.051
F5F160308024	Soil	BRC-BKG-09C-4-6	Nitrate	1.8	J	h	mg/kg	14-Jun-05		0.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308024	Soil	BRC-BKG-09C-4-6	Sulfate	108			mg/kg	14-Jun-05		0.612
F5F160308024	Soil	BRC-BKG-09C-4-6	CEC	19.5			meq/100g	14-Jun-05		
F5F160308024	Soil	BRC-BKG-09C-4-6	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308024	Soil	BRC-BKG-09C-4-6	pH (solid)	8.8	J	h	none	14-Jun-05		
F5F160308024	Soil	BRC-BKG-09C-4-6	Actinium 227 [d]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Actinium 228	1.8			pCi/g	14-Jun-05	0.62	0.4
F5F160308024	Soil	BRC-BKG-09C-4-6	Bismuth 210 [e]	-0.1 U			pCi/g	14-Jun-05	1.2	2.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Bismuth 211 [f]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Bismuth 212	1.17			pCi/g	14-Jun-05	0.54	1.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Bismuth 214	0.82			pCi/g	14-Jun-05	0.25	0.39
F5F160308024	Soil	BRC-BKG-09C-4-6	Cobalt 57	-0.008 U			pCi/g	14-Jun-05	0.033	0.056
F5F160308024	Soil	BRC-BKG-09C-4-6	Cobalt 60	0.002 U			pCi/g	14-Jun-05	0.051	0.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Lead 210	-0.1 U			pCi/g	14-Jun-05	1.2	2.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Lead 211 [g]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Lead 212	1.43			pCi/g	14-Jun-05	0.25	0.2
F5F160308024	Soil	BRC-BKG-09C-4-6	Lead 214	0.72			pCi/g	14-Jun-05	0.19	0.16
F5F160308024	Soil	BRC-BKG-09C-4-6	Polonium 210 [h]	-0.1 U			pCi/g	14-Jun-05	1.2	2.1
F5F160308024	Soil	BRC-BKG-09C-4-6	Polonium 212 [i]	0.75			pCi/g	14-Jun-05	0.34	0.73
F5F160308024	Soil	BRC-BKG-09C-4-6	Polonium 214 [j]	0.82			pCi/g	14-Jun-05	0.25	0.18
F5F160308024	Soil	BRC-BKG-09C-4-6	Polonium 215 [k]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Polonium 216 [l]	1.43			pCi/g	14-Jun-05	0.25	0.2
HDRHD1C4	Soil	BRC-BKG-09C-4-6	Polonium 218 [m]	0.97 J	J	k	pCi/g	14-Jun-05	0.13	0.0996
F5F160308024	Soil	BRC-BKG-09C-4-6	Potassium 40	22.9			pCi/g	14-Jun-05	3.6	1.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308024	Soil	BRC-BKG-09C-4-6	Protactinium 234	-0.1 U			pCi/g	14-Jun-05	0.16	0.27
F5F160308024	Soil	BRC-BKG-09C-4-6	Radium 223 [n]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Radium 224 [o]	1.43			pCi/g	14-Jun-05	0.25	0.2
HDRHD1C4	Soil	BRC-BKG-09C-4-6	Radium 226	0.97 J	J	k	pCi/g	14-Jun-05	0.13	0.0996
HDRHD1C5	Soil	BRC-BKG-09C-4-6	Radium 228	1.37 J	J	k	pCi/g	14-Jun-05	0.21	0.621
F5F160308024	Soil	BRC-BKG-09C-4-6	Thallium 207 [p]	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Thallium 208	0.61			pCi/g	14-Jun-05	0.16	0.09
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 227	-0.29 U			pCi/g	14-Jun-05	0.47	0.77
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 228	1.67			pCi/g	14-Jun-05	0.32	0.15
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 230	0.75 J	J	k	pCi/g	14-Jun-05	0.2	0.09
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 231	0.052 U			pCi/g	14-Jun-05	0.071	0.096
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 232	1.4			pCi/g	14-Jun-05	0.27	0.07
F5F160308024	Soil	BRC-BKG-09C-4-6	Thorium 234	0.32 U			pCi/g	14-Jun-05	0.81	1.2
F5F160308024	Soil	BRC-BKG-09C-4-6	Uranium 233/234	0.76 J	U	b	pCi/g	14-Jun-05	0.21	0.11
F5F160308024	Soil	BRC-BKG-09C-4-6	Uranium 235	0.052 U			pCi/g	14-Jun-05	0.071	0.096
F5F160308024	Soil	BRC-BKG-09C-4-6	Uranium 238	0.87 J	J	k	pCi/g	14-Jun-05	0.22	0.07
F5F160308024	Soil	BRC-BKG-09C-4-6	Moisture (%)	5.8			percent	14-Jun-05		
F5F160308024	Soil	BRC-BKG-09C-4-6	Aluminum	12600 NE	J	j	mg/kg	14-Jun-05		2
F5F160308024	Soil	BRC-BKG-09C-4-6	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308024	Soil	BRC-BKG-09C-4-6	Arsenic	3.9			mg/kg	14-Jun-05		0.1278
F5F160308024	Soil	BRC-BKG-09C-4-6	Barium	264 NE	J	j	mg/kg	14-Jun-05		0.152
F5F160308024	Soil	BRC-BKG-09C-4-6	Beryllium	0.49 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308024	Soil	BRC-BKG-09C-4-6	Boron	6.8	J+	b	mg/kg	14-Jun-05		3.2
F5F160308024	Soil	BRC-BKG-09C-4-6	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308024	Soil	BRC-BKG-09C-4-6	Calcium	35600 NE	J	j	mg/kg	14-Jun-05		1.028
F5F160308024	Soil	BRC-BKG-09C-4-6	Chromium	11.6			mg/kg	14-Jun-05		0.1841
F5F160308024	Soil	BRC-BKG-09C-4-6	Cobalt	12.2 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308024	Soil	BRC-BKG-09C-4-6	Copper	21.2 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308024	Soil	BRC-BKG-09C-4-6	Iron	16600 NE	J	j	mg/kg	14-Jun-05		1.173
F5F160308024	Soil	BRC-BKG-09C-4-6	Lead	8.8			mg/kg	14-Jun-05		0.0506
F5F160308024	Soil	BRC-BKG-09C-4-6	Lithium	15.4			mg/kg	14-Jun-05		0.2425
F5F160308024	Soil	BRC-BKG-09C-4-6	Magnesium	12700 E	J	j	mg/kg	14-Jun-05		1.176
F5F160308024	Soil	BRC-BKG-09C-4-6	Manganese	556 NE	J	j	mg/kg	14-Jun-05		0.0131

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308024	Soil	BRC-BKG-09C-4-6	Mercury	0.027 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308024	Soil	BRC-BKG-09C-4-6	Molybdenum	0.55 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308024	Soil	BRC-BKG-09C-4-6	Nickel	22.7 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308024	Soil	BRC-BKG-09C-4-6	Niobium	1.4 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308024	Soil	BRC-BKG-09C-4-6	Palladium	0.5			mg/kg	14-Jun-05		0.0765
F5F160308024	Soil	BRC-BKG-09C-4-6	Phosphorus	1460 NE	J	j	mg/kg	14-Jun-05		1.913
F5F160308024	Soil	BRC-BKG-09C-4-6	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308024	Soil	BRC-BKG-09C-4-6	Potassium	2080 NE	J	j	mg/kg	14-Jun-05		2.079
F5F160308024	Soil	BRC-BKG-09C-4-6	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308024	Soil	BRC-BKG-09C-4-6	Silicon	497 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308024	Soil	BRC-BKG-09C-4-6	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308024	Soil	BRC-BKG-09C-4-6	Sodium	451 E	J	j	mg/kg	14-Jun-05		7.567
F5F160308024	Soil	BRC-BKG-09C-4-6	Strontium	229 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308024	Soil	BRC-BKG-09C-4-6	Thallium	1.1 B	U	b	mg/kg	14-Jun-05		0.5428
F5F160308024	Soil	BRC-BKG-09C-4-6	Tin	0.63 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308024	Soil	BRC-BKG-09C-4-6	Titanium	879 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308024	Soil	BRC-BKG-09C-4-6	Tungsten	1.9 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308024	Soil	BRC-BKG-09C-4-6	Uranium	1.1			mg/kg	14-Jun-05		0.038
F5F160308024	Soil	BRC-BKG-09C-4-6	Vanadium	48 NE	J	j	mg/kg	14-Jun-05		0.5535
F5F160308024	Soil	BRC-BKG-09C-4-6	Zinc	45 N			mg/kg	14-Jun-05		0.2207
F5F160308024	Soil	BRC-BKG-09C-4-6	Zirconium	151 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F160308025	Soil	BRC-BKG-09C-9-11	Chloride	4.1			mg/kg	14-Jun-05		0.25
F5F160308025	Soil	BRC-BKG-09C-9-11	Fluoride	1.6	U	b	mg/kg	14-Jun-05		0.051
F5F160308025	Soil	BRC-BKG-09C-9-11	Nitrate	3.2	J	h	mg/kg	14-Jun-05		0.1
F5F160308025	Soil	BRC-BKG-09C-9-11	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308025	Soil	BRC-BKG-09C-9-11	Sulfate	22.6			mg/kg	14-Jun-05		0.612
F5F160308025	Soil	BRC-BKG-09C-9-11	CEC	18.2			meq/100g	14-Jun-05		
F5F160308025	Soil	BRC-BKG-09C-9-11	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308025	Soil	BRC-BKG-09C-9-11	pH (solid)	8.9	J	h	none	14-Jun-05		
F5F160308025	Soil	BRC-BKG-09C-9-11	Actinium 227 [d]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Actinium 228	1.6			pCi/g	14-Jun-05	0.56	0.31
F5F160308025	Soil	BRC-BKG-09C-9-11	Bismuth 210 [e]	1.3 U			pCi/g	14-Jun-05	0.98	1.9
F5F160308025	Soil	BRC-BKG-09C-9-11	Bismuth 211 [f]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308025	Soil	BRC-BKG-09C-9-11	Bismuth 212	1.39			pCi/g	14-Jun-05	0.69	0.66
F5F160308025	Soil	BRC-BKG-09C-9-11	Bismuth 214	0.83			pCi/g	14-Jun-05	0.21	0.37
F5F160308025	Soil	BRC-BKG-09C-9-11	Cobalt 57	0.04 U			pCi/g	14-Jun-05	0.028	0.052
F5F160308025	Soil	BRC-BKG-09C-9-11	Cobalt 60	-0.017 U			pCi/g	14-Jun-05	0.051	0.095
F5F160308025	Soil	BRC-BKG-09C-9-11	Lead 210	1.3 U			pCi/g	14-Jun-05	0.98	1.9
F5F160308025	Soil	BRC-BKG-09C-9-11	Lead 211 [g]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Lead 212	1.58			pCi/g	14-Jun-05	0.24	0.12
F5F160308025	Soil	BRC-BKG-09C-9-11	Lead 214	0.83			pCi/g	14-Jun-05	0.19	0.17
F5F160308025	Soil	BRC-BKG-09C-9-11	Polonium 210 [h]	1.3 U			pCi/g	14-Jun-05	0.98	1.9
F5F160308025	Soil	BRC-BKG-09C-9-11	Polonium 212 [i]	0.89			pCi/g	14-Jun-05	0.44	0.42
F5F160308025	Soil	BRC-BKG-09C-9-11	Polonium 214 [j]	0.83			pCi/g	14-Jun-05	0.2	0.18
F5F160308025	Soil	BRC-BKG-09C-9-11	Polonium 215 [k]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Polonium 216 [l]	1.58			pCi/g	14-Jun-05	0.24	0.12
HDRHE1DG	Soil	BRC-BKG-09C-9-11	Polonium 218 [m]	0.938 J	J	k	pCi/g	14-Jun-05	0.12	0.139
F5F160308025	Soil	BRC-BKG-09C-9-11	Potassium 40	21.9			pCi/g	14-Jun-05	3.2	0.7
F5F160308025	Soil	BRC-BKG-09C-9-11	Protactinium 234	-0.03 U			pCi/g	14-Jun-05	0.16	0.23
F5F160308025	Soil	BRC-BKG-09C-9-11	Radium 223 [n]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Radium 224 [o]	1.58			pCi/g	14-Jun-05	0.24	0.12
HDRHE1DG	Soil	BRC-BKG-09C-9-11	Radium 226	0.938 J	J	k	pCi/g	14-Jun-05	0.12	0.139
HDRHE1DH	Soil	BRC-BKG-09C-9-11	Radium 228	2.18			pCi/g	14-Jun-05	0.27	0.623
F5F160308025	Soil	BRC-BKG-09C-9-11	Thallium 207 [p]	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Thallium 208	0.55			pCi/g	14-Jun-05	0.13	0.09
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 227	-0.1 U			pCi/g	14-Jun-05	0.39	0.68
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 228	2.13			pCi/g	14-Jun-05	0.39	0.17
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 230	1.39			pCi/g	14-Jun-05	0.29	0.06
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 231	0.041 U			pCi/g	14-Jun-05	0.065	0.093
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 232	1.69			pCi/g	14-Jun-05	0.33	0.08
F5F160308025	Soil	BRC-BKG-09C-9-11	Thorium 234	1.44			pCi/g	14-Jun-05	0.47	0.9
F5F160308025	Soil	BRC-BKG-09C-9-11	Uranium 233/234	1.31			pCi/g	14-Jun-05	0.28	0.1
F5F160308025	Soil	BRC-BKG-09C-9-11	Uranium 235	0.041 U			pCi/g	14-Jun-05	0.065	0.093
F5F160308025	Soil	BRC-BKG-09C-9-11	Uranium 238	0.94 J	J	k	pCi/g	14-Jun-05	0.23	0.09
F5F160308025	Soil	BRC-BKG-09C-9-11	Moisture (%)	4.7			percent	14-Jun-05		
F5F160308025	Soil	BRC-BKG-09C-9-11	Aluminum	11200 NE	J	j	mg/kg	14-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308025	Soil	BRC-BKG-09C-9-11	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308025	Soil	BRC-BKG-09C-9-11	Arsenic	3.6			mg/kg	14-Jun-05		0.1278
F5F160308025	Soil	BRC-BKG-09C-9-11	Barium	154 NE	J	j	mg/kg	14-Jun-05		0.152
F5F160308025	Soil	BRC-BKG-09C-9-11	Beryllium	0.42 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308025	Soil	BRC-BKG-09C-9-11	Boron	5.1 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308025	Soil	BRC-BKG-09C-9-11	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308025	Soil	BRC-BKG-09C-9-11	Calcium	17900 NE	J	j	mg/kg	14-Jun-05		1.028
F5F160308025	Soil	BRC-BKG-09C-9-11	Chromium	8.2			mg/kg	14-Jun-05		0.1841
F5F160308025	Soil	BRC-BKG-09C-9-11	Cobalt	11.3 E	J	j	mg/kg	14-Jun-05		0.064
F5F160308025	Soil	BRC-BKG-09C-9-11	Copper	21.7 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308025	Soil	BRC-BKG-09C-9-11	Iron	14900 NE	J	j	mg/kg	14-Jun-05		1.173
F5F160308025	Soil	BRC-BKG-09C-9-11	Lead	5.6			mg/kg	14-Jun-05		0.0506
F5F160308025	Soil	BRC-BKG-09C-9-11	Lithium	14.1			mg/kg	14-Jun-05		0.2425
F5F160308025	Soil	BRC-BKG-09C-9-11	Magnesium	11600 E	J	j	mg/kg	14-Jun-05		1.176
F5F160308025	Soil	BRC-BKG-09C-9-11	Manganese	465 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308025	Soil	BRC-BKG-09C-9-11	Mercury	0.011 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308025	Soil	BRC-BKG-09C-9-11	Molybdenum	0.66 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308025	Soil	BRC-BKG-09C-9-11	Nickel	22.1 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308025	Soil	BRC-BKG-09C-9-11	Niobium	1.1 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308025	Soil	BRC-BKG-09C-9-11	Palladium	0.49			mg/kg	14-Jun-05		0.0765
F5F160308025	Soil	BRC-BKG-09C-9-11	Phosphorus	1880 NE	J	j	mg/kg	14-Jun-05		1.913
F5F160308025	Soil	BRC-BKG-09C-9-11	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308025	Soil	BRC-BKG-09C-9-11	Potassium	1300 NE	J	j	mg/kg	14-Jun-05		2.079
F5F160308025	Soil	BRC-BKG-09C-9-11	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308025	Soil	BRC-BKG-09C-9-11	Silicon	428 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308025	Soil	BRC-BKG-09C-9-11	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308025	Soil	BRC-BKG-09C-9-11	Sodium	329 E	J	j	mg/kg	14-Jun-05		7.567
F5F160308025	Soil	BRC-BKG-09C-9-11	Strontium	206 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308025	Soil	BRC-BKG-09C-9-11	Thallium	1.2			mg/kg	14-Jun-05		0.5428
F5F160308025	Soil	BRC-BKG-09C-9-11	Tin	0.59 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308025	Soil	BRC-BKG-09C-9-11	Titanium	858 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308025	Soil	BRC-BKG-09C-9-11	Tungsten	1.5 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308025	Soil	BRC-BKG-09C-9-11	Uranium	1.3			mg/kg	14-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308025	Soil	BRC-BKG-09C-9-11	Vanadium	56 NE	J	j	mg/kg	14-Jun-05		0.5535
F5F160308025	Soil	BRC-BKG-09C-9-11	Zinc	34.9 N			mg/kg	14-Jun-05		0.2207
F5F160308025	Soil	BRC-BKG-09C-9-11	Zirconium	171 NE	J	j	mg/kg	14-Jun-05		0.0874
HD3CH1C4	Soil	BRC-BKG-11A 9-11	Polonium 218 [m]	1.65			pCi/g	17-Jun-05	0.22	0.179
HD3CH1C4	Soil	BRC-BKG-11A 9-11	Radium 226	1.65			pCi/g	17-Jun-05	0.22	0.179
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Chloride	0.72 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Nitrate	0.18 B	J	h, g	mg/kg	17-Jun-05		0.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Sulfate	1.2 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233004	Soil	BRC-BKG-11A-0-0.5	CEC	10.3			meq/100g	17-Jun-05		
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233004	Soil	BRC-BKG-11A-0-0.5	pH (solid)	8.6	J	h	none	17-Jun-05		
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Actinium 227 [d]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Actinium 228	2.31			pCi/g	17-Jun-05	0.77	0.34
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Bismuth 210 [e]	1.1 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Bismuth 211 [f]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Bismuth 212	0.56 U			pCi/g	17-Jun-05	0.65	0.75
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Bismuth 214	0.94			pCi/g	17-Jun-05	0.25	0.19
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Cobalt 57	0.018 U			pCi/g	17-Jun-05	0.033	0.059
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Cobalt 60	-0.004 U			pCi/g	17-Jun-05	0.051	0.098
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lead 210	1.1 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lead 211 [g]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lead 212	1.56			pCi/g	17-Jun-05	0.26	0.17
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lead 214	0.78			pCi/g	17-Jun-05	0.2	0.18
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Polonium 210 [h]	1.1 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Polonium 212 [i]	0.36 U			pCi/g	17-Jun-05	0.42	0.48
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Polonium 214 [j]	0.94			pCi/g	17-Jun-05	0.25	0.19
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Polonium 215 [k]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Polonium 216 [l]	1.56			pCi/g	17-Jun-05	0.26	0.17
HD3CD1C6	Soil	BRC-BKG-11A-0-0.5	Polonium 218 [m]	1.16	J	n	pCi/g	17-Jun-05	0.16	0.211
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Potassium 40	22.6			pCi/g	17-Jun-05	3.5	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Protactinium 234	-0.11 U			pCi/g	17-Jun-05	0.18	0.26

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Radium 223 [n]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Radium 224 [o]	1.56			pCi/g	17-Jun-05	0.26	0.17
HD3CD1C6	Soil	BRC-BKG-11A-0-0.5	Radium 226	1.16	J	n	pCi/g	17-Jun-05	0.16	0.211
HD3CD1C7	Soil	BRC-BKG-11A-0-0.5	Radium 228	3.2	R	e	pCi/g	17-Jun-05	0.35	0.821
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thallium 207 [p]	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thallium 208	0.59			pCi/g	17-Jun-05	0.14	0.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 227	0.26 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 228	1.92			pCi/g	17-Jun-05	0.38	0.16
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 230	1.06			pCi/g	17-Jun-05	0.26	0.11
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 231	0.13 J	U	b	pCi/g	17-Jun-05	0.1	0.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 232	1.7			pCi/g	17-Jun-05	0.34	0.06
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thorium 234	1.27			pCi/g	17-Jun-05	0.48	1.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Uranium 233/234	0.98 J	U	b	pCi/g	17-Jun-05	0.24	0.11
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Uranium 235	0.13 J	J	k	pCi/g	17-Jun-05	0.1	0.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Uranium 238	1.15			pCi/g	17-Jun-05	0.27	0.1
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Moisture (%)	0.88			percent	17-Jun-05		
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Aluminum	8220 NE	J	j	mg/kg	17-Jun-05		2
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Antimony	0.4 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Arsenic	4.2			mg/kg	17-Jun-05		0.1278
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Barium	185 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Beryllium	0.85			mg/kg	17-Jun-05		0.038
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Boron	4.9 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Calcium	19800 N			mg/kg	17-Jun-05		1.028
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Chromium	14.5			mg/kg	17-Jun-05		0.1841
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Cobalt	9.4 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Copper	19.5 N			mg/kg	17-Jun-05		0.2205
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Iron	16300 N			mg/kg	17-Jun-05		1.173
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lead	19.1 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Lithium	11.9			mg/kg	17-Jun-05		0.2425
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Magnesium	10300 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Manganese	747 N			mg/kg	17-Jun-05		0.0131
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Mercury	U			mg/kg	17-Jun-05		0.0072

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Molybdenum	0.77 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Nickel	17.8 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Niobium	1.3 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Palladium	0.34			mg/kg	17-Jun-05		0.0765
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Phosphorus	1530			mg/kg	17-Jun-05		1.913
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Potassium	1830 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Selenium	0.26 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Silicon	1040 N			mg/kg	17-Jun-05		0.5289
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Sodium	151			mg/kg	17-Jun-05		7.567
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Strontium	149			mg/kg	17-Jun-05		0.0735
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Thallium	1 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Tin	0.61 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Titanium	572 N			mg/kg	17-Jun-05		0.1175
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Tungsten	0.9 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Uranium	0.79 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Vanadium	43.9			mg/kg	17-Jun-05		0.5535
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Zinc	60.4			mg/kg	17-Jun-05		0.2207
F5F210233004	Soil	BRC-BKG-11A-0-0.5	Zirconium	119			mg/kg	17-Jun-05		0.0874
F5F210233005	Soil	BRC-BKG-11A-4-6	Chloride	33.1			mg/kg	17-Jun-05		0.25
F5F210233005	Soil	BRC-BKG-11A-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233005	Soil	BRC-BKG-11A-4-6	Nitrate	1.6	J	h	mg/kg	17-Jun-05		0.1
F5F210233005	Soil	BRC-BKG-11A-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233005	Soil	BRC-BKG-11A-4-6	Sulfate	45			mg/kg	17-Jun-05		0.612
F5F210233005	Soil	BRC-BKG-11A-4-6	CEC	12.5			meq/100g	17-Jun-05		
F5F210233005	Soil	BRC-BKG-11A-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233005	Soil	BRC-BKG-11A-4-6	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233005	Soil	BRC-BKG-11A-4-6	Actinium 227 [d]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Actinium 228	2.04			pCi/g	17-Jun-05	0.67	0.32
F5F210233005	Soil	BRC-BKG-11A-4-6	Bismuth 210 [e]	0.33 U			pCi/g	17-Jun-05	0.97	1.8
F5F210233005	Soil	BRC-BKG-11A-4-6	Bismuth 211 [f]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Bismuth 212	0.79 U			pCi/g	17-Jun-05	0.47	0.96

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233005	Soil	BRC-BKG-11A-4-6	Bismuth 214	0.88			pCi/g	17-Jun-05	0.21	0.13
F5F210233005	Soil	BRC-BKG-11A-4-6	Cobalt 57	0.009 U			pCi/g	17-Jun-05	0.026	0.046
F5F210233005	Soil	BRC-BKG-11A-4-6	Cobalt 60	-0.055 U			pCi/g	17-Jun-05	0.052	0.08
F5F210233005	Soil	BRC-BKG-11A-4-6	Lead 210	0.33 U			pCi/g	17-Jun-05	0.97	1.8
F5F210233005	Soil	BRC-BKG-11A-4-6	Lead 211 [g]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Lead 212	1.26			pCi/g	17-Jun-05	0.23	0.17
F5F210233005	Soil	BRC-BKG-11A-4-6	Lead 214	0.93			pCi/g	17-Jun-05	0.19	0.15
F5F210233005	Soil	BRC-BKG-11A-4-6	Polonium 210 [h]	0.33 U			pCi/g	17-Jun-05	0.97	1.8
F5F210233005	Soil	BRC-BKG-11A-4-6	Polonium 212 [i]	0.5 U			pCi/g	17-Jun-05	0.3	0.62
F5F210233005	Soil	BRC-BKG-11A-4-6	Polonium 214 [j]	0.88			pCi/g	17-Jun-05	0.2	0.13
F5F210233005	Soil	BRC-BKG-11A-4-6	Polonium 215 [k]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Polonium 216 [l]	1.26			pCi/g	17-Jun-05	0.23	0.17
HD3CF1C4	Soil	BRC-BKG-11A-4-6	Polonium 218 [m]	1.24			pCi/g	17-Jun-05	0.17	0.12
F5F210233005	Soil	BRC-BKG-11A-4-6	Potassium 40	20.9			pCi/g	17-Jun-05	3.3	0.9
F5F210233005	Soil	BRC-BKG-11A-4-6	Protactinium 234	-0.14 U			pCi/g	17-Jun-05	0.16	0.22
F5F210233005	Soil	BRC-BKG-11A-4-6	Radium 223 [n]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Radium 224 [o]	1.26			pCi/g	17-Jun-05	0.23	0.17
HD3CF1C4	Soil	BRC-BKG-11A-4-6	Radium 226	1.24			pCi/g	17-Jun-05	0.17	0.12
HD3CF1C5	Soil	BRC-BKG-11A-4-6	Radium 228	2.12	R	e	pCi/g	17-Jun-05	0.29	0.86
F5F210233005	Soil	BRC-BKG-11A-4-6	Thallium 207 [p]	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Thallium 208	0.57			pCi/g	17-Jun-05	0.13	0.07
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 227	-0.07 U			pCi/g	17-Jun-05	0.38	0.67
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 228	1.31			pCi/g	17-Jun-05	0.28	0.13
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 230	0.8 J	J	k	pCi/g	17-Jun-05	0.2	0.06
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 231	0.027 U			pCi/g	17-Jun-05	0.045	0.064
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 232	1.36			pCi/g	17-Jun-05	0.27	0.05
F5F210233005	Soil	BRC-BKG-11A-4-6	Thorium 234	1.24			pCi/g	17-Jun-05	0.59	1
F5F210233005	Soil	BRC-BKG-11A-4-6	Uranium 233/234	1.05	U	b	pCi/g	17-Jun-05	0.25	0.08
F5F210233005	Soil	BRC-BKG-11A-4-6	Uranium 235	0.027 U			pCi/g	17-Jun-05	0.045	0.064
F5F210233005	Soil	BRC-BKG-11A-4-6	Uranium 238	1.02			pCi/g	17-Jun-05	0.24	0.03
F5F210233005	Soil	BRC-BKG-11A-4-6	Moisture (%)	5.1			percent	17-Jun-05		
F5F210233005	Soil	BRC-BKG-11A-4-6	Aluminum	6520 NE	J	j	mg/kg	17-Jun-05		2
F5F210233005	Soil	BRC-BKG-11A-4-6	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233005	Soil	BRC-BKG-11A-4-6	Arsenic	4			mg/kg	17-Jun-05		0.1278
F5F210233005	Soil	BRC-BKG-11A-4-6	Barium	138 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233005	Soil	BRC-BKG-11A-4-6	Beryllium	0.77			mg/kg	17-Jun-05		0.038
F5F210233005	Soil	BRC-BKG-11A-4-6	Boron	4.1 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233005	Soil	BRC-BKG-11A-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233005	Soil	BRC-BKG-11A-4-6	Calcium	64400 N			mg/kg	17-Jun-05		1.028
F5F210233005	Soil	BRC-BKG-11A-4-6	Chromium	8.8			mg/kg	17-Jun-05		0.1841
F5F210233005	Soil	BRC-BKG-11A-4-6	Cobalt	7.7 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233005	Soil	BRC-BKG-11A-4-6	Copper	13.3 N			mg/kg	17-Jun-05		0.2205
F5F210233005	Soil	BRC-BKG-11A-4-6	Iron	11400 N			mg/kg	17-Jun-05		1.173
F5F210233005	Soil	BRC-BKG-11A-4-6	Lead	5.7 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233005	Soil	BRC-BKG-11A-4-6	Lithium	13.5			mg/kg	17-Jun-05		0.2425
F5F210233005	Soil	BRC-BKG-11A-4-6	Magnesium	9410 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233005	Soil	BRC-BKG-11A-4-6	Manganese	302 N			mg/kg	17-Jun-05		0.0131
F5F210233005	Soil	BRC-BKG-11A-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233005	Soil	BRC-BKG-11A-4-6	Molybdenum	0.41 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233005	Soil	BRC-BKG-11A-4-6	Nickel	13.7 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233005	Soil	BRC-BKG-11A-4-6	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233005	Soil	BRC-BKG-11A-4-6	Palladium	0.52			mg/kg	17-Jun-05		0.0765
F5F210233005	Soil	BRC-BKG-11A-4-6	Phosphorus	1200			mg/kg	17-Jun-05		1.913
F5F210233005	Soil	BRC-BKG-11A-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233005	Soil	BRC-BKG-11A-4-6	Potassium	982 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233005	Soil	BRC-BKG-11A-4-6	Selenium	0.29 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233005	Soil	BRC-BKG-11A-4-6	Silicon	744 N			mg/kg	17-Jun-05		0.5289
F5F210233005	Soil	BRC-BKG-11A-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233005	Soil	BRC-BKG-11A-4-6	Sodium	914			mg/kg	17-Jun-05		7.567
F5F210233005	Soil	BRC-BKG-11A-4-6	Strontium	225			mg/kg	17-Jun-05		0.0735
F5F210233005	Soil	BRC-BKG-11A-4-6	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233005	Soil	BRC-BKG-11A-4-6	Tin	0.39 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233005	Soil	BRC-BKG-11A-4-6	Titanium	446 N			mg/kg	17-Jun-05		0.1175
F5F210233005	Soil	BRC-BKG-11A-4-6	Tungsten	0.65 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233005	Soil	BRC-BKG-11A-4-6	Uranium	1 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233005	Soil	BRC-BKG-11A-4-6	Vanadium	33.5			mg/kg	17-Jun-05		0.5535

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233005	Soil	BRC-BKG-11A-4-6	Zinc	28.5			mg/kg	17-Jun-05		0.2207
F5F210233005	Soil	BRC-BKG-11A-4-6	Zirconium	127			mg/kg	17-Jun-05		0.0874
F5F210233006	Soil	BRC-BKG-11A-9-11	Chloride	6.2 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233006	Soil	BRC-BKG-11A-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233006	Soil	BRC-BKG-11A-9-11	Nitrate	0.67	J	h	mg/kg	17-Jun-05		0.1
F5F210233006	Soil	BRC-BKG-11A-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233006	Soil	BRC-BKG-11A-9-11	Sulfate	86.6			mg/kg	17-Jun-05		0.612
F5F210233006	Soil	BRC-BKG-11A-9-11	CEC	14.8			meq/100g	17-Jun-05		
F5F210233006	Soil	BRC-BKG-11A-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233006	Soil	BRC-BKG-11A-9-11	pH (solid)	8.2	J	h	none	17-Jun-05		
F5F210233006	Soil	BRC-BKG-11A-9-11	Actinium 227 [d]	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Actinium 228	1.32			pCi/g	17-Jun-05	0.61	0.4
F5F210233006	Soil	BRC-BKG-11A-9-11	Bismuth 210 [e]	0.7 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233006	Soil	BRC-BKG-11A-9-11	Bismuth 211 [f]	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Bismuth 212	0.65 U			pCi/g	17-Jun-05	0.55	1.1
F5F210233006	Soil	BRC-BKG-11A-9-11	Bismuth 214	1.46			pCi/g	17-Jun-05	0.27	0.17
F5F210233006	Soil	BRC-BKG-11A-9-11	Cobalt 57	0.007 U			pCi/g	17-Jun-05	0.031	0.055
F5F210233006	Soil	BRC-BKG-11A-9-11	Cobalt 60	-0.025 U			pCi/g	17-Jun-05	0.061	0.11
F5F210233006	Soil	BRC-BKG-11A-9-11	Lead 210	0.7 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233006	Soil	BRC-BKG-11A-9-11	Lead 211 [g]	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Lead 212	1.36			pCi/g	17-Jun-05	0.24	0.18
F5F210233006	Soil	BRC-BKG-11A-9-11	Lead 214	1.54			pCi/g	17-Jun-05	0.27	0.15
F5F210233006	Soil	BRC-BKG-11A-9-11	Polonium 210 [h]	0.7 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233006	Soil	BRC-BKG-11A-9-11	Polonium 212 [i]	0.42 U			pCi/g	17-Jun-05	0.35	0.69
F5F210233006	Soil	BRC-BKG-11A-9-11	Polonium 214 [j]	1.46			pCi/g	17-Jun-05	0.27	0.17
F5F210233006	Soil	BRC-BKG-11A-9-11	Polonium 215 [k]	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Polonium 216 [l]	1.36			pCi/g	17-Jun-05	0.24	0.18
F5F210233006	Soil	BRC-BKG-11A-9-11	Potassium 40	18.4			pCi/g	17-Jun-05	3.1	1
F5F210233006	Soil	BRC-BKG-11A-9-11	Protactinium 234	0.01 U			pCi/g	17-Jun-05	0.17	0.29
F5F210233006	Soil	BRC-BKG-11A-9-11	Radium 223 [n]	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Radium 224 [o]	1.36			pCi/g	17-Jun-05	0.24	0.18
HD3CH1C5	Soil	BRC-BKG-11A-9-11	Radium 228	2.21	R	e	pCi/g	17-Jun-05	0.28	0.644
F5F210233006	Soil	BRC-BKG-11A-9-11	Thallium 207 [p]	0.03 U			pCi/g	17-Jun-05	0.46	0.8

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233006	Soil	BRC-BKG-11A-9-11	Thallium 208	0.53			pCi/g	17-Jun-05	0.13	0.09
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 227	0.03 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 228	1.6			pCi/g	17-Jun-05	0.33	0.15
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 230	3.01			pCi/g	17-Jun-05	0.47	0.08
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 231	0.1 U			pCi/g	17-Jun-05	0.093	0.1
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 232	1.34			pCi/g	17-Jun-05	0.29	0.07
F5F210233006	Soil	BRC-BKG-11A-9-11	Thorium 234	1.59			pCi/g	17-Jun-05	0.51	0.95
F5F210233006	Soil	BRC-BKG-11A-9-11	Uranium 233/234	2.66			pCi/g	17-Jun-05	0.46	0.13
F5F210233006	Soil	BRC-BKG-11A-9-11	Uranium 235	0.1 U			pCi/g	17-Jun-05	0.093	0.1
F5F210233006	Soil	BRC-BKG-11A-9-11	Uranium 238	2.02			pCi/g	17-Jun-05	0.38	0.09
F5F210233006	Soil	BRC-BKG-11A-9-11	Moisture (%)	5.2			percent	17-Jun-05		
F5F210233006	Soil	BRC-BKG-11A-9-11	Aluminum	8470 NE	J	j	mg/kg	17-Jun-05		2
F5F210233006	Soil	BRC-BKG-11A-9-11	Antimony	0.41 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233006	Soil	BRC-BKG-11A-9-11	Arsenic	6			mg/kg	17-Jun-05		0.1278
F5F210233006	Soil	BRC-BKG-11A-9-11	Barium	166 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233006	Soil	BRC-BKG-11A-9-11	Beryllium	0.81			mg/kg	17-Jun-05		0.038
F5F210233006	Soil	BRC-BKG-11A-9-11	Boron	10.2	J+	b	mg/kg	17-Jun-05		3.2
F5F210233006	Soil	BRC-BKG-11A-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233006	Soil	BRC-BKG-11A-9-11	Calcium	50600 N			mg/kg	17-Jun-05		1.028
F5F210233006	Soil	BRC-BKG-11A-9-11	Chromium	10.3			mg/kg	17-Jun-05		0.1841
F5F210233006	Soil	BRC-BKG-11A-9-11	Cobalt	7.9 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233006	Soil	BRC-BKG-11A-9-11	Copper	17 N			mg/kg	17-Jun-05		0.2205
F5F210233006	Soil	BRC-BKG-11A-9-11	Iron	12700 N			mg/kg	17-Jun-05		1.173
F5F210233006	Soil	BRC-BKG-11A-9-11	Lead	6.3 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233006	Soil	BRC-BKG-11A-9-11	Lithium	26.5			mg/kg	17-Jun-05		0.2425
F5F210233006	Soil	BRC-BKG-11A-9-11	Magnesium	16600 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233006	Soil	BRC-BKG-11A-9-11	Manganese	343 N			mg/kg	17-Jun-05		0.0131
F5F210233006	Soil	BRC-BKG-11A-9-11	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233006	Soil	BRC-BKG-11A-9-11	Molybdenum	0.54 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233006	Soil	BRC-BKG-11A-9-11	Nickel	16.6 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233006	Soil	BRC-BKG-11A-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233006	Soil	BRC-BKG-11A-9-11	Palladium	1			mg/kg	17-Jun-05		0.0765
F5F210233006	Soil	BRC-BKG-11A-9-11	Phosphorus	1070			mg/kg	17-Jun-05		1.913

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233006	Soil	BRC-BKG-11A-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233006	Soil	BRC-BKG-11A-9-11	Potassium	1170 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233006	Soil	BRC-BKG-11A-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233006	Soil	BRC-BKG-11A-9-11	Silicon	703 N			mg/kg	17-Jun-05		0.5289
F5F210233006	Soil	BRC-BKG-11A-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233006	Soil	BRC-BKG-11A-9-11	Sodium	937			mg/kg	17-Jun-05		7.567
F5F210233006	Soil	BRC-BKG-11A-9-11	Strontium	461			mg/kg	17-Jun-05		0.0735
F5F210233006	Soil	BRC-BKG-11A-9-11	Thallium	0.38 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233006	Soil	BRC-BKG-11A-9-11	Tin	0.44 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233006	Soil	BRC-BKG-11A-9-11	Titanium	504 N			mg/kg	17-Jun-05		0.1175
F5F210233006	Soil	BRC-BKG-11A-9-11	Tungsten	0.94 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233006	Soil	BRC-BKG-11A-9-11	Uranium	2.7			mg/kg	17-Jun-05		0.038
F5F210233006	Soil	BRC-BKG-11A-9-11	Vanadium	48.6			mg/kg	17-Jun-05		0.5535
F5F210233006	Soil	BRC-BKG-11A-9-11	Zinc	30.8			mg/kg	17-Jun-05		0.2207
F5F210233006	Soil	BRC-BKG-11A-9-11	Zirconium	112			mg/kg	17-Jun-05		0.0874
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Chloride	0.79 B J	U	b	mg/kg	17-Jun-05		0.25
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Nitrate	0.45	J	h	mg/kg	17-Jun-05		0.1
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Sulfate	1.2 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233031	Soil	BRC-BKG-11B-0-0.5	CEC	12			meq/100g	17-Jun-05		
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233031	Soil	BRC-BKG-11B-0-0.5	pH (solid)	8.9	J	h	none	17-Jun-05		
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Actinium 227 [d]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Actinium 228	1.64			pCi/g	17-Jun-05	0.6	0.38
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Bismuth 210 [e]	0.6 U			pCi/g	17-Jun-05	1.3	2.3
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Bismuth 211 [f]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Bismuth 212	0.85			pCi/g	17-Jun-05	0.6	0.78
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Bismuth 214	0.92			pCi/g	17-Jun-05	0.23	0.41
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Cobalt 57	-0.031 U			pCi/g	17-Jun-05	0.033	0.053
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Cobalt 60	-0.041 U			pCi/g	17-Jun-05	0.053	0.086
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lead 210	0.6 U			pCi/g	17-Jun-05	1.3	2.3
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lead 211 [g]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lead 212	1.49			pCi/g	17-Jun-05	0.26	0.17
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lead 214	0.78			pCi/g	17-Jun-05	0.21	0.15
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Polonium 210 [h]	0.6 U			pCi/g	17-Jun-05	1.3	2.3
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Polonium 212 [i]	0.54			pCi/g	17-Jun-05	0.39	0.5
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Polonium 214 [j]	0.92			pCi/g	17-Jun-05	0.23	0.18
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Polonium 215 [k]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Polonium 216 [l]	1.49			pCi/g	17-Jun-05	0.26	0.17
HD3K01C4	Soil	BRC-BKG-11B-0-0.5	Polonium 218 [m]	1.13			pCi/g	17-Jun-05	0.14	0.113
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Potassium 40	23.7			pCi/g	17-Jun-05	3.6	1.1
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Protactinium 234	-0.08 U			pCi/g	17-Jun-05	0.16	0.26
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Radium 223 [n]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Radium 224 [o]	1.49			pCi/g	17-Jun-05	0.26	0.17
HD3K01C4	Soil	BRC-BKG-11B-0-0.5	Radium 226	1.13			pCi/g	17-Jun-05	0.14	0.113
HD3K01C5	Soil	BRC-BKG-11B-0-0.5	Radium 228	2.51	R	e	pCi/g	17-Jun-05	0.29	0.75
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thallium 207 [p]	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thallium 208	0.51			pCi/g	17-Jun-05	0.13	0.1
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 227	-0.15 U			pCi/g	17-Jun-05	0.42	0.72
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 228	1.62			pCi/g	17-Jun-05	0.29	0.07
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 230	1.35			pCi/g	17-Jun-05	0.26	0.03
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 231	0.088 U			pCi/g	17-Jun-05	0.082	0.089
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 232	1.72			pCi/g	17-Jun-05	0.3	0.03
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thorium 234	0.97 U			pCi/g	17-Jun-05	0.7	1.2
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Uranium 233/234	0.78 J	U	b	pCi/g	17-Jun-05	0.21	0.12
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Uranium 235	0.088 U			pCi/g	17-Jun-05	0.082	0.089
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Uranium 238	1.06			pCi/g	17-Jun-05	0.25	0.08
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Moisture (%)	0.89			percent	17-Jun-05		
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Aluminum	7220 N			mg/kg	17-Jun-05		2
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Antimony	0.22 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Arsenic	3.5			mg/kg	17-Jun-05		0.1278
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Barium	202 N			mg/kg	17-Jun-05		0.152
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Beryllium	0.8			mg/kg	17-Jun-05		0.038
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Boron	3.7 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Calcium	16700 N			mg/kg	17-Jun-05		1.028
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Chromium	13.3			mg/kg	17-Jun-05		0.1841
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Cobalt	9.3			mg/kg	17-Jun-05		0.064
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Copper	17.2			mg/kg	17-Jun-05		0.2205
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Iron	15100 N			mg/kg	17-Jun-05		1.173
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lead	16.4			mg/kg	17-Jun-05		0.0506
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Lithium	10.9			mg/kg	17-Jun-05		0.2425
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Magnesium	8600			mg/kg	17-Jun-05		1.176
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Manganese	678 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Mercury	0.017 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Molybdenum	0.62 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Nickel	15.6			mg/kg	17-Jun-05		0.1295
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Niobium	1.3 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Palladium	0.29			mg/kg	17-Jun-05		0.0765
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Phosphorus	1610			mg/kg	17-Jun-05		1.913
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Potassium	1710			mg/kg	17-Jun-05		2.079
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Silicon	1060 N			mg/kg	17-Jun-05		0.5289
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Sodium	170			mg/kg	17-Jun-05		7.567
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Strontium	133			mg/kg	17-Jun-05		0.0735
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Tin	0.51 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Titanium	618 N			mg/kg	17-Jun-05		0.1175
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Tungsten	0.97 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Uranium	0.71 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Vanadium	46.8 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Zinc	44.4			mg/kg	17-Jun-05		0.2207
F5F210233031	Soil	BRC-BKG-11B-0-0.5	Zirconium	118 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233032	Soil	BRC-BKG-11B-4-6	Chloride	3.9 J			mg/kg	17-Jun-05		0.25
F5F210233032	Soil	BRC-BKG-11B-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233032	Soil	BRC-BKG-11B-4-6	Nitrate	0.69	J	h	mg/kg	17-Jun-05		0.1

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233032	Soil	BRC-BKG-11B-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233032	Soil	BRC-BKG-11B-4-6	Sulfate	4.4 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233032	Soil	BRC-BKG-11B-4-6	CEC	12			meq/100g	17-Jun-05		
F5F210233032	Soil	BRC-BKG-11B-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233032	Soil	BRC-BKG-11B-4-6	pH (solid)	8.6	J	h	none	17-Jun-05		
F5F210233032	Soil	BRC-BKG-11B-4-6	Actinium 227 [d]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Actinium 228	2.01			pCi/g	17-Jun-05	0.67	0.4
F5F210233032	Soil	BRC-BKG-11B-4-6	Bismuth 210 [e]	-0.2 U			pCi/g	17-Jun-05	1.1	2
F5F210233032	Soil	BRC-BKG-11B-4-6	Bismuth 211 [f]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Bismuth 212	0.88 U			pCi/g	17-Jun-05	0.55	1.1
F5F210233032	Soil	BRC-BKG-11B-4-6	Bismuth 214	1.05			pCi/g	17-Jun-05	0.24	0.4
F5F210233032	Soil	BRC-BKG-11B-4-6	Cobalt 57	0.011 U			pCi/g	17-Jun-05	0.029	0.051
F5F210233032	Soil	BRC-BKG-11B-4-6	Cobalt 60	0.026 U			pCi/g	17-Jun-05	0.057	0.11
F5F210233032	Soil	BRC-BKG-11B-4-6	Lead 210	-0.2 U			pCi/g	17-Jun-05	1.1	2
F5F210233032	Soil	BRC-BKG-11B-4-6	Lead 211 [g]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Lead 212	1.75			pCi/g	17-Jun-05	0.26	0.13
F5F210233032	Soil	BRC-BKG-11B-4-6	Lead 214	0.97			pCi/g	17-Jun-05	0.2	0.16
F5F210233032	Soil	BRC-BKG-11B-4-6	Polonium 210 [h]	-0.2 U			pCi/g	17-Jun-05	1.1	2
F5F210233032	Soil	BRC-BKG-11B-4-6	Polonium 212 [i]	0.56 U			pCi/g	17-Jun-05	0.35	0.69
F5F210233032	Soil	BRC-BKG-11B-4-6	Polonium 214 [j]	1.05			pCi/g	17-Jun-05	0.24	0.18
F5F210233032	Soil	BRC-BKG-11B-4-6	Polonium 215 [k]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Polonium 216 [l]	1.75			pCi/g	17-Jun-05	0.26	0.13
HD3K11C4	Soil	BRC-BKG-11B-4-6	Polonium 218 [m]	1.13			pCi/g	17-Jun-05	0.14	0.114
F5F210233032	Soil	BRC-BKG-11B-4-6	Potassium 40	23.2			pCi/g	17-Jun-05	3.6	0.9
F5F210233032	Soil	BRC-BKG-11B-4-6	Protactinium 234	0.03 U			pCi/g	17-Jun-05	0.17	0.26
F5F210233032	Soil	BRC-BKG-11B-4-6	Radium 223 [n]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Radium 224 [o]	1.75			pCi/g	17-Jun-05	0.26	0.13
HD3K11C4	Soil	BRC-BKG-11B-4-6	Radium 226	1.13			pCi/g	17-Jun-05	0.14	0.114
HD3K11C5	Soil	BRC-BKG-11B-4-6	Radium 228	2 J	U	k, e, b	pCi/g	17-Jun-05	0.26	0.766
F5F210233032	Soil	BRC-BKG-11B-4-6	Thallium 207 [p]	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Thallium 208	0.61			pCi/g	17-Jun-05	0.14	0.09
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 227	0.06 U			pCi/g	17-Jun-05	0.42	0.75
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 228	1.73			pCi/g	17-Jun-05	0.32	0.07

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 230	1.12			pCi/g	17-Jun-05	0.25	0.03
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 231	0.09 U			pCi/g	17-Jun-05	0.084	0.091
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 232	1.74			pCi/g	17-Jun-05	0.32	0.03
F5F210233032	Soil	BRC-BKG-11B-4-6	Thorium 234	1 U			pCi/g	17-Jun-05	0.64	1.1
F5F210233032	Soil	BRC-BKG-11B-4-6	Uranium 233/234	1.45			pCi/g	17-Jun-05	0.3	0.07
F5F210233032	Soil	BRC-BKG-11B-4-6	Uranium 235	0.09 U			pCi/g	17-Jun-05	0.084	0.091
F5F210233032	Soil	BRC-BKG-11B-4-6	Uranium 238	1.27			pCi/g	17-Jun-05	0.28	0.07
F5F210233032	Soil	BRC-BKG-11B-4-6	Moisture (%)	5			percent	17-Jun-05		
F5F210233032	Soil	BRC-BKG-11B-4-6	Aluminum	6950 N			mg/kg	17-Jun-05		2
F5F210233032	Soil	BRC-BKG-11B-4-6	Antimony	0.15 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233032	Soil	BRC-BKG-11B-4-6	Arsenic	3.7			mg/kg	17-Jun-05		0.1278
F5F210233032	Soil	BRC-BKG-11B-4-6	Barium	130 N			mg/kg	17-Jun-05		0.152
F5F210233032	Soil	BRC-BKG-11B-4-6	Beryllium	0.76			mg/kg	17-Jun-05		0.038
F5F210233032	Soil	BRC-BKG-11B-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233032	Soil	BRC-BKG-11B-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233032	Soil	BRC-BKG-11B-4-6	Calcium	35100 N			mg/kg	17-Jun-05		1.028
F5F210233032	Soil	BRC-BKG-11B-4-6	Chromium	9.9			mg/kg	17-Jun-05		0.1841
F5F210233032	Soil	BRC-BKG-11B-4-6	Cobalt	8			mg/kg	17-Jun-05		0.064
F5F210233032	Soil	BRC-BKG-11B-4-6	Copper	15.4			mg/kg	17-Jun-05		0.2205
F5F210233032	Soil	BRC-BKG-11B-4-6	Iron	12400 N			mg/kg	17-Jun-05		1.173
F5F210233032	Soil	BRC-BKG-11B-4-6	Lead	6.9			mg/kg	17-Jun-05		0.0506
F5F210233032	Soil	BRC-BKG-11B-4-6	Lithium	13.2			mg/kg	17-Jun-05		0.2425
F5F210233032	Soil	BRC-BKG-11B-4-6	Magnesium	9360			mg/kg	17-Jun-05		1.176
F5F210233032	Soil	BRC-BKG-11B-4-6	Manganese	312 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233032	Soil	BRC-BKG-11B-4-6	Mercury	0.017 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233032	Soil	BRC-BKG-11B-4-6	Molybdenum	0.49 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233032	Soil	BRC-BKG-11B-4-6	Nickel	15.5			mg/kg	17-Jun-05		0.1295
F5F210233032	Soil	BRC-BKG-11B-4-6	Niobium	1.8 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233032	Soil	BRC-BKG-11B-4-6	Palladium	0.4			mg/kg	17-Jun-05		0.0765
F5F210233032	Soil	BRC-BKG-11B-4-6	Phosphorus	1170			mg/kg	17-Jun-05		1.913
F5F210233032	Soil	BRC-BKG-11B-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233032	Soil	BRC-BKG-11B-4-6	Potassium	1050			mg/kg	17-Jun-05		2.079
F5F210233032	Soil	BRC-BKG-11B-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233032	Soil	BRC-BKG-11B-4-6	Silicon	462 N			mg/kg	17-Jun-05		0.5289
F5F210233032	Soil	BRC-BKG-11B-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233032	Soil	BRC-BKG-11B-4-6	Sodium	436			mg/kg	17-Jun-05		7.567
F5F210233032	Soil	BRC-BKG-11B-4-6	Strontium	178			mg/kg	17-Jun-05		0.0735
F5F210233032	Soil	BRC-BKG-11B-4-6	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233032	Soil	BRC-BKG-11B-4-6	Tin	0.42 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233032	Soil	BRC-BKG-11B-4-6	Titanium	492 N			mg/kg	17-Jun-05		0.1175
F5F210233032	Soil	BRC-BKG-11B-4-6	Tungsten	2 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233032	Soil	BRC-BKG-11B-4-6	Uranium	0.82 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233032	Soil	BRC-BKG-11B-4-6	Vanadium	38 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233032	Soil	BRC-BKG-11B-4-6	Zinc	34.1			mg/kg	17-Jun-05		0.2207
F5F210233032	Soil	BRC-BKG-11B-4-6	Zirconium	116 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233033	Soil	BRC-BKG-11B-9-11	Chloride	27.4 J			mg/kg	17-Jun-05		0.25
F5F210233033	Soil	BRC-BKG-11B-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233033	Soil	BRC-BKG-11B-9-11	Nitrate	0.49	J	h	mg/kg	17-Jun-05		0.1
F5F210233033	Soil	BRC-BKG-11B-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233033	Soil	BRC-BKG-11B-9-11	Sulfate	62.6			mg/kg	17-Jun-05		0.612
F5F210233033	Soil	BRC-BKG-11B-9-11	CEC	8.2			meq/100g	17-Jun-05		
F5F210233033	Soil	BRC-BKG-11B-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233033	Soil	BRC-BKG-11B-9-11	pH (solid)	8.2	J	h	none	17-Jun-05		
F5F210233033	Soil	BRC-BKG-11B-9-11	Actinium 227 [d]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Actinium 228	1.56			pCi/g	17-Jun-05	0.56	0.36
F5F210233033	Soil	BRC-BKG-11B-9-11	Bismuth 210 [e]	0.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233033	Soil	BRC-BKG-11B-9-11	Bismuth 211 [f]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Bismuth 212	0.62 U			pCi/g	17-Jun-05	0.6	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Bismuth 214	1.44			pCi/g	17-Jun-05	0.29	0.17
F5F210233033	Soil	BRC-BKG-11B-9-11	Cobalt 57	0.018 U			pCi/g	17-Jun-05	0.031	0.054
F5F210233033	Soil	BRC-BKG-11B-9-11	Cobalt 60	0.013 U			pCi/g	17-Jun-05	0.048	0.099
F5F210233033	Soil	BRC-BKG-11B-9-11	Lead 210	0.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233033	Soil	BRC-BKG-11B-9-11	Lead 211 [g]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Lead 212	1.45			pCi/g	17-Jun-05	0.22	0.12
F5F210233033	Soil	BRC-BKG-11B-9-11	Lead 214	1.24			pCi/g	17-Jun-05	0.25	0.15
F5F210233033	Soil	BRC-BKG-11B-9-11	Polonium 210 [h]	0.7 U			pCi/g	17-Jun-05	1.1	2.1

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233033	Soil	BRC-BKG-11B-9-11	Polonium 212 [i]	0.39 U			pCi/g	17-Jun-05	0.38	0.44
F5F210233033	Soil	BRC-BKG-11B-9-11	Polonium 214 [j]	1.44			pCi/g	17-Jun-05	0.28	0.17
F5F210233033	Soil	BRC-BKG-11B-9-11	Polonium 215 [k]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Polonium 216 [l]	1.45			pCi/g	17-Jun-05	0.22	0.12
HD3K31C6	Soil	BRC-BKG-11B-9-11	Polonium 218 [m]	1.96	J	n	pCi/g	17-Jun-05	0.21	0.101
F5F210233033	Soil	BRC-BKG-11B-9-11	Potassium 40	19.6			pCi/g	17-Jun-05	3	0.7
F5F210233033	Soil	BRC-BKG-11B-9-11	Protactinium 234	-0.09 U			pCi/g	17-Jun-05	0.16	0.23
F5F210233033	Soil	BRC-BKG-11B-9-11	Radium 223 [n]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Radium 224 [o]	1.45			pCi/g	17-Jun-05	0.22	0.12
HD3K31C6	Soil	BRC-BKG-11B-9-11	Radium 226	1.96	J	n	pCi/g	17-Jun-05	0.21	0.101
HD3K31C7	Soil	BRC-BKG-11B-9-11	Radium 228	1.55 J	U	k, e, b	pCi/g	17-Jun-05	0.24	0.752
F5F210233033	Soil	BRC-BKG-11B-9-11	Thallium 207 [p]	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Thallium 208	0.43			pCi/g	17-Jun-05	0.13	0.09
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 227	-0.04 U			pCi/g	17-Jun-05	0.39	0.69
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 228	1.45			pCi/g	17-Jun-05	0.28	0.07
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 230	2.25			pCi/g	17-Jun-05	0.36	0.04
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 231	0.06 U			pCi/g	17-Jun-05	0.082	0.11
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 232	1.47			pCi/g	17-Jun-05	0.28	0.04
F5F210233033	Soil	BRC-BKG-11B-9-11	Thorium 234	1.6			pCi/g	17-Jun-05	0.5	0.86
F5F210233033	Soil	BRC-BKG-11B-9-11	Uranium 233/234	2.84			pCi/g	17-Jun-05	0.48	0.12
F5F210233033	Soil	BRC-BKG-11B-9-11	Uranium 235	0.06 U			pCi/g	17-Jun-05	0.082	0.11
F5F210233033	Soil	BRC-BKG-11B-9-11	Uranium 238	2.28			pCi/g	17-Jun-05	0.41	0.09
F5F210233033	Soil	BRC-BKG-11B-9-11	Moisture (%)	4.1			percent	17-Jun-05		
F5F210233033	Soil	BRC-BKG-11B-9-11	Aluminum	6720 N			mg/kg	17-Jun-05		2
F5F210233033	Soil	BRC-BKG-11B-9-11	Antimony	N U			mg/kg	17-Jun-05		0.3298
F5F210233033	Soil	BRC-BKG-11B-9-11	Arsenic	5			mg/kg	17-Jun-05		0.1278
F5F210233033	Soil	BRC-BKG-11B-9-11	Barium	175 N			mg/kg	17-Jun-05		0.152
F5F210233033	Soil	BRC-BKG-11B-9-11	Beryllium	0.64			mg/kg	17-Jun-05		0.038
F5F210233033	Soil	BRC-BKG-11B-9-11	Boron	5.8	J+	b	mg/kg	17-Jun-05		3.2
F5F210233033	Soil	BRC-BKG-11B-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233033	Soil	BRC-BKG-11B-9-11	Calcium	70200 N			mg/kg	17-Jun-05		1.028
F5F210233033	Soil	BRC-BKG-11B-9-11	Chromium	7.8			mg/kg	17-Jun-05		0.1841
F5F210233033	Soil	BRC-BKG-11B-9-11	Cobalt	9.2			mg/kg	17-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233033	Soil	BRC-BKG-11B-9-11	Copper	14.5			mg/kg	17-Jun-05		0.2205
F5F210233033	Soil	BRC-BKG-11B-9-11	Iron	8790 N			mg/kg	17-Jun-05		1.173
F5F210233033	Soil	BRC-BKG-11B-9-11	Lead	4.9			mg/kg	17-Jun-05		0.0506
F5F210233033	Soil	BRC-BKG-11B-9-11	Lithium	18.3			mg/kg	17-Jun-05		0.2425
F5F210233033	Soil	BRC-BKG-11B-9-11	Magnesium	13000			mg/kg	17-Jun-05		1.176
F5F210233033	Soil	BRC-BKG-11B-9-11	Manganese	449 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233033	Soil	BRC-BKG-11B-9-11	Mercury	0.014 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233033	Soil	BRC-BKG-11B-9-11	Molybdenum	0.74 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233033	Soil	BRC-BKG-11B-9-11	Nickel	13.6			mg/kg	17-Jun-05		0.1295
F5F210233033	Soil	BRC-BKG-11B-9-11	Niobium	1.3 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233033	Soil	BRC-BKG-11B-9-11	Palladium	0.84			mg/kg	17-Jun-05		0.0765
F5F210233033	Soil	BRC-BKG-11B-9-11	Phosphorus	1030			mg/kg	17-Jun-05		1.913
F5F210233033	Soil	BRC-BKG-11B-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233033	Soil	BRC-BKG-11B-9-11	Potassium	866			mg/kg	17-Jun-05		2.079
F5F210233033	Soil	BRC-BKG-11B-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233033	Soil	BRC-BKG-11B-9-11	Silicon	435 N			mg/kg	17-Jun-05		0.5289
F5F210233033	Soil	BRC-BKG-11B-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233033	Soil	BRC-BKG-11B-9-11	Sodium	773			mg/kg	17-Jun-05		7.567
F5F210233033	Soil	BRC-BKG-11B-9-11	Strontium	408			mg/kg	17-Jun-05		0.0735
F5F210233033	Soil	BRC-BKG-11B-9-11	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233033	Soil	BRC-BKG-11B-9-11	Tin	0.32 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233033	Soil	BRC-BKG-11B-9-11	Titanium	416 N			mg/kg	17-Jun-05		0.1175
F5F210233033	Soil	BRC-BKG-11B-9-11	Tungsten	1.3 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233033	Soil	BRC-BKG-11B-9-11	Uranium	1.7			mg/kg	17-Jun-05		0.038
F5F210233033	Soil	BRC-BKG-11B-9-11	Vanadium	35.6 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233033	Soil	BRC-BKG-11B-9-11	Zinc	22.8			mg/kg	17-Jun-05		0.2207
F5F210233033	Soil	BRC-BKG-11B-9-11	Zirconium	86.1 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Chloride	1.3 B J	U	b	mg/kg	17-Jun-05		0.25
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Nitrate	0.57	J	h	mg/kg	17-Jun-05		0.1
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Sulfate	1.4 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233028	Soil	BRC-BKG-11C-0-0.5	CEC	10			meq/100g	17-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233028	Soil	BRC-BKG-11C-0-0.5	pH (solid)	8.8	J	h	none	17-Jun-05		
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Actinium 227 [d]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Actinium 228	2.13			pCi/g	17-Jun-05	0.72	0.38
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Bismuth 210 [e]	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Bismuth 211 [f]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Bismuth 212	0.91			pCi/g	17-Jun-05	0.65	0.73
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Bismuth 214	0.83			pCi/g	17-Jun-05	0.24	0.21
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Cobalt 57	-0.005 U			pCi/g	17-Jun-05	0.029	0.05
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Cobalt 60	0.012 U			pCi/g	17-Jun-05	0.046	0.097
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lead 210	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lead 211 [g]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lead 212	1.44			pCi/g	17-Jun-05	0.24	0.16
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lead 214	1			pCi/g	17-Jun-05	0.22	0.15
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Polonium 210 [h]	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Polonium 212 [i]	0.58			pCi/g	17-Jun-05	0.42	0.47
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Polonium 214 [j]	0.83			pCi/g	17-Jun-05	0.23	0.21
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Polonium 215 [k]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Polonium 216 [l]	1.44			pCi/g	17-Jun-05	0.24	0.16
HD3KL1GK	Soil	BRC-BKG-11C-0-0.5	Polonium 218 [m]	0.999 J	U	k, b	pCi/g	17-Jun-05	0.15	0.143
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Potassium 40	23.9			pCi/g	17-Jun-05	3.5	0.7
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Protactinium 234	-0.17 U			pCi/g	17-Jun-05	0.16	0.25
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Radium 223 [n]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Radium 224 [o]	1.44			pCi/g	17-Jun-05	0.24	0.16
HD3KL1GK	Soil	BRC-BKG-11C-0-0.5	Radium 226	0.999 J	U	k, b	pCi/g	17-Jun-05	0.15	0.143
HD3KL1GL	Soil	BRC-BKG-11C-0-0.5	Radium 228	1.34 J	U	k, b	pCi/g	17-Jun-05	0.18	0.44
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thallium 207 [p]	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thallium 208	0.51			pCi/g	17-Jun-05	0.13	0.09
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 227	0.03 U			pCi/g	17-Jun-05	0.45	0.8
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 228	1.72			pCi/g	17-Jun-05	0.3	0.05
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 230	1.19			pCi/g	17-Jun-05	0.24	0.04
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 231	0.06 J	U	b	pCi/g	17-Jun-05	0.067	0.041
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 232	1.51			pCi/g	17-Jun-05	0.28	0.04

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thorium 234	0.78 U			pCi/g	17-Jun-05	0.7	1.2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Uranium 233/234	1.09	U	b	pCi/g	17-Jun-05	0.25	0.07
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Uranium 235	0.06 J	J	k	pCi/g	17-Jun-05	0.067	0.041
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Uranium 238	1.03			pCi/g	17-Jun-05	0.24	0.05
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Moisture (%)	0.78			percent	17-Jun-05		
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Aluminum	6850 N			mg/kg	17-Jun-05		2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Antimony	0.15 BN	J	g	mg/kg	17-Jun-05		0.3298
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Arsenic	3.9			mg/kg	17-Jun-05		0.1278
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Barium	152 N			mg/kg	17-Jun-05		0.152
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Beryllium	0.73			mg/kg	17-Jun-05		0.038
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Calcium	20900 N			mg/kg	17-Jun-05		1.028
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Chromium	10.7			mg/kg	17-Jun-05		0.1841
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Cobalt	7.4			mg/kg	17-Jun-05		0.064
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Copper	14.8			mg/kg	17-Jun-05		0.2205
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Iron	12800 N			mg/kg	17-Jun-05		1.173
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lead	13.7			mg/kg	17-Jun-05		0.0506
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Lithium	10.4			mg/kg	17-Jun-05		0.2425
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Magnesium	8840			mg/kg	17-Jun-05		1.176
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Manganese	455 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Mercury	0.034			mg/kg	17-Jun-05		0.0072
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Molybdenum	0.46 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Nickel	13.8			mg/kg	17-Jun-05		0.1295
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Palladium	0.27			mg/kg	17-Jun-05		0.0765
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Phosphorus	1470			mg/kg	17-Jun-05		1.913
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Potassium	1620			mg/kg	17-Jun-05		2.079
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Silicon	686 N			mg/kg	17-Jun-05		0.5289
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Sodium	153			mg/kg	17-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Strontium	126			mg/kg	17-Jun-05		0.0735
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Thallium	0.25 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Tin	0.41 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Titanium	459 N			mg/kg	17-Jun-05		0.1175
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Tungsten	0.93 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Uranium	1.8			mg/kg	17-Jun-05		0.038
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Vanadium	32.5 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Zinc	41.9			mg/kg	17-Jun-05		0.2207
F5F210233028	Soil	BRC-BKG-11C-0-0.5	Zirconium	109 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233029	Soil	BRC-BKG-11C-4-6	Chloride	21.2 J			mg/kg	17-Jun-05		0.25
F5F210233029	Soil	BRC-BKG-11C-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233029	Soil	BRC-BKG-11C-4-6	Nitrate	2.4	J	h	mg/kg	17-Jun-05		0.1
F5F210233029	Soil	BRC-BKG-11C-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233029	Soil	BRC-BKG-11C-4-6	Sulfate	84.4			mg/kg	17-Jun-05		0.612
F5F210233029	Soil	BRC-BKG-11C-4-6	CEC	12.1			meq/100g	17-Jun-05		
F5F210233029	Soil	BRC-BKG-11C-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233029	Soil	BRC-BKG-11C-4-6	pH (solid)	8.3	J	h	none	17-Jun-05		
F5F210233029	Soil	BRC-BKG-11C-4-6	Actinium 227 [d]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Actinium 228	2.03			pCi/g	17-Jun-05	0.68	0.37
F5F210233029	Soil	BRC-BKG-11C-4-6	Bismuth 210 [e]	0.5 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233029	Soil	BRC-BKG-11C-4-6	Bismuth 211 [f]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Bismuth 212	0.63 U			pCi/g	17-Jun-05	0.53	1.1
F5F210233029	Soil	BRC-BKG-11C-4-6	Bismuth 214	1.06			pCi/g	17-Jun-05	0.25	0.43
F5F210233029	Soil	BRC-BKG-11C-4-6	Cobalt 57	-0.014 U			pCi/g	17-Jun-05	0.032	0.055
F5F210233029	Soil	BRC-BKG-11C-4-6	Cobalt 60	-0.028 U			pCi/g	17-Jun-05	0.055	0.098
F5F210233029	Soil	BRC-BKG-11C-4-6	Lead 210	0.5 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233029	Soil	BRC-BKG-11C-4-6	Lead 211 [g]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Lead 212	1.65			pCi/g	17-Jun-05	0.25	0.13
F5F210233029	Soil	BRC-BKG-11C-4-6	Lead 214	1.1			pCi/g	17-Jun-05	0.26	0.18
F5F210233029	Soil	BRC-BKG-11C-4-6	Polonium 210 [h]	0.5 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233029	Soil	BRC-BKG-11C-4-6	Polonium 212 [i]	0.4 U			pCi/g	17-Jun-05	0.34	0.68
F5F210233029	Soil	BRC-BKG-11C-4-6	Polonium 214 [j]	1.06			pCi/g	17-Jun-05	0.25	0.18
F5F210233029	Soil	BRC-BKG-11C-4-6	Polonium 215 [k]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233029	Soil	BRC-BKG-11C-4-6	Polonium 216 [l]	1.65			pCi/g	17-Jun-05	0.25	0.13
HD3KV1C4	Soil	BRC-BKG-11C-4-6	Polonium 218 [m]	1.06			pCi/g	17-Jun-05	0.14	0.164
F5F210233029	Soil	BRC-BKG-11C-4-6	Potassium 40	22.6			pCi/g	17-Jun-05	3.4	0.8
F5F210233029	Soil	BRC-BKG-11C-4-6	Protactinium 234	-0.17 U			pCi/g	17-Jun-05	0.17	0.27
F5F210233029	Soil	BRC-BKG-11C-4-6	Radium 223 [n]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Radium 224 [o]	1.65			pCi/g	17-Jun-05	0.25	0.13
HD3KV1C4	Soil	BRC-BKG-11C-4-6	Radium 226	1.06			pCi/g	17-Jun-05	0.14	0.164
HD3KV1C5	Soil	BRC-BKG-11C-4-6	Radium 228	2.37	R	e	pCi/g	17-Jun-05	0.31	0.911
F5F210233029	Soil	BRC-BKG-11C-4-6	Thallium 207 [p]	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Thallium 208	0.57			pCi/g	17-Jun-05	0.14	0.09
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 227	-0.2 U			pCi/g	17-Jun-05	0.51	0.85
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 228	1.65			pCi/g	17-Jun-05	0.31	0.06
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 230	1.39			pCi/g	17-Jun-05	0.28	0.03
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 231	0.058 J	U	b	pCi/g	17-Jun-05	0.065	0.039
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 232	1.6			pCi/g	17-Jun-05	0.31	0.05
F5F210233029	Soil	BRC-BKG-11C-4-6	Thorium 234	0.92 U			pCi/g	17-Jun-05	0.72	1.3
F5F210233029	Soil	BRC-BKG-11C-4-6	Uranium 233/234	1.2	J+	b	pCi/g	17-Jun-05	0.26	0.06
F5F210233029	Soil	BRC-BKG-11C-4-6	Uranium 235	0.058 J	J	k	pCi/g	17-Jun-05	0.065	0.039
F5F210233029	Soil	BRC-BKG-11C-4-6	Uranium 238	0.95 J	J	k	pCi/g	17-Jun-05	0.23	0.06
F5F210233029	Soil	BRC-BKG-11C-4-6	Moisture (%)	5.5			percent	17-Jun-05		
F5F210233029	Soil	BRC-BKG-11C-4-6	Aluminum	6920 N			mg/kg	17-Jun-05		2
F5F210233029	Soil	BRC-BKG-11C-4-6	Antimony	N U			mg/kg	17-Jun-05		0.3298
F5F210233029	Soil	BRC-BKG-11C-4-6	Arsenic	4.2			mg/kg	17-Jun-05		0.1278
F5F210233029	Soil	BRC-BKG-11C-4-6	Barium	143 N			mg/kg	17-Jun-05		0.152
F5F210233029	Soil	BRC-BKG-11C-4-6	Beryllium	0.76			mg/kg	17-Jun-05		0.038
F5F210233029	Soil	BRC-BKG-11C-4-6	Boron	7.3	J+	b	mg/kg	17-Jun-05		3.2
F5F210233029	Soil	BRC-BKG-11C-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233029	Soil	BRC-BKG-11C-4-6	Calcium	42500 N			mg/kg	17-Jun-05		1.028
F5F210233029	Soil	BRC-BKG-11C-4-6	Chromium	9.1			mg/kg	17-Jun-05		0.1841
F5F210233029	Soil	BRC-BKG-11C-4-6	Cobalt	7.3			mg/kg	17-Jun-05		0.064
F5F210233029	Soil	BRC-BKG-11C-4-6	Copper	15.2			mg/kg	17-Jun-05		0.2205
F5F210233029	Soil	BRC-BKG-11C-4-6	Iron	11400 N			mg/kg	17-Jun-05		1.173
F5F210233029	Soil	BRC-BKG-11C-4-6	Lead	6.4			mg/kg	17-Jun-05		0.0506

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233029	Soil	BRC-BKG-11C-4-6	Lithium	15.9			mg/kg	17-Jun-05		0.2425
F5F210233029	Soil	BRC-BKG-11C-4-6	Magnesium	11800			mg/kg	17-Jun-05		1.176
F5F210233029	Soil	BRC-BKG-11C-4-6	Manganese	288 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233029	Soil	BRC-BKG-11C-4-6	Mercury	0.012 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233029	Soil	BRC-BKG-11C-4-6	Molybdenum	0.44 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233029	Soil	BRC-BKG-11C-4-6	Nickel	15.3			mg/kg	17-Jun-05		0.1295
F5F210233029	Soil	BRC-BKG-11C-4-6	Niobium	1.4 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233029	Soil	BRC-BKG-11C-4-6	Palladium	0.44			mg/kg	17-Jun-05		0.0765
F5F210233029	Soil	BRC-BKG-11C-4-6	Phosphorus	1190			mg/kg	17-Jun-05		1.913
F5F210233029	Soil	BRC-BKG-11C-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233029	Soil	BRC-BKG-11C-4-6	Potassium	1030			mg/kg	17-Jun-05		2.079
F5F210233029	Soil	BRC-BKG-11C-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233029	Soil	BRC-BKG-11C-4-6	Silicon	428 N			mg/kg	17-Jun-05		0.5289
F5F210233029	Soil	BRC-BKG-11C-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233029	Soil	BRC-BKG-11C-4-6	Sodium	682			mg/kg	17-Jun-05		7.567
F5F210233029	Soil	BRC-BKG-11C-4-6	Strontium	211			mg/kg	17-Jun-05		0.0735
F5F210233029	Soil	BRC-BKG-11C-4-6	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233029	Soil	BRC-BKG-11C-4-6	Tin	0.4 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233029	Soil	BRC-BKG-11C-4-6	Titanium	461 N			mg/kg	17-Jun-05		0.1175
F5F210233029	Soil	BRC-BKG-11C-4-6	Tungsten	0.75 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233029	Soil	BRC-BKG-11C-4-6	Uranium	1.1			mg/kg	17-Jun-05		0.038
F5F210233029	Soil	BRC-BKG-11C-4-6	Vanadium	36.4 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233029	Soil	BRC-BKG-11C-4-6	Zinc	31.1			mg/kg	17-Jun-05		0.2207
F5F210233029	Soil	BRC-BKG-11C-4-6	Zirconium	117 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233030	Soil	BRC-BKG-11C-9-11	Chloride	42.4 J			mg/kg	17-Jun-05		0.25
F5F210233030	Soil	BRC-BKG-11C-9-11	Fluoride	0.24 B	U	b	mg/kg	17-Jun-05		0.051
F5F210233030	Soil	BRC-BKG-11C-9-11	Nitrate	0.64	J	h	mg/kg	17-Jun-05		0.1
F5F210233030	Soil	BRC-BKG-11C-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233030	Soil	BRC-BKG-11C-9-11	Sulfate	139			mg/kg	17-Jun-05		0.612
F5F210233030	Soil	BRC-BKG-11C-9-11	CEC	9.1			meq/100g	17-Jun-05		
F5F210233030	Soil	BRC-BKG-11C-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233030	Soil	BRC-BKG-11C-9-11	pH (solid)	8.2	J	h	none	17-Jun-05		
F5F210233030	Soil	BRC-BKG-11C-9-11	Actinium 227 [d]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233030	Soil	BRC-BKG-11C-9-11	Actinium 228	1.4			pCi/g	17-Jun-05	0.59	0.39
F5F210233030	Soil	BRC-BKG-11C-9-11	Bismuth 210 [e]	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233030	Soil	BRC-BKG-11C-9-11	Bismuth 211 [f]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Bismuth 212	0.83			pCi/g	17-Jun-05	0.55	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Bismuth 214	1.62			pCi/g	17-Jun-05	0.3	0.15
F5F210233030	Soil	BRC-BKG-11C-9-11	Cobalt 57	0.019 U			pCi/g	17-Jun-05	0.029	0.052
F5F210233030	Soil	BRC-BKG-11C-9-11	Cobalt 60	0.004 U			pCi/g	17-Jun-05	0.06	0.12
F5F210233030	Soil	BRC-BKG-11C-9-11	Lead 210	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233030	Soil	BRC-BKG-11C-9-11	Lead 211 [g]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Lead 212	1.51			pCi/g	17-Jun-05	0.23	0.12
F5F210233030	Soil	BRC-BKG-11C-9-11	Lead 214	1.48			pCi/g	17-Jun-05	0.26	0.15
F5F210233030	Soil	BRC-BKG-11C-9-11	Polonium 210 [h]	1.7 U			pCi/g	17-Jun-05	1.1	2.1
F5F210233030	Soil	BRC-BKG-11C-9-11	Polonium 212 [i]	0.53			pCi/g	17-Jun-05	0.35	0.45
F5F210233030	Soil	BRC-BKG-11C-9-11	Polonium 214 [j]	1.62			pCi/g	17-Jun-05	0.3	0.15
F5F210233030	Soil	BRC-BKG-11C-9-11	Polonium 215 [k]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Polonium 216 [l]	1.51			pCi/g	17-Jun-05	0.23	0.12
HD3KW1C4	Soil	BRC-BKG-11C-9-11	Polonium 218 [m]	1.87			pCi/g	17-Jun-05	0.22	0.105
F5F210233030	Soil	BRC-BKG-11C-9-11	Potassium 40	21			pCi/g	17-Jun-05	3.2	0.9
F5F210233030	Soil	BRC-BKG-11C-9-11	Protactinium 234	-0.11 U			pCi/g	17-Jun-05	0.15	0.25
F5F210233030	Soil	BRC-BKG-11C-9-11	Radium 223 [n]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Radium 224 [o]	1.51			pCi/g	17-Jun-05	0.23	0.12
HD3KW1C4	Soil	BRC-BKG-11C-9-11	Radium 226	1.87			pCi/g	17-Jun-05	0.22	0.105
HD3KW1C5	Soil	BRC-BKG-11C-9-11	Radium 228	1.68 J	U	k, e, b	pCi/g	17-Jun-05	0.23	0.69
F5F210233030	Soil	BRC-BKG-11C-9-11	Thallium 207 [p]	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Thallium 208	0.41			pCi/g	17-Jun-05	0.12	0.09
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 227	-0.06 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 228	1.28			pCi/g	17-Jun-05	0.25	0.07
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 230	2.32			pCi/g	17-Jun-05	0.36	0.04
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 231	0.18 J	J+	b	pCi/g	17-Jun-05	0.11	0.1
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 232	1.25			pCi/g	17-Jun-05	0.24	0.03
F5F210233030	Soil	BRC-BKG-11C-9-11	Thorium 234	1.8			pCi/g	17-Jun-05	0.53	0.92
F5F210233030	Soil	BRC-BKG-11C-9-11	Uranium 233/234	2.73			pCi/g	17-Jun-05	0.44	0.11
F5F210233030	Soil	BRC-BKG-11C-9-11	Uranium 235	0.18 J	J	k	pCi/g	17-Jun-05	0.11	0.1

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233030	Soil	BRC-BKG-11C-9-11	Uranium 238	2.21			pCi/g	17-Jun-05	0.38	0.07
F5F210233030	Soil	BRC-BKG-11C-9-11	Moisture (%)	3.6			percent	17-Jun-05		
F5F210233030	Soil	BRC-BKG-11C-9-11	Aluminum	6730 N			mg/kg	17-Jun-05		2
F5F210233030	Soil	BRC-BKG-11C-9-11	Antimony	N U			mg/kg	17-Jun-05		0.3298
F5F210233030	Soil	BRC-BKG-11C-9-11	Arsenic	6.7			mg/kg	17-Jun-05		0.1278
F5F210233030	Soil	BRC-BKG-11C-9-11	Barium	88.9 N			mg/kg	17-Jun-05		0.152
F5F210233030	Soil	BRC-BKG-11C-9-11	Beryllium	0.72			mg/kg	17-Jun-05		0.038
F5F210233030	Soil	BRC-BKG-11C-9-11	Boron	8.5	J+	b	mg/kg	17-Jun-05		3.2
F5F210233030	Soil	BRC-BKG-11C-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233030	Soil	BRC-BKG-11C-9-11	Calcium	49900 N			mg/kg	17-Jun-05		1.028
F5F210233030	Soil	BRC-BKG-11C-9-11	Chromium	9.1			mg/kg	17-Jun-05		0.1841
F5F210233030	Soil	BRC-BKG-11C-9-11	Cobalt	7.6			mg/kg	17-Jun-05		0.064
F5F210233030	Soil	BRC-BKG-11C-9-11	Copper	13.8			mg/kg	17-Jun-05		0.2205
F5F210233030	Soil	BRC-BKG-11C-9-11	Iron	10400 N			mg/kg	17-Jun-05		1.173
F5F210233030	Soil	BRC-BKG-11C-9-11	Lead	5.7			mg/kg	17-Jun-05		0.0506
F5F210233030	Soil	BRC-BKG-11C-9-11	Lithium	22.3			mg/kg	17-Jun-05		0.2425
F5F210233030	Soil	BRC-BKG-11C-9-11	Magnesium	14000			mg/kg	17-Jun-05		1.176
F5F210233030	Soil	BRC-BKG-11C-9-11	Manganese	287 N*	J	d	mg/kg	17-Jun-05		0.0131
F5F210233030	Soil	BRC-BKG-11C-9-11	Mercury	0.011 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233030	Soil	BRC-BKG-11C-9-11	Molybdenum	0.45 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233030	Soil	BRC-BKG-11C-9-11	Nickel	13.8			mg/kg	17-Jun-05		0.1295
F5F210233030	Soil	BRC-BKG-11C-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233030	Soil	BRC-BKG-11C-9-11	Palladium	0.75			mg/kg	17-Jun-05		0.0765
F5F210233030	Soil	BRC-BKG-11C-9-11	Phosphorus	1090			mg/kg	17-Jun-05		1.913
F5F210233030	Soil	BRC-BKG-11C-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233030	Soil	BRC-BKG-11C-9-11	Potassium	966			mg/kg	17-Jun-05		2.079
F5F210233030	Soil	BRC-BKG-11C-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233030	Soil	BRC-BKG-11C-9-11	Silicon	551 N			mg/kg	17-Jun-05		0.5289
F5F210233030	Soil	BRC-BKG-11C-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233030	Soil	BRC-BKG-11C-9-11	Sodium	802			mg/kg	17-Jun-05		7.567
F5F210233030	Soil	BRC-BKG-11C-9-11	Strontium	342			mg/kg	17-Jun-05		0.0735
F5F210233030	Soil	BRC-BKG-11C-9-11	Thallium	U			mg/kg	17-Jun-05		0.5428
F5F210233030	Soil	BRC-BKG-11C-9-11	Tin	0.34 B	J	g	mg/kg	17-Jun-05		0.187

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233030	Soil	BRC-BKG-11C-9-11	Titanium	402 N			mg/kg	17-Jun-05		0.1175
F5F210233030	Soil	BRC-BKG-11C-9-11	Tungsten	0.87 BE	UJ	b, j	mg/kg	17-Jun-05		0.0175
F5F210233030	Soil	BRC-BKG-11C-9-11	Uranium	2.3			mg/kg	17-Jun-05		0.038
F5F210233030	Soil	BRC-BKG-11C-9-11	Vanadium	40.3 E	J	j	mg/kg	17-Jun-05		0.5535
F5F210233030	Soil	BRC-BKG-11C-9-11	Zinc	29.4			mg/kg	17-Jun-05		0.2207
F5F210233030	Soil	BRC-BKG-11C-9-11	Zirconium	103 E	J	j	mg/kg	17-Jun-05		0.0874
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Chloride	0.93 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Nitrate	0.51	J	h	mg/kg	17-Jun-05		0.1
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Sulfate	3.4 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233011	Soil	BRC-BKG-12A-0-0.5	CEC	7.3			meq/100g	17-Jun-05		
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233011	Soil	BRC-BKG-12A-0-0.5	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Actinium 227 [d]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Actinium 228	1.42			pCi/g	17-Jun-05	0.54	0.35
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	17-Jun-05	1	1.9
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Bismuth 211 [f]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Bismuth 212	0.93 U			pCi/g	17-Jun-05	0.47	0.98
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Bismuth 214	0.8			pCi/g	17-Jun-05	0.23	0.18
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Cobalt 57	-0.004 U			pCi/g	17-Jun-05	0.027	0.046
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Cobalt 60	0.014 U			pCi/g	17-Jun-05	0.054	0.11
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lead 210	0.4 U			pCi/g	17-Jun-05	1	1.9
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lead 211 [g]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lead 212	1.34			pCi/g	17-Jun-05	0.24	0.18
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lead 214	0.84			pCi/g	17-Jun-05	0.22	0.15
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Polonium 210 [h]	0.4 U			pCi/g	17-Jun-05	1	1.9
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Polonium 212 [i]	0.6 U			pCi/g	17-Jun-05	0.3	0.63
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Polonium 214 [j]	0.8			pCi/g	17-Jun-05	0.23	0.18
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Polonium 215 [k]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Polonium 216 [l]	1.34			pCi/g	17-Jun-05	0.24	0.18
HD3C31C4	Soil	BRC-BKG-12A-0-0.5	Polonium 218 [m]	0.835 J	J	k	pCi/g	17-Jun-05	0.13	0.188
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Potassium 40	31			pCi/g	17-Jun-05	4.2	0.6

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Protactinium 234	-0.13 U			pCi/g	17-Jun-05	0.14	0.23
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Radium 223 [n]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Radium 224 [o]	1.34			pCi/g	17-Jun-05	0.24	0.18
HD3C31C4	Soil	BRC-BKG-12A-0-0.5	Radium 226	0.835 J	J	k	pCi/g	17-Jun-05	0.13	0.188
HD3C31C5	Soil	BRC-BKG-12A-0-0.5	Radium 228	1.8 J	R	k, e	pCi/g	17-Jun-05	0.24	0.6
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thallium 207 [p]	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thallium 208	0.5			pCi/g	17-Jun-05	0.12	0.08
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 227	0.02 U			pCi/g	17-Jun-05	0.38	0.69
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 228	1.62			pCi/g	17-Jun-05	0.36	0.2
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 230	1.02			pCi/g	17-Jun-05	0.27	0.12
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 231	0.13 J	U	b	pCi/g	17-Jun-05	0.13	0.07
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 232	1.26			pCi/g	17-Jun-05	0.29	0.09
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thorium 234	0.82 U			pCi/g	17-Jun-05	0.39	0.93
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Uranium 233/234	0.71 J	U	b	pCi/g	17-Jun-05	0.27	0.14
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Uranium 235	0.13 J	J	k	pCi/g	17-Jun-05	0.13	0.07
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Uranium 238	0.94 J	J	k	pCi/g	17-Jun-05	0.31	0.12
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Moisture (%)	0.5			percent	17-Jun-05		
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Aluminum	6300 NE	J	j	mg/kg	17-Jun-05		2
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Antimony	0.2 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Arsenic	5.3			mg/kg	17-Jun-05		0.1278
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Barium	604 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Beryllium	0.61			mg/kg	17-Jun-05		0.038
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Boron	3.4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Calcium	16100 N			mg/kg	17-Jun-05		1.028
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Chromium	10.8			mg/kg	17-Jun-05		0.1841
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Cobalt	9.8 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Copper	18.5 N			mg/kg	17-Jun-05		0.2205
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Iron	13300 N			mg/kg	17-Jun-05		1.173
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lead	21 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Lithium	14.9			mg/kg	17-Jun-05		0.2425
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Magnesium	6650 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Manganese	1090 N			mg/kg	17-Jun-05		0.0131

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Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Mercury	0.017 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Molybdenum	1.1			mg/kg	17-Jun-05		0.241
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Nickel	13.8 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Niobium	1.1 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Palladium	0.22			mg/kg	17-Jun-05		0.0765
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Phosphorus	804			mg/kg	17-Jun-05		1.913
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Potassium	1840 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Selenium	0.23 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Silicon	798 N			mg/kg	17-Jun-05		0.5289
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Sodium	123			mg/kg	17-Jun-05		7.567
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Strontium	97.3			mg/kg	17-Jun-05		0.0735
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Thallium	1			mg/kg	17-Jun-05		0.5428
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Tin	0.33 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Titanium	299 N			mg/kg	17-Jun-05		0.1175
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Tungsten	0.9 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Uranium	0.51 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Vanadium	26			mg/kg	17-Jun-05		0.5535
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Zinc	34.6			mg/kg	17-Jun-05		0.2207
F5F210233011	Soil	BRC-BKG-12A-0-0.5	Zirconium	66.1			mg/kg	17-Jun-05		0.0874
F5F210233012	Soil	BRC-BKG-12A-4-6	Chloride	3.1			mg/kg	17-Jun-05		0.25
F5F210233012	Soil	BRC-BKG-12A-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233012	Soil	BRC-BKG-12A-4-6	Nitrate	1	J	h	mg/kg	17-Jun-05		0.1
F5F210233012	Soil	BRC-BKG-12A-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233012	Soil	BRC-BKG-12A-4-6	Sulfate	7.9			mg/kg	17-Jun-05		0.612
F5F210233012	Soil	BRC-BKG-12A-4-6	CEC	6.2			meq/100g	17-Jun-05		
F5F210233012	Soil	BRC-BKG-12A-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233012	Soil	BRC-BKG-12A-4-6	pH (solid)	8.8	J	h	none	17-Jun-05		
F5F210233012	Soil	BRC-BKG-12A-4-6	Actinium 227 [d]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Actinium 228	1.34			pCi/g	17-Jun-05	0.53	0.37
F5F210233012	Soil	BRC-BKG-12A-4-6	Bismuth 210 [e]	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233012	Soil	BRC-BKG-12A-4-6	Bismuth 211 [f]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233012	Soil	BRC-BKG-12A-4-6	Bismuth 212	1.16			pCi/g	17-Jun-05	0.54	0.69
F5F210233012	Soil	BRC-BKG-12A-4-6	Bismuth 214	0.71			pCi/g	17-Jun-05	0.21	0.18
F5F210233012	Soil	BRC-BKG-12A-4-6	Cobalt 57	-0.036 U			pCi/g	17-Jun-05	0.031	0.049
F5F210233012	Soil	BRC-BKG-12A-4-6	Cobalt 60	-0.004 U			pCi/g	17-Jun-05	0.057	0.11
F5F210233012	Soil	BRC-BKG-12A-4-6	Lead 210	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233012	Soil	BRC-BKG-12A-4-6	Lead 211 [g]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Lead 212	1.22			pCi/g	17-Jun-05	0.22	0.17
F5F210233012	Soil	BRC-BKG-12A-4-6	Lead 214	0.66			pCi/g	17-Jun-05	0.18	0.15
F5F210233012	Soil	BRC-BKG-12A-4-6	Polonium 210 [h]	0.6 U			pCi/g	17-Jun-05	1.2	2.2
F5F210233012	Soil	BRC-BKG-12A-4-6	Polonium 212 [i]	0.74			pCi/g	17-Jun-05	0.34	0.44
F5F210233012	Soil	BRC-BKG-12A-4-6	Polonium 214 [j]	0.71			pCi/g	17-Jun-05	0.21	0.18
F5F210233012	Soil	BRC-BKG-12A-4-6	Polonium 215 [k]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Polonium 216 [l]	1.22			pCi/g	17-Jun-05	0.22	0.17
HD3C51C4	Soil	BRC-BKG-12A-4-6	Polonium 218 [m]	0.756 J	U	k, b	pCi/g	17-Jun-05	0.12	0.197
F5F210233012	Soil	BRC-BKG-12A-4-6	Potassium 40	31			pCi/g	17-Jun-05	4.4	0.6
F5F210233012	Soil	BRC-BKG-12A-4-6	Protactinium 234	-0.17 U			pCi/g	17-Jun-05	0.17	0.27
F5F210233012	Soil	BRC-BKG-12A-4-6	Radium 223 [n]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Radium 224 [o]	1.22			pCi/g	17-Jun-05	0.22	0.17
HD3C51C4	Soil	BRC-BKG-12A-4-6	Radium 226	0.756 J	U	k, b	pCi/g	17-Jun-05	0.12	0.197
HD3C51C5	Soil	BRC-BKG-12A-4-6	Radium 228	2.14			pCi/g	17-Jun-05	0.26	0.716
F5F210233012	Soil	BRC-BKG-12A-4-6	Thallium 207 [p]	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Thallium 208	0.51			pCi/g	17-Jun-05	0.12	0.09
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 227	-0.32 U			pCi/g	17-Jun-05	0.42	0.7
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 228	1.28			pCi/g	17-Jun-05	0.29	0.15
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 230	0.84 J	J	k	pCi/g	17-Jun-05	0.21	0.06
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 231	0.021 U			pCi/g	17-Jun-05	0.059	0.057
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 232	1.62			pCi/g	17-Jun-05	0.31	0.07
F5F210233012	Soil	BRC-BKG-12A-4-6	Thorium 234	0.96 U			pCi/g	17-Jun-05	0.69	1.2
F5F210233012	Soil	BRC-BKG-12A-4-6	Uranium 233/234	0.75 J	U	b	pCi/g	17-Jun-05	0.24	0.08
F5F210233012	Soil	BRC-BKG-12A-4-6	Uranium 235	0.021 U			pCi/g	17-Jun-05	0.059	0.057
F5F210233012	Soil	BRC-BKG-12A-4-6	Uranium 238	0.82 J	J	k	pCi/g	17-Jun-05	0.25	0.08
F5F210233012	Soil	BRC-BKG-12A-4-6	Moisture (%)	3.8			percent	17-Jun-05		
F5F210233012	Soil	BRC-BKG-12A-4-6	Aluminum	4840 NE	J	j	mg/kg	17-Jun-05		2

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233012	Soil	BRC-BKG-12A-4-6	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298
F5F210233012	Soil	BRC-BKG-12A-4-6	Arsenic	4.8			mg/kg	17-Jun-05		0.1278
F5F210233012	Soil	BRC-BKG-12A-4-6	Barium	346 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233012	Soil	BRC-BKG-12A-4-6	Beryllium	0.46 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233012	Soil	BRC-BKG-12A-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233012	Soil	BRC-BKG-12A-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233012	Soil	BRC-BKG-12A-4-6	Calcium	13200 N			mg/kg	17-Jun-05		1.028
F5F210233012	Soil	BRC-BKG-12A-4-6	Chromium	10.2			mg/kg	17-Jun-05		0.1841
F5F210233012	Soil	BRC-BKG-12A-4-6	Cobalt	6 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233012	Soil	BRC-BKG-12A-4-6	Copper	17.5 N			mg/kg	17-Jun-05		0.2205
F5F210233012	Soil	BRC-BKG-12A-4-6	Iron	11100 N			mg/kg	17-Jun-05		1.173
F5F210233012	Soil	BRC-BKG-12A-4-6	Lead	9.1 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233012	Soil	BRC-BKG-12A-4-6	Lithium	11.2			mg/kg	17-Jun-05		0.2425
F5F210233012	Soil	BRC-BKG-12A-4-6	Magnesium	5100 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233012	Soil	BRC-BKG-12A-4-6	Manganese	394 N			mg/kg	17-Jun-05		0.0131
F5F210233012	Soil	BRC-BKG-12A-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233012	Soil	BRC-BKG-12A-4-6	Molybdenum	1.3			mg/kg	17-Jun-05		0.241
F5F210233012	Soil	BRC-BKG-12A-4-6	Nickel	11.3 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233012	Soil	BRC-BKG-12A-4-6	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233012	Soil	BRC-BKG-12A-4-6	Palladium	0.14			mg/kg	17-Jun-05		0.0765
F5F210233012	Soil	BRC-BKG-12A-4-6	Phosphorus	906			mg/kg	17-Jun-05		1.913
F5F210233012	Soil	BRC-BKG-12A-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233012	Soil	BRC-BKG-12A-4-6	Potassium	1240 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233012	Soil	BRC-BKG-12A-4-6	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233012	Soil	BRC-BKG-12A-4-6	Silicon	563 N			mg/kg	17-Jun-05		0.5289
F5F210233012	Soil	BRC-BKG-12A-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233012	Soil	BRC-BKG-12A-4-6	Sodium	196			mg/kg	17-Jun-05		7.567
F5F210233012	Soil	BRC-BKG-12A-4-6	Strontium	69			mg/kg	17-Jun-05		0.0735
F5F210233012	Soil	BRC-BKG-12A-4-6	Thallium	1.1			mg/kg	17-Jun-05		0.5428
F5F210233012	Soil	BRC-BKG-12A-4-6	Tin	0.2 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233012	Soil	BRC-BKG-12A-4-6	Titanium	219 N			mg/kg	17-Jun-05		0.1175
F5F210233012	Soil	BRC-BKG-12A-4-6	Tungsten	0.78 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233012	Soil	BRC-BKG-12A-4-6	Uranium	0.67 B	J	g	mg/kg	17-Jun-05		0.038

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233012	Soil	BRC-BKG-12A-4-6	Vanadium	21.3			mg/kg	17-Jun-05		0.5535
F5F210233012	Soil	BRC-BKG-12A-4-6	Zinc	24			mg/kg	17-Jun-05		0.2207
F5F210233012	Soil	BRC-BKG-12A-4-6	Zirconium	78.9			mg/kg	17-Jun-05		0.0874
F5F210233013	Soil	BRC-BKG-12A-9-11	Chloride	20			mg/kg	17-Jun-05		0.25
F5F210233013	Soil	BRC-BKG-12A-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233013	Soil	BRC-BKG-12A-9-11	Nitrate	0.2 B	J	h, g	mg/kg	17-Jun-05		0.1
F5F210233013	Soil	BRC-BKG-12A-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233013	Soil	BRC-BKG-12A-9-11	Sulfate	27.6			mg/kg	17-Jun-05		0.612
F5F210233013	Soil	BRC-BKG-12A-9-11	CEC	6.8			meq/100g	17-Jun-05		
F5F210233013	Soil	BRC-BKG-12A-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233013	Soil	BRC-BKG-12A-9-11	pH (solid)	8.5	J	h	none	17-Jun-05		
F5F210233013	Soil	BRC-BKG-12A-9-11	Actinium 227 [d]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Actinium 228	1.26			pCi/g	17-Jun-05	0.64	0.35
F5F210233013	Soil	BRC-BKG-12A-9-11	Bismuth 210 [e]	-0.6 U			pCi/g	17-Jun-05	1.1	1.9
F5F210233013	Soil	BRC-BKG-12A-9-11	Bismuth 211 [f]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Bismuth 212	0.58 U			pCi/g	17-Jun-05	0.45	0.9
F5F210233013	Soil	BRC-BKG-12A-9-11	Bismuth 214	0.52			pCi/g	17-Jun-05	0.16	0.18
F5F210233013	Soil	BRC-BKG-12A-9-11	Cobalt 57	-0.013 U			pCi/g	17-Jun-05	0.03	0.049
F5F210233013	Soil	BRC-BKG-12A-9-11	Cobalt 60	0.082 U			pCi/g	17-Jun-05	0.06	0.13
F5F210233013	Soil	BRC-BKG-12A-9-11	Lead 210	-0.6 U			pCi/g	17-Jun-05	1.1	1.9
F5F210233013	Soil	BRC-BKG-12A-9-11	Lead 211 [g]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Lead 212	1.11			pCi/g	17-Jun-05	0.21	0.18
F5F210233013	Soil	BRC-BKG-12A-9-11	Lead 214	0.61			pCi/g	17-Jun-05	0.19	0.16
F5F210233013	Soil	BRC-BKG-12A-9-11	Polonium 210 [h]	-0.6 U			pCi/g	17-Jun-05	1.1	1.9
F5F210233013	Soil	BRC-BKG-12A-9-11	Polonium 212 [i]	0.37 U			pCi/g	17-Jun-05	0.29	0.58
F5F210233013	Soil	BRC-BKG-12A-9-11	Polonium 214 [j]	0.52			pCi/g	17-Jun-05	0.16	0.18
F5F210233013	Soil	BRC-BKG-12A-9-11	Polonium 215 [k]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Polonium 216 [l]	1.11			pCi/g	17-Jun-05	0.21	0.18
HD3C61C4	Soil	BRC-BKG-12A-9-11	Polonium 218 [m]	0.784 J	J	k, n	pCi/g	17-Jun-05	0.14	0.174
F5F210233013	Soil	BRC-BKG-12A-9-11	Potassium 40	31.1			pCi/g	17-Jun-05	4.3	0.7
F5F210233013	Soil	BRC-BKG-12A-9-11	Protactinium 234	-0.04 U			pCi/g	17-Jun-05	0.14	0.25
F5F210233013	Soil	BRC-BKG-12A-9-11	Radium 223 [n]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Radium 224 [o]	1.11			pCi/g	17-Jun-05	0.21	0.18

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
HD3C61C4	Soil	BRC-BKG-12A-9-11	Radium 226	0.784 J	J	k, n	pCi/g	17-Jun-05	0.14	0.174
HD3C61C5	Soil	BRC-BKG-12A-9-11	Radium 228	1.71 J	R	k, e	pCi/g	17-Jun-05	0.25	0.666
F5F210233013	Soil	BRC-BKG-12A-9-11	Thallium 207 [p]	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Thallium 208	0.39			pCi/g	17-Jun-05	0.12	0.08
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 227	-0.2 U			pCi/g	17-Jun-05	0.41	0.69
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 228	1.23			pCi/g	17-Jun-05	0.27	0.14
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 230	0.78 J	J	k	pCi/g	17-Jun-05	0.2	0.07
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 231	0.053 U			pCi/g	17-Jun-05	0.073	0.098
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 232	1.26			pCi/g	17-Jun-05	0.26	0.05
F5F210233013	Soil	BRC-BKG-12A-9-11	Thorium 234	1.3			pCi/g	17-Jun-05	0.62	1
F5F210233013	Soil	BRC-BKG-12A-9-11	Uranium 233/234	0.58 J	U	b	pCi/g	17-Jun-05	0.18	0.11
F5F210233013	Soil	BRC-BKG-12A-9-11	Uranium 235	0.053 U			pCi/g	17-Jun-05	0.073	0.098
F5F210233013	Soil	BRC-BKG-12A-9-11	Uranium 238	0.58 J	J	k	pCi/g	17-Jun-05	0.18	0.08
F5F210233013	Soil	BRC-BKG-12A-9-11	Moisture (%)	2.9			percent	17-Jun-05		
F5F210233013	Soil	BRC-BKG-12A-9-11	Aluminum	6150 NE	J	j	mg/kg	17-Jun-05		2
F5F210233013	Soil	BRC-BKG-12A-9-11	Antimony	0.25 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233013	Soil	BRC-BKG-12A-9-11	Arsenic	5.8			mg/kg	17-Jun-05		0.1278
F5F210233013	Soil	BRC-BKG-12A-9-11	Barium	836 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233013	Soil	BRC-BKG-12A-9-11	Beryllium	0.56			mg/kg	17-Jun-05		0.038
F5F210233013	Soil	BRC-BKG-12A-9-11	Boron	4.4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233013	Soil	BRC-BKG-12A-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233013	Soil	BRC-BKG-12A-9-11	Calcium	30400 N			mg/kg	17-Jun-05		1.028
F5F210233013	Soil	BRC-BKG-12A-9-11	Chromium	9.6			mg/kg	17-Jun-05		0.1841
F5F210233013	Soil	BRC-BKG-12A-9-11	Cobalt	5.4 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233013	Soil	BRC-BKG-12A-9-11	Copper	18.3 N			mg/kg	17-Jun-05		0.2205
F5F210233013	Soil	BRC-BKG-12A-9-11	Iron	11400 N			mg/kg	17-Jun-05		1.173
F5F210233013	Soil	BRC-BKG-12A-9-11	Lead	11.7 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233013	Soil	BRC-BKG-12A-9-11	Lithium	13.2			mg/kg	17-Jun-05		0.2425
F5F210233013	Soil	BRC-BKG-12A-9-11	Magnesium	5240 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233013	Soil	BRC-BKG-12A-9-11	Manganese	488 N			mg/kg	17-Jun-05		0.0131
F5F210233013	Soil	BRC-BKG-12A-9-11	Mercury	0.014 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233013	Soil	BRC-BKG-12A-9-11	Molybdenum	0.9 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233013	Soil	BRC-BKG-12A-9-11	Nickel	11.2 E	J	j	mg/kg	17-Jun-05		0.1295

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233013	Soil	BRC-BKG-12A-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233013	Soil	BRC-BKG-12A-9-11	Palladium	0.4			mg/kg	17-Jun-05		0.0765
F5F210233013	Soil	BRC-BKG-12A-9-11	Phosphorus	722			mg/kg	17-Jun-05		1.913
F5F210233013	Soil	BRC-BKG-12A-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233013	Soil	BRC-BKG-12A-9-11	Potassium	1380 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233013	Soil	BRC-BKG-12A-9-11	Selenium	0.39 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233013	Soil	BRC-BKG-12A-9-11	Silicon	680 N			mg/kg	17-Jun-05		0.5289
F5F210233013	Soil	BRC-BKG-12A-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233013	Soil	BRC-BKG-12A-9-11	Sodium	901			mg/kg	17-Jun-05		7.567
F5F210233013	Soil	BRC-BKG-12A-9-11	Strontium	199			mg/kg	17-Jun-05		0.0735
F5F210233013	Soil	BRC-BKG-12A-9-11	Thallium	0.93 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233013	Soil	BRC-BKG-12A-9-11	Tin	U			mg/kg	17-Jun-05		0.187
F5F210233013	Soil	BRC-BKG-12A-9-11	Titanium	221 N			mg/kg	17-Jun-05		0.1175
F5F210233013	Soil	BRC-BKG-12A-9-11	Tungsten	0.96 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233013	Soil	BRC-BKG-12A-9-11	Uranium	0.73 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233013	Soil	BRC-BKG-12A-9-11	Vanadium	21.7			mg/kg	17-Jun-05		0.5535
F5F210233013	Soil	BRC-BKG-12A-9-11	Zinc	23.9			mg/kg	17-Jun-05		0.2207
F5F210233013	Soil	BRC-BKG-12A-9-11	Zirconium	69			mg/kg	17-Jun-05		0.0874
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Chloride	1 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Nitrate	U	UJ	h	mg/kg	17-Jun-05		0.1
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Sulfate	2.7 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233014	Soil	BRC-BKG-12B-0-0.5	CEC	10			meq/100g	17-Jun-05		
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233014	Soil	BRC-BKG-12B-0-0.5	pH (solid)	8.4	J	h	none	17-Jun-05		
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Actinium 227 [d]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Actinium 228	1.47			pCi/g	17-Jun-05	0.57	0.35
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Bismuth 210 [e]	1.5 U			pCi/g	17-Jun-05	1.3	2.5
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Bismuth 211 [f]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Bismuth 212	0.71			pCi/g	17-Jun-05	0.59	0.68
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Bismuth 214	0.7			pCi/g	17-Jun-05	0.24	0.39
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Cobalt 57	0.012 U			pCi/g	17-Jun-05	0.031	0.056

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Cobalt 60	-0.025 U			pCi/g	17-Jun-05	0.063	0.11
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lead 210	1.5 U			pCi/g	17-Jun-05	1.3	2.5
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lead 211 [g]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lead 212	1.08			pCi/g	17-Jun-05	0.22	0.18
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lead 214	0.94			pCi/g	17-Jun-05	0.21	0.17
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Polonium 210 [h]	1.5 U			pCi/g	17-Jun-05	1.3	2.5
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Polonium 212 [i]	0.46			pCi/g	17-Jun-05	0.38	0.44
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Polonium 214 [j]	0.7			pCi/g	17-Jun-05	0.23	0.22
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Polonium 215 [k]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Polonium 216 [l]	1.08			pCi/g	17-Jun-05	0.22	0.18
HD3C71GN	Soil	BRC-BKG-12B-0-0.5	Polonium 218 [m]	0.872 J	U	k, b	pCi/g	17-Jun-05	0.14	0.226
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Potassium 40	31			pCi/g	17-Jun-05	4.4	0.7
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Protactinium 234	-0.12 U			pCi/g	17-Jun-05	0.16	0.27
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Radium 223 [n]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Radium 224 [o]	1.08			pCi/g	17-Jun-05	0.22	0.18
HD3C71GN	Soil	BRC-BKG-12B-0-0.5	Radium 226	0.872 J	U	k, b	pCi/g	17-Jun-05	0.14	0.226
HD3C71GP	Soil	BRC-BKG-12B-0-0.5	Radium 228	2.94			pCi/g	17-Jun-05	0.3	0.71
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thallium 207 [p]	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thallium 208	0.49			pCi/g	17-Jun-05	0.12	0.09
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 227	0.14 U			pCi/g	17-Jun-05	0.45	0.81
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 228	1.48			pCi/g	17-Jun-05	0.29	0.13
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 230	0.78 J	J	k	pCi/g	17-Jun-05	0.2	0.09
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 231	0.054 U			pCi/g	17-Jun-05	0.077	0.12
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 232	1.46			pCi/g	17-Jun-05	0.28	0.05
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thorium 234	0.7 U			pCi/g	17-Jun-05	0.67	1.2
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Uranium 233/234	0.47 J	U	b	pCi/g	17-Jun-05	0.19	0.13
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Uranium 235	0.035 U			pCi/g	17-Jun-05	0.077	0.12
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Uranium 238	0.57 J	J	k	pCi/g	17-Jun-05	0.21	0.12
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Moisture (%)	0.38			percent	17-Jun-05		
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Aluminum	6240 NE	J	j	mg/kg	17-Jun-05		2
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Antimony	0.22 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Arsenic	5.9			mg/kg	17-Jun-05		0.1278
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Barium	369 NE	J+	j, e	mg/kg	17-Jun-05		0.152

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Beryllium	0.62			mg/kg	17-Jun-05		0.038
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Calcium	16600 N			mg/kg	17-Jun-05		1.028
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Chromium	11.7			mg/kg	17-Jun-05		0.1841
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Cobalt	6.1 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Copper	17.6 N			mg/kg	17-Jun-05		0.2205
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Iron	14000 N			mg/kg	17-Jun-05		1.173
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lead	17.5 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Lithium	13.5			mg/kg	17-Jun-05		0.2425
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Magnesium	6880 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Manganese	455 N			mg/kg	17-Jun-05		0.0131
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Molybdenum	0.83 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Nickel	12.1 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Palladium	0.19			mg/kg	17-Jun-05		0.0765
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Phosphorus	745			mg/kg	17-Jun-05		1.913
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Potassium	1840 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Selenium	0.59			mg/kg	17-Jun-05		0.1579
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Silicon	761 N			mg/kg	17-Jun-05		0.5289
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Sodium	146			mg/kg	17-Jun-05		7.567
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Strontium	91.4			mg/kg	17-Jun-05		0.0735
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Thallium	1.4			mg/kg	17-Jun-05		0.5428
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Tin	0.34 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Titanium	313 N			mg/kg	17-Jun-05		0.1175
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Tungsten	0.68 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Uranium	0.63 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Vanadium	24.2			mg/kg	17-Jun-05		0.5535
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Zinc	35.3			mg/kg	17-Jun-05		0.2207
F5F210233014	Soil	BRC-BKG-12B-0-0.5	Zirconium	63.5			mg/kg	17-Jun-05		0.0874

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233015	Soil	BRC-BKG-12B-4-6	Chloride	1.7 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233015	Soil	BRC-BKG-12B-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233015	Soil	BRC-BKG-12B-4-6	Nitrate	0.59	J	h	mg/kg	17-Jun-05		0.1
F5F210233015	Soil	BRC-BKG-12B-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233015	Soil	BRC-BKG-12B-4-6	Sulfate	6			mg/kg	17-Jun-05		0.612
F5F210233015	Soil	BRC-BKG-12B-4-6	CEC	8.8			meq/100g	17-Jun-05		
F5F210233015	Soil	BRC-BKG-12B-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233015	Soil	BRC-BKG-12B-4-6	pH (solid)	9	J	h	none	17-Jun-05		
F5F210233015	Soil	BRC-BKG-12B-4-6	Actinium 227 [d]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Actinium 228	1.74			pCi/g	17-Jun-05	0.65	0.34
F5F210233015	Soil	BRC-BKG-12B-4-6	Bismuth 210 [e]	-0.27 U			pCi/g	17-Jun-05	0.9	1.6
F5F210233015	Soil	BRC-BKG-12B-4-6	Bismuth 211 [f]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Bismuth 212	1.12			pCi/g	17-Jun-05	0.47	0.98
F5F210233015	Soil	BRC-BKG-12B-4-6	Bismuth 214	0.8			pCi/g	17-Jun-05	0.22	0.35
F5F210233015	Soil	BRC-BKG-12B-4-6	Cobalt 57	0.001 U			pCi/g	17-Jun-05	0.025	0.042
F5F210233015	Soil	BRC-BKG-12B-4-6	Cobalt 60	0.018 U			pCi/g	17-Jun-05	0.043	0.09
F5F210233015	Soil	BRC-BKG-12B-4-6	Lead 210	-0.27 U			pCi/g	17-Jun-05	0.9	1.6
F5F210233015	Soil	BRC-BKG-12B-4-6	Lead 211 [g]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Lead 212	1.21			pCi/g	17-Jun-05	0.22	0.14
F5F210233015	Soil	BRC-BKG-12B-4-6	Lead 214	0.64			pCi/g	17-Jun-05	0.17	0.14
F5F210233015	Soil	BRC-BKG-12B-4-6	Polonium 210 [h]	-0.27 U			pCi/g	17-Jun-05	0.9	1.6
F5F210233015	Soil	BRC-BKG-12B-4-6	Polonium 212 [i]	0.72			pCi/g	17-Jun-05	0.3	0.63
F5F210233015	Soil	BRC-BKG-12B-4-6	Polonium 214 [j]	0.8			pCi/g	17-Jun-05	0.22	0.15
F5F210233015	Soil	BRC-BKG-12B-4-6	Polonium 215 [k]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Polonium 216 [l]	1.21			pCi/g	17-Jun-05	0.22	0.14
HD3C91C5	Soil	BRC-BKG-12B-4-6	Polonium 218 [m]	0.592 J	U	k, b	pCi/g	17-Jun-05	0.12	0.239
F5F210233015	Soil	BRC-BKG-12B-4-6	Potassium 40	32.6			pCi/g	17-Jun-05	4.3	0.7
F5F210233015	Soil	BRC-BKG-12B-4-6	Protactinium 234	-0.03 U			pCi/g	17-Jun-05	0.13	0.23
F5F210233015	Soil	BRC-BKG-12B-4-6	Radium 223 [n]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Radium 224 [o]	1.21			pCi/g	17-Jun-05	0.22	0.14
HD3C91C5	Soil	BRC-BKG-12B-4-6	Radium 226	0.592 J	U	k, b	pCi/g	17-Jun-05	0.12	0.239
HD3C91C6	Soil	BRC-BKG-12B-4-6	Radium 228	2.42			pCi/g	17-Jun-05	0.28	0.742
F5F210233015	Soil	BRC-BKG-12B-4-6	Thallium 207 [p]	-0.03 U			pCi/g	17-Jun-05	0.38	0.66

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233015	Soil	BRC-BKG-12B-4-6	Thallium 208	0.43			pCi/g	17-Jun-05	0.1	0.07
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 227	-0.03 U			pCi/g	17-Jun-05	0.38	0.66
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 228	1.53			pCi/g	17-Jun-05	0.3	0.13
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 230	1.02			pCi/g	17-Jun-05	0.23	0.07
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 231	0.076 J	U	b	pCi/g	17-Jun-05	0.073	0.068
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 232	1.47			pCi/g	17-Jun-05	0.29	0.06
F5F210233015	Soil	BRC-BKG-12B-4-6	Thorium 234	1.42			pCi/g	17-Jun-05	0.45	0.76
F5F210233015	Soil	BRC-BKG-12B-4-6	Uranium 233/234	0.9 J	U	b	pCi/g	17-Jun-05	0.23	0.05
F5F210233015	Soil	BRC-BKG-12B-4-6	Uranium 235	0.076 J	J	k	pCi/g	17-Jun-05	0.073	0.068
F5F210233015	Soil	BRC-BKG-12B-4-6	Uranium 238	0.64 J	J	k	pCi/g	17-Jun-05	0.19	0.03
F5F210233015	Soil	BRC-BKG-12B-4-6	Moisture (%)	4.4			percent	17-Jun-05		
F5F210233015	Soil	BRC-BKG-12B-4-6	Aluminum	5090 NE	J	j	mg/kg	17-Jun-05		2
F5F210233015	Soil	BRC-BKG-12B-4-6	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298
F5F210233015	Soil	BRC-BKG-12B-4-6	Arsenic	5.7			mg/kg	17-Jun-05		0.1278
F5F210233015	Soil	BRC-BKG-12B-4-6	Barium	395 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233015	Soil	BRC-BKG-12B-4-6	Beryllium	0.52 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233015	Soil	BRC-BKG-12B-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233015	Soil	BRC-BKG-12B-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233015	Soil	BRC-BKG-12B-4-6	Calcium	9440 N			mg/kg	17-Jun-05		1.028
F5F210233015	Soil	BRC-BKG-12B-4-6	Chromium	8.8			mg/kg	17-Jun-05		0.1841
F5F210233015	Soil	BRC-BKG-12B-4-6	Cobalt	5.1 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233015	Soil	BRC-BKG-12B-4-6	Copper	30.5 N			mg/kg	17-Jun-05		0.2205
F5F210233015	Soil	BRC-BKG-12B-4-6	Iron	11200 N			mg/kg	17-Jun-05		1.173
F5F210233015	Soil	BRC-BKG-12B-4-6	Lead	12.4 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233015	Soil	BRC-BKG-12B-4-6	Lithium	10.9			mg/kg	17-Jun-05		0.2425
F5F210233015	Soil	BRC-BKG-12B-4-6	Magnesium	4580 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233015	Soil	BRC-BKG-12B-4-6	Manganese	414 N			mg/kg	17-Jun-05		0.0131
F5F210233015	Soil	BRC-BKG-12B-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233015	Soil	BRC-BKG-12B-4-6	Molybdenum	0.97 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233015	Soil	BRC-BKG-12B-4-6	Nickel	10 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233015	Soil	BRC-BKG-12B-4-6	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233015	Soil	BRC-BKG-12B-4-6	Palladium	0.19			mg/kg	17-Jun-05		0.0765
F5F210233015	Soil	BRC-BKG-12B-4-6	Phosphorus	984			mg/kg	17-Jun-05		1.913

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233015	Soil	BRC-BKG-12B-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233015	Soil	BRC-BKG-12B-4-6	Potassium	1240 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233015	Soil	BRC-BKG-12B-4-6	Selenium	0.4 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233015	Soil	BRC-BKG-12B-4-6	Silicon	690 N			mg/kg	17-Jun-05		0.5289
F5F210233015	Soil	BRC-BKG-12B-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233015	Soil	BRC-BKG-12B-4-6	Sodium	265			mg/kg	17-Jun-05		7.567
F5F210233015	Soil	BRC-BKG-12B-4-6	Strontium	84.4			mg/kg	17-Jun-05		0.0735
F5F210233015	Soil	BRC-BKG-12B-4-6	Thallium	1.3			mg/kg	17-Jun-05		0.5428
F5F210233015	Soil	BRC-BKG-12B-4-6	Tin	0.22 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233015	Soil	BRC-BKG-12B-4-6	Titanium	213 N			mg/kg	17-Jun-05		0.1175
F5F210233015	Soil	BRC-BKG-12B-4-6	Tungsten	0.71 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233015	Soil	BRC-BKG-12B-4-6	Uranium	0.74 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233015	Soil	BRC-BKG-12B-4-6	Vanadium	21.7			mg/kg	17-Jun-05		0.5535
F5F210233015	Soil	BRC-BKG-12B-4-6	Zinc	26.5			mg/kg	17-Jun-05		0.2207
F5F210233015	Soil	BRC-BKG-12B-4-6	Zirconium	92.9			mg/kg	17-Jun-05		0.0874
F5F210233016	Soil	BRC-BKG-12B-9-11	Chloride	37.7			mg/kg	17-Jun-05		0.25
F5F210233016	Soil	BRC-BKG-12B-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233016	Soil	BRC-BKG-12B-9-11	Nitrate	0.61	J	h	mg/kg	17-Jun-05		0.1
F5F210233016	Soil	BRC-BKG-12B-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233016	Soil	BRC-BKG-12B-9-11	Sulfate	19.3			mg/kg	17-Jun-05		0.612
F5F210233016	Soil	BRC-BKG-12B-9-11	CEC	10.8			meq/100g	17-Jun-05		
F5F210233016	Soil	BRC-BKG-12B-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233016	Soil	BRC-BKG-12B-9-11	pH (solid)	8.3	J	h	none	17-Jun-05		
F5F210233016	Soil	BRC-BKG-12B-9-11	Actinium 227 [d]	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Actinium 228	1.77			pCi/g	17-Jun-05	0.63	0.4
F5F210233016	Soil	BRC-BKG-12B-9-11	Bismuth 210 [e]	0.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233016	Soil	BRC-BKG-12B-9-11	Bismuth 211 [f]	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Bismuth 212	0.52 U			pCi/g	17-Jun-05	0.45	0.95
F5F210233016	Soil	BRC-BKG-12B-9-11	Bismuth 214	0.75			pCi/g	17-Jun-05	0.19	0.39
F5F210233016	Soil	BRC-BKG-12B-9-11	Cobalt 57	-0.008 U			pCi/g	17-Jun-05	0.031	0.053
F5F210233016	Soil	BRC-BKG-12B-9-11	Cobalt 60	-0.031 U			pCi/g	17-Jun-05	0.046	0.076
F5F210233016	Soil	BRC-BKG-12B-9-11	Lead 210	0.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233016	Soil	BRC-BKG-12B-9-11	Lead 211 [g]	0.01 U			pCi/g	17-Jun-05	0.4	0.71

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233016	Soil	BRC-BKG-12B-9-11	Lead 212	1.16			pCi/g	17-Jun-05	0.22	0.17
F5F210233016	Soil	BRC-BKG-12B-9-11	Lead 214	0.83			pCi/g	17-Jun-05	0.21	0.17
F5F210233016	Soil	BRC-BKG-12B-9-11	Polonium 210 [h]	0.7 U			pCi/g	17-Jun-05	1.2	2.3
F5F210233016	Soil	BRC-BKG-12B-9-11	Polonium 212 [i]	0.33 U			pCi/g	17-Jun-05	0.29	0.61
F5F210233016	Soil	BRC-BKG-12B-9-11	Polonium 214 [j]	0.75			pCi/g	17-Jun-05	0.19	0.17
F5F210233016	Soil	BRC-BKG-12B-9-11	Polonium 215 [k]	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Polonium 216 [l]	1.16			pCi/g	17-Jun-05	0.22	0.17
HD3DF1C4	Soil	BRC-BKG-12B-9-11	Polonium 218 [m]	0.926 J	J	k, n	pCi/g	17-Jun-05	0.14	0.173
F5F210233016	Soil	BRC-BKG-12B-9-11	Potassium 40	28.8			pCi/g	17-Jun-05	4.2	1.3
F5F210233016	Soil	BRC-BKG-12B-9-11	Protactinium 234	-0.06 U			pCi/g	17-Jun-05	0.15	0.26
F5F210233016	Soil	BRC-BKG-12B-9-11	Radium 223 [n]	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Radium 224 [o]	1.16			pCi/g	17-Jun-05	0.22	0.17
HD3DF1C4	Soil	BRC-BKG-12B-9-11	Radium 226	0.926 J	J	k, n	pCi/g	17-Jun-05	0.14	0.173
HD3DF1C5	Soil	BRC-BKG-12B-9-11	Radium 228	1.52 J	R	k, e	pCi/g	17-Jun-05	0.24	0.67
F5F210233016	Soil	BRC-BKG-12B-9-11	Thallium 207 [p]	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Thallium 208	0.48			pCi/g	17-Jun-05	0.14	0.1
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 227	0.01 U			pCi/g	17-Jun-05	0.4	0.71
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 228	1.17			pCi/g	17-Jun-05	0.25	0.09
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 230	0.82 J	J	k	pCi/g	17-Jun-05	0.2	0.05
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 231	0.053 U			pCi/g	17-Jun-05	0.067	0.08
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 232	1.29			pCi/g	17-Jun-05	0.26	0.06
F5F210233016	Soil	BRC-BKG-12B-9-11	Thorium 234	1.44			pCi/g	17-Jun-05	0.69	1.2
F5F210233016	Soil	BRC-BKG-12B-9-11	Uranium 233/234	0.89 J	U	b	pCi/g	17-Jun-05	0.25	0.07
F5F210233016	Soil	BRC-BKG-12B-9-11	Uranium 235	0.053 U			pCi/g	17-Jun-05	0.067	0.08
F5F210233016	Soil	BRC-BKG-12B-9-11	Uranium 238	0.81 J	J	k	pCi/g	17-Jun-05	0.24	0.08
F5F210233016	Soil	BRC-BKG-12B-9-11	Moisture (%)	3.8			percent	17-Jun-05		
F5F210233016	Soil	BRC-BKG-12B-9-11	Aluminum	6370 NE	J	j	mg/kg	17-Jun-05		2
F5F210233016	Soil	BRC-BKG-12B-9-11	Antimony	N U	UJ-	e	mg/kg	17-Jun-05		0.3298
F5F210233016	Soil	BRC-BKG-12B-9-11	Arsenic	5.3			mg/kg	17-Jun-05		0.1278
F5F210233016	Soil	BRC-BKG-12B-9-11	Barium	573 NE	J+	j, e	mg/kg	17-Jun-05		0.152
F5F210233016	Soil	BRC-BKG-12B-9-11	Beryllium	0.54			mg/kg	17-Jun-05		0.038
F5F210233016	Soil	BRC-BKG-12B-9-11	Boron	4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233016	Soil	BRC-BKG-12B-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233016	Soil	BRC-BKG-12B-9-11	Calcium	36400 N			mg/kg	17-Jun-05		1.028
F5F210233016	Soil	BRC-BKG-12B-9-11	Chromium	7.9			mg/kg	17-Jun-05		0.1841
F5F210233016	Soil	BRC-BKG-12B-9-11	Cobalt	5.2 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233016	Soil	BRC-BKG-12B-9-11	Copper	14.3 N			mg/kg	17-Jun-05		0.2205
F5F210233016	Soil	BRC-BKG-12B-9-11	Iron	9180 N			mg/kg	17-Jun-05		1.173
F5F210233016	Soil	BRC-BKG-12B-9-11	Lead	9.4 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233016	Soil	BRC-BKG-12B-9-11	Lithium	11.7			mg/kg	17-Jun-05		0.2425
F5F210233016	Soil	BRC-BKG-12B-9-11	Magnesium	5340 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233016	Soil	BRC-BKG-12B-9-11	Manganese	345 N			mg/kg	17-Jun-05		0.0131
F5F210233016	Soil	BRC-BKG-12B-9-11	Mercury	0.015 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233016	Soil	BRC-BKG-12B-9-11	Molybdenum	0.89 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233016	Soil	BRC-BKG-12B-9-11	Nickel	8.9 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233016	Soil	BRC-BKG-12B-9-11	Niobium	1.5 BN	UJ-	b, e	mg/kg	17-Jun-05		1.015
F5F210233016	Soil	BRC-BKG-12B-9-11	Palladium	0.48			mg/kg	17-Jun-05		0.0765
F5F210233016	Soil	BRC-BKG-12B-9-11	Phosphorus	820			mg/kg	17-Jun-05		1.913
F5F210233016	Soil	BRC-BKG-12B-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233016	Soil	BRC-BKG-12B-9-11	Potassium	1240 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233016	Soil	BRC-BKG-12B-9-11	Selenium	U			mg/kg	17-Jun-05		0.1579
F5F210233016	Soil	BRC-BKG-12B-9-11	Silicon	883 N			mg/kg	17-Jun-05		0.5289
F5F210233016	Soil	BRC-BKG-12B-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233016	Soil	BRC-BKG-12B-9-11	Sodium	711			mg/kg	17-Jun-05		7.567
F5F210233016	Soil	BRC-BKG-12B-9-11	Strontium	219			mg/kg	17-Jun-05		0.0735
F5F210233016	Soil	BRC-BKG-12B-9-11	Thallium	0.95 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233016	Soil	BRC-BKG-12B-9-11	Tin	0.21 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233016	Soil	BRC-BKG-12B-9-11	Titanium	200 N			mg/kg	17-Jun-05		0.1175
F5F210233016	Soil	BRC-BKG-12B-9-11	Tungsten	1.5 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233016	Soil	BRC-BKG-12B-9-11	Uranium	0.84 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233016	Soil	BRC-BKG-12B-9-11	Vanadium	19.2			mg/kg	17-Jun-05		0.5535
F5F210233016	Soil	BRC-BKG-12B-9-11	Zinc	21.4			mg/kg	17-Jun-05		0.2207
F5F210233016	Soil	BRC-BKG-12B-9-11	Zirconium	85.6			mg/kg	17-Jun-05		0.0874
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Chloride	0.96 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Nitrate	U	UJ	h	mg/kg	17-Jun-05		0.1

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Sulfate	3.1 B	U	b	mg/kg	17-Jun-05		0.612
F5F210233001	Soil	BRC-BKG-12C-0-0.5	CEC	8.2			meq/100g	17-Jun-05		
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233001	Soil	BRC-BKG-12C-0-0.5	pH (solid)	8.8	J	h	none	17-Jun-05		
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Actinium 227 [d]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Actinium 228	1.17			pCi/g	17-Jun-05	0.57	0.4
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	17-Jun-05	1.2	2.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Bismuth 211 [f]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Bismuth 212	0.92 U			pCi/g	17-Jun-05	0.61	1.2
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Bismuth 214	0.76			pCi/g	17-Jun-05	0.21	0.18
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Cobalt 57	-0.004 U			pCi/g	17-Jun-05	0.032	0.056
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Cobalt 60	-0.007 U			pCi/g	17-Jun-05	0.049	0.094
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lead 210	0.4 U			pCi/g	17-Jun-05	1.2	2.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lead 211 [g]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lead 212	1.36			pCi/g	17-Jun-05	0.24	0.16
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lead 214	0.83			pCi/g	17-Jun-05	0.21	0.18
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Polonium 210 [h]	0.4 U			pCi/g	17-Jun-05	1.2	2.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Polonium 212 [i]	0.59 U			pCi/g	17-Jun-05	0.39	0.77
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Polonium 214 [j]	0.76			pCi/g	17-Jun-05	0.21	0.18
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Polonium 215 [k]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Polonium 216 [l]	1.36			pCi/g	17-Jun-05	0.24	0.16
HD3AV1C7	Soil	BRC-BKG-12C-0-0.5	Polonium 218 [m]	0.63 J	U	k, b	pCi/g	17-Jun-05	0.1	0.119
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Potassium 40	30			pCi/g	17-Jun-05	4.3	1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Protactinium 234	-0.02 U			pCi/g	17-Jun-05	0.16	0.27
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Radium 223 [n]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Radium 224 [o]	1.36			pCi/g	17-Jun-05	0.24	0.16
HD3AV1C7	Soil	BRC-BKG-12C-0-0.5	Radium 226	0.63 J	U	k, b	pCi/g	17-Jun-05	0.1	0.119
HD3AV1C8	Soil	BRC-BKG-12C-0-0.5	Radium 228	3.76	R	e	pCi/g	17-Jun-05	0.36	0.8
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thallium 207 [p]	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thallium 208	0.53			pCi/g	17-Jun-05	0.12	0.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 227	0.06 U			pCi/g	17-Jun-05	0.42	0.74
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 228	1.34			pCi/g	17-Jun-05	0.29	0.16

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 230	0.72 J	J	k	pCi/g	17-Jun-05	0.2	0.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 231	0.054 J	U	b	pCi/g	17-Jun-05	0.073	0.049
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 232	1.47			pCi/g	17-Jun-05	0.29	0.08
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thorium 234	-0.11 U			pCi/g	17-Jun-05	0.68	1.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Uranium 233/234	0.8 J	U	b	pCi/g	17-Jun-05	0.24	0.1
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Uranium 235	0.054 J	J	k	pCi/g	17-Jun-05	0.073	0.049
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Uranium 238	0.59 J	J	k	pCi/g	17-Jun-05	0.2	0.08
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Moisture (%)	0.45			percent	17-Jun-05		
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Aluminum	5530 NE	J	j	mg/kg	17-Jun-05		2
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Antimony	0.44 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Arsenic	4.4			mg/kg	17-Jun-05		0.1278
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Barium	424 NE	J	j	mg/kg	17-Jun-05		0.152
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Beryllium	0.48 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Boron	4 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Calcium	10900 N			mg/kg	17-Jun-05		1.028
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Chromium	9.8			mg/kg	17-Jun-05		0.1841
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Cobalt	5.4 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Copper	23.2 N			mg/kg	17-Jun-05		0.2205
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Iron	11000 N			mg/kg	17-Jun-05		1.173
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lead	8.9 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Lithium	9.1			mg/kg	17-Jun-05		0.2425
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Magnesium	5450 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Manganese	422 N			mg/kg	17-Jun-05		0.0131
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Mercury	0.0097 B	J	g	mg/kg	17-Jun-05		0.0072
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Molybdenum	0.73 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Nickel	11.4 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Niobium	2.4 BN	U	b	mg/kg	17-Jun-05		1.015
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Palladium	0.2			mg/kg	17-Jun-05		0.0765
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Phosphorus	636			mg/kg	17-Jun-05		1.913
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Potassium	1520 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Selenium	0.26 B	J	g	mg/kg	17-Jun-05		0.1579

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Silicon	789 N			mg/kg	17-Jun-05		0.5289
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Sodium	111			mg/kg	17-Jun-05		7.567
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Strontium	86.8			mg/kg	17-Jun-05		0.0735
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Thallium	0.87 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Tin	0.28 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Titanium	244 N			mg/kg	17-Jun-05		0.1175
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Tungsten	1.1 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Uranium	0.43 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Vanadium	23.2			mg/kg	17-Jun-05		0.5535
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Zinc	24.8			mg/kg	17-Jun-05		0.2207
F5F210233001	Soil	BRC-BKG-12C-0-0.5	Zirconium	60.1			mg/kg	17-Jun-05		0.0874
F5F210233002	Soil	BRC-BKG-12C-4-6	Chloride	0.86 B	U	b	mg/kg	17-Jun-05		0.25
F5F210233002	Soil	BRC-BKG-12C-4-6	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233002	Soil	BRC-BKG-12C-4-6	Nitrate	0.13 B	J	h, g	mg/kg	17-Jun-05		0.1
F5F210233002	Soil	BRC-BKG-12C-4-6	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233002	Soil	BRC-BKG-12C-4-6	Sulfate	8.5			mg/kg	17-Jun-05		0.612
F5F210233002	Soil	BRC-BKG-12C-4-6	CEC	8.2			meq/100g	17-Jun-05		
F5F210233002	Soil	BRC-BKG-12C-4-6	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233002	Soil	BRC-BKG-12C-4-6	pH (solid)	9	J	h	none	17-Jun-05		
F5F210233002	Soil	BRC-BKG-12C-4-6	Actinium 227 [d]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Actinium 228	1.78			pCi/g	17-Jun-05	0.64	0.35
F5F210233002	Soil	BRC-BKG-12C-4-6	Bismuth 210 [e]	-0.14 U			pCi/g	17-Jun-05	0.98	1.8
F5F210233002	Soil	BRC-BKG-12C-4-6	Bismuth 211 [f]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Bismuth 212	0.68 U			pCi/g	17-Jun-05	0.47	0.94
F5F210233002	Soil	BRC-BKG-12C-4-6	Bismuth 214	0.71			pCi/g	17-Jun-05	0.19	0.33
F5F210233002	Soil	BRC-BKG-12C-4-6	Cobalt 57	0.015 U			pCi/g	17-Jun-05	0.029	0.05
F5F210233002	Soil	BRC-BKG-12C-4-6	Cobalt 60	0.02 U			pCi/g	17-Jun-05	0.062	0.12
F5F210233002	Soil	BRC-BKG-12C-4-6	Lead 210	-0.14 U			pCi/g	17-Jun-05	0.98	1.8
F5F210233002	Soil	BRC-BKG-12C-4-6	Lead 211 [g]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Lead 212	1.44			pCi/g	17-Jun-05	0.22	0.11
F5F210233002	Soil	BRC-BKG-12C-4-6	Lead 214	0.76			pCi/g	17-Jun-05	0.23	0.14
F5F210233002	Soil	BRC-BKG-12C-4-6	Polonium 210 [h]	-0.14 U			pCi/g	17-Jun-05	0.98	1.8

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BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233002	Soil	BRC-BKG-12C-4-6	Polonium 212 [i]	0.44 U			pCi/g	17-Jun-05	0.3	0.6
F5F210233002	Soil	BRC-BKG-12C-4-6	Polonium 214 [j]	0.71			pCi/g	17-Jun-05	0.19	0.16
F5F210233002	Soil	BRC-BKG-12C-4-6	Polonium 215 [k]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Polonium 216 [l]	1.44			pCi/g	17-Jun-05	0.22	0.11
HD3A51C4	Soil	BRC-BKG-12C-4-6	Polonium 218 [m]	0.637 J	J	k	pCi/g	17-Jun-05	0.1	0.108
F5F210233002	Soil	BRC-BKG-12C-4-6	Potassium 40	35			pCi/g	17-Jun-05	4.7	0.7
F5F210233002	Soil	BRC-BKG-12C-4-6	Protactinium 234	-0.08 U			pCi/g	17-Jun-05	0.14	0.23
F5F210233002	Soil	BRC-BKG-12C-4-6	Radium 223 [n]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Radium 224 [o]	1.44			pCi/g	17-Jun-05	0.22	0.11
HD3A51C4	Soil	BRC-BKG-12C-4-6	Radium 226	0.637 J	J	k	pCi/g	17-Jun-05	0.1	0.108
HD3A51C5	Soil	BRC-BKG-12C-4-6	Radium 228	2.37	R	e	pCi/g	17-Jun-05	0.28	0.731
F5F210233002	Soil	BRC-BKG-12C-4-6	Thallium 207 [p]	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Thallium 208	0.54			pCi/g	17-Jun-05	0.12	0.09
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 227	-0.57 U			pCi/g	17-Jun-05	0.4	0.62
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 228	1.7			pCi/g	17-Jun-05	0.37	0.19
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 230	0.87 J	J	k	pCi/g	17-Jun-05	0.24	0.07
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 231	0.03 U			pCi/g	17-Jun-05	0.052	0.041
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 232	1.44			pCi/g	17-Jun-05	0.32	0.09
F5F210233002	Soil	BRC-BKG-12C-4-6	Thorium 234	0.52 U			pCi/g	17-Jun-05	0.57	1
F5F210233002	Soil	BRC-BKG-12C-4-6	Uranium 233/234	0.77 J	U	b	pCi/g	17-Jun-05	0.21	0.06
F5F210233002	Soil	BRC-BKG-12C-4-6	Uranium 235	0.03 U			pCi/g	17-Jun-05	0.052	0.041
F5F210233002	Soil	BRC-BKG-12C-4-6	Uranium 238	0.66 J	J	k	pCi/g	17-Jun-05	0.19	0.06
F5F210233002	Soil	BRC-BKG-12C-4-6	Moisture (%)	4			percent	17-Jun-05		
F5F210233002	Soil	BRC-BKG-12C-4-6	Aluminum	5480 NE	J	j	mg/kg	17-Jun-05		2
F5F210233002	Soil	BRC-BKG-12C-4-6	Antimony	0.13 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233002	Soil	BRC-BKG-12C-4-6	Arsenic	4.7			mg/kg	17-Jun-05		0.1278
F5F210233002	Soil	BRC-BKG-12C-4-6	Barium	436 NE	J	j	mg/kg	17-Jun-05		0.152
F5F210233002	Soil	BRC-BKG-12C-4-6	Beryllium	0.43 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233002	Soil	BRC-BKG-12C-4-6	Boron	U			mg/kg	17-Jun-05		3.2
F5F210233002	Soil	BRC-BKG-12C-4-6	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233002	Soil	BRC-BKG-12C-4-6	Calcium	8160 N			mg/kg	17-Jun-05		1.028
F5F210233002	Soil	BRC-BKG-12C-4-6	Chromium	7.1			mg/kg	17-Jun-05		0.1841
F5F210233002	Soil	BRC-BKG-12C-4-6	Cobalt	6.5 E	J	j	mg/kg	17-Jun-05		0.064

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233002	Soil	BRC-BKG-12C-4-6	Copper	18.6 N			mg/kg	17-Jun-05		0.2205
F5F210233002	Soil	BRC-BKG-12C-4-6	Iron	9370 N			mg/kg	17-Jun-05		1.173
F5F210233002	Soil	BRC-BKG-12C-4-6	Lead	8.9 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233002	Soil	BRC-BKG-12C-4-6	Lithium	9.3			mg/kg	17-Jun-05		0.2425
F5F210233002	Soil	BRC-BKG-12C-4-6	Magnesium	4930 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233002	Soil	BRC-BKG-12C-4-6	Manganese	507 N			mg/kg	17-Jun-05		0.0131
F5F210233002	Soil	BRC-BKG-12C-4-6	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233002	Soil	BRC-BKG-12C-4-6	Molybdenum	0.94 B	J	g	mg/kg	17-Jun-05		0.241
F5F210233002	Soil	BRC-BKG-12C-4-6	Nickel	11.2 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233002	Soil	BRC-BKG-12C-4-6	Niobium	1.6 BN	U	b	mg/kg	17-Jun-05		1.015
F5F210233002	Soil	BRC-BKG-12C-4-6	Palladium	0.23			mg/kg	17-Jun-05		0.0765
F5F210233002	Soil	BRC-BKG-12C-4-6	Phosphorus	842			mg/kg	17-Jun-05		1.913
F5F210233002	Soil	BRC-BKG-12C-4-6	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233002	Soil	BRC-BKG-12C-4-6	Potassium	1580 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233002	Soil	BRC-BKG-12C-4-6	Selenium	0.28 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233002	Soil	BRC-BKG-12C-4-6	Silicon	527 N			mg/kg	17-Jun-05		0.5289
F5F210233002	Soil	BRC-BKG-12C-4-6	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233002	Soil	BRC-BKG-12C-4-6	Sodium	280			mg/kg	17-Jun-05		7.567
F5F210233002	Soil	BRC-BKG-12C-4-6	Strontium	92			mg/kg	17-Jun-05		0.0735
F5F210233002	Soil	BRC-BKG-12C-4-6	Thallium	1.1			mg/kg	17-Jun-05		0.5428
F5F210233002	Soil	BRC-BKG-12C-4-6	Tin	0.21 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233002	Soil	BRC-BKG-12C-4-6	Titanium	265 N			mg/kg	17-Jun-05		0.1175
F5F210233002	Soil	BRC-BKG-12C-4-6	Tungsten	0.99 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233002	Soil	BRC-BKG-12C-4-6	Uranium	0.84 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233002	Soil	BRC-BKG-12C-4-6	Vanadium	24.4			mg/kg	17-Jun-05		0.5535
F5F210233002	Soil	BRC-BKG-12C-4-6	Zinc	21.4			mg/kg	17-Jun-05		0.2207
F5F210233002	Soil	BRC-BKG-12C-4-6	Zirconium	92.7			mg/kg	17-Jun-05		0.0874
F5F210233003	Soil	BRC-BKG-12C-9-11	Chloride	35.9			mg/kg	17-Jun-05		0.25
F5F210233003	Soil	BRC-BKG-12C-9-11	Fluoride	U			mg/kg	17-Jun-05		0.051
F5F210233003	Soil	BRC-BKG-12C-9-11	Nitrate	0.11 B	J	h, g	mg/kg	17-Jun-05		0.1
F5F210233003	Soil	BRC-BKG-12C-9-11	Nitrite	U	UJ	h	mg/kg	17-Jun-05		0.061
F5F210233003	Soil	BRC-BKG-12C-9-11	Sulfate	17.9			mg/kg	17-Jun-05		0.612
F5F210233003	Soil	BRC-BKG-12C-9-11	CEC	9.9			meq/100g	17-Jun-05		

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233003	Soil	BRC-BKG-12C-9-11	Cr VI	U			mg/kg	17-Jun-05		0.251
F5F210233003	Soil	BRC-BKG-12C-9-11	pH (solid)	8.2	J	h	none	17-Jun-05		
F5F210233003	Soil	BRC-BKG-12C-9-11	Actinium 227 [d]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Actinium 228	1.22			pCi/g	17-Jun-05	0.52	0.4
F5F210233003	Soil	BRC-BKG-12C-9-11	Bismuth 210 [e]	0.3 U			pCi/g	17-Jun-05	1.1	2
F5F210233003	Soil	BRC-BKG-12C-9-11	Bismuth 211 [f]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Bismuth 212	0.69 U			pCi/g	17-Jun-05	0.52	1
F5F210233003	Soil	BRC-BKG-12C-9-11	Bismuth 214	0.73			pCi/g	17-Jun-05	0.18	0.16
F5F210233003	Soil	BRC-BKG-12C-9-11	Cobalt 57	-0.0009 U			pCi/g	17-Jun-05	0.03	0.052
F5F210233003	Soil	BRC-BKG-12C-9-11	Cobalt 60	0.032 U			pCi/g	17-Jun-05	0.059	0.12
F5F210233003	Soil	BRC-BKG-12C-9-11	Lead 210	0.3 U			pCi/g	17-Jun-05	1.1	2
F5F210233003	Soil	BRC-BKG-12C-9-11	Lead 211 [g]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Lead 212	1.08			pCi/g	17-Jun-05	0.22	0.2
F5F210233003	Soil	BRC-BKG-12C-9-11	Lead 214	0.73			pCi/g	17-Jun-05	0.19	0.16
F5F210233003	Soil	BRC-BKG-12C-9-11	Polonium 210 [h]	0.3 U			pCi/g	17-Jun-05	1.1	2
F5F210233003	Soil	BRC-BKG-12C-9-11	Polonium 212 [i]	0.45 U			pCi/g	17-Jun-05	0.33	0.67
F5F210233003	Soil	BRC-BKG-12C-9-11	Polonium 214 [j]	0.73			pCi/g	17-Jun-05	0.18	0.16
F5F210233003	Soil	BRC-BKG-12C-9-11	Polonium 215 [k]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Polonium 216 [l]	1.08			pCi/g	17-Jun-05	0.22	0.2
HD3CA1C4	Soil	BRC-BKG-12C-9-11	Polonium 218 [m]	0.583 J	J	k	pCi/g	17-Jun-05	0.098	0.161
F5F210233003	Soil	BRC-BKG-12C-9-11	Potassium 40	29.3			pCi/g	17-Jun-05	4.3	1.2
F5F210233003	Soil	BRC-BKG-12C-9-11	Protactinium 234	-0.01 U			pCi/g	17-Jun-05	0.17	0.26
F5F210233003	Soil	BRC-BKG-12C-9-11	Radium 223 [n]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Radium 224 [o]	1.08			pCi/g	17-Jun-05	0.22	0.2
HD3CA1C4	Soil	BRC-BKG-12C-9-11	Radium 226	0.583 J	J	k	pCi/g	17-Jun-05	0.098	0.161
HD3CA1C5	Soil	BRC-BKG-12C-9-11	Radium 228	3.13	R	e	pCi/g	17-Jun-05	0.34	0.825
F5F210233003	Soil	BRC-BKG-12C-9-11	Thallium 207 [p]	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Thallium 208	0.46			pCi/g	17-Jun-05	0.13	0.09
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 227	0.005 U			pCi/g	17-Jun-05	0.46	0.8
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 228	1.36			pCi/g	17-Jun-05	0.34	0.18
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 230	0.66 J	J	k	pCi/g	17-Jun-05	0.22	0.1
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 231	0.046 U			pCi/g	17-Jun-05	0.08	0.12
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 232	1.05			pCi/g	17-Jun-05	0.28	0.08

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233003	Soil	BRC-BKG-12C-9-11	Thorium 234	1.29			pCi/g	17-Jun-05	0.8	1.1
F5F210233003	Soil	BRC-BKG-12C-9-11	Uranium 233/234	0.68 J	U	b	pCi/g	17-Jun-05	0.22	0.13
F5F210233003	Soil	BRC-BKG-12C-9-11	Uranium 235	0.046 U			pCi/g	17-Jun-05	0.08	0.12
F5F210233003	Soil	BRC-BKG-12C-9-11	Uranium 238	0.76 J	J	k	pCi/g	17-Jun-05	0.22	0.09
F5F210233003	Soil	BRC-BKG-12C-9-11	Moisture (%)	3.2			percent	17-Jun-05		
F5F210233003	Soil	BRC-BKG-12C-9-11	Aluminum	6180 NE	J	j	mg/kg	17-Jun-05		2
F5F210233003	Soil	BRC-BKG-12C-9-11	Antimony	0.13 BN	J-	e, g	mg/kg	17-Jun-05		0.3298
F5F210233003	Soil	BRC-BKG-12C-9-11	Arsenic	5.5			mg/kg	17-Jun-05		0.1278
F5F210233003	Soil	BRC-BKG-12C-9-11	Barium	697 NE	J	j	mg/kg	17-Jun-05		0.152
F5F210233003	Soil	BRC-BKG-12C-9-11	Beryllium	0.54			mg/kg	17-Jun-05		0.038
F5F210233003	Soil	BRC-BKG-12C-9-11	Boron	4.2 B	U	b	mg/kg	17-Jun-05		3.2
F5F210233003	Soil	BRC-BKG-12C-9-11	Cadmium	U			mg/kg	17-Jun-05		0.1291
F5F210233003	Soil	BRC-BKG-12C-9-11	Calcium	26600 N			mg/kg	17-Jun-05		1.028
F5F210233003	Soil	BRC-BKG-12C-9-11	Chromium	8.8			mg/kg	17-Jun-05		0.1841
F5F210233003	Soil	BRC-BKG-12C-9-11	Cobalt	12.3 E	J	j	mg/kg	17-Jun-05		0.064
F5F210233003	Soil	BRC-BKG-12C-9-11	Copper	23.4 N			mg/kg	17-Jun-05		0.2205
F5F210233003	Soil	BRC-BKG-12C-9-11	Iron	10800 N			mg/kg	17-Jun-05		1.173
F5F210233003	Soil	BRC-BKG-12C-9-11	Lead	9.9 N*	J	d	mg/kg	17-Jun-05		0.0506
F5F210233003	Soil	BRC-BKG-12C-9-11	Lithium	12.6			mg/kg	17-Jun-05		0.2425
F5F210233003	Soil	BRC-BKG-12C-9-11	Magnesium	5920 E	J	j	mg/kg	17-Jun-05		1.176
F5F210233003	Soil	BRC-BKG-12C-9-11	Manganese	469 N			mg/kg	17-Jun-05		0.0131
F5F210233003	Soil	BRC-BKG-12C-9-11	Mercury	U			mg/kg	17-Jun-05		0.0072
F5F210233003	Soil	BRC-BKG-12C-9-11	Molybdenum	1.3			mg/kg	17-Jun-05		0.241
F5F210233003	Soil	BRC-BKG-12C-9-11	Nickel	12.6 E	J	j	mg/kg	17-Jun-05		0.1295
F5F210233003	Soil	BRC-BKG-12C-9-11	Niobium	N U	UJ-	e	mg/kg	17-Jun-05		1.015
F5F210233003	Soil	BRC-BKG-12C-9-11	Palladium	0.34			mg/kg	17-Jun-05		0.0765
F5F210233003	Soil	BRC-BKG-12C-9-11	Phosphorus	727			mg/kg	17-Jun-05		1.913
F5F210233003	Soil	BRC-BKG-12C-9-11	Platinum	U			mg/kg	17-Jun-05		0.0435
F5F210233003	Soil	BRC-BKG-12C-9-11	Potassium	1380 E	J	j	mg/kg	17-Jun-05		2.079
F5F210233003	Soil	BRC-BKG-12C-9-11	Selenium	0.4 B	J	g	mg/kg	17-Jun-05		0.1579
F5F210233003	Soil	BRC-BKG-12C-9-11	Silicon	680 N			mg/kg	17-Jun-05		0.5289
F5F210233003	Soil	BRC-BKG-12C-9-11	Silver	N U			mg/kg	17-Jun-05		0.2609
F5F210233003	Soil	BRC-BKG-12C-9-11	Sodium	432			mg/kg	17-Jun-05		7.567

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233003	Soil	BRC-BKG-12C-9-11	Strontium	160			mg/kg	17-Jun-05		0.0735
F5F210233003	Soil	BRC-BKG-12C-9-11	Thallium	0.9 B	U	b	mg/kg	17-Jun-05		0.5428
F5F210233003	Soil	BRC-BKG-12C-9-11	Tin	0.25 B	J	g	mg/kg	17-Jun-05		0.187
F5F210233003	Soil	BRC-BKG-12C-9-11	Titanium	227 N			mg/kg	17-Jun-05		0.1175
F5F210233003	Soil	BRC-BKG-12C-9-11	Tungsten	0.81 B	U	b	mg/kg	17-Jun-05		0.0175
F5F210233003	Soil	BRC-BKG-12C-9-11	Uranium	0.71 B	J	g	mg/kg	17-Jun-05		0.038
F5F210233003	Soil	BRC-BKG-12C-9-11	Vanadium	23.2			mg/kg	17-Jun-05		0.5535
F5F210233003	Soil	BRC-BKG-12C-9-11	Zinc	25.2			mg/kg	17-Jun-05		0.2207
F5F210233003	Soil	BRC-BKG-12C-9-11	Zirconium	68.4			mg/kg	17-Jun-05		0.0874

Notes:

*	Indicates that laboratory QC limits for duplicate precision were not met.
B	Indicates that results are less than the practical quantitation limit.
CEC	Cation exchange capacity
Cr VI	Hexavalent chromium
E	Indicates that the laboratory QC limits for serioal dilution were not met.
J	Indicates that the laboratory qualified the result as estimated.
meq/100g	Milliequivalent per 100 gram
mg/kg	Milligram per kilogram
N	Indicates that laboratory QC limits for matrix spike accuracy were not met.
pCi/g	PicoCurie per gram
SQL	Sample quantitation limit; equivalent to the method detection limit corrected for sample preparation factors and moisture content.
U	The analyte was undetected in the sample.

a If the result cell has no numerical value and the qualifier "U", then the analyte was undetected at the sample quantitation limit listed under "SQL." The result includes the numerical value and the qualifier(s) as reported by the laboratory; validation qualifiers supersede laboratory qualifiers. Laboratory result qualifiers are defined in the notes above; while the validation qualifiers and codes are defined in Table C-3.

b Validation qualifiers and comments codes are defined in Table C-3.

c Rad error represents the 2-sigma error applicable to radionuclide results only.

d Actinium 227 assumes equilibrium w/ Th-227; quantified from Th-227.

e Bismuth 210 assumes equilibrium w/ Pb-210; quantified from Pb-210.

f Bismuth 211 assumes equilibrium w/ Th-227; quantified from Th-227.

g Lead 211 assumes equilibrium w/ Th-227; quantified from Th-227.

h Polonium 210 assumes equilibrium w/ Bi-210; quantified from Bi-210.

i Polonium 212 assumes equilibrium w/ Bi-212; quantified from Bi-212.

j Polonium 214 assumes equilibrium w/ Bi-214; quantified from Bi-214.

TABLE C-1
BMI SOIL BACKGROUND ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]	Unit	Sample Date	Rad Error [c]	SQL

k Polonium 215 assumes equilibrium w/ Th-227; quantified from Th-227.
l Polonium 216 assumes equilibrium w/ Ra-224; quantified from Ra-224.
m Polonium 218 assumes equilibrium w/ Ra-226; quantified from Ra-226.
n Radium 223 assumes equilibrium w/ Th-227; quantified from Th-227.
o Radium 224 assumes equilibrium w/ Pb-212; quantified from Pb-212.
p Thallium 207 assumes equilibrium w/ Th-227; quantified from Th-227.

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132023	Soil	BRC-BCG-03A-3-7	Chloride	181			mg/kg	16-Jun-05		0.25
F5F180132023	Soil	BRC-BCG-03A-3-7	Fluoride	U			mg/kg	16-Jun-05		0.051
F5F180132023	Soil	BRC-BCG-03A-3-7	Nitrate	26.3	J	h	mg/kg	16-Jun-05		0.1
F5F180132023	Soil	BRC-BCG-03A-3-7	Nitrite	U	UJ	h	mg/kg	16-Jun-05		0.061
F5F180132023	Soil	BRC-BCG-03A-3-7	Sulfate	227			mg/kg	16-Jun-05		0.612
F5F180132023	Soil	BRC-BCG-03A-3-7	CEC	9.6			meq/100g	16-Jun-05		
F5F180132023	Soil	BRC-BCG-03A-3-7	Cr VI	U			mg/kg	16-Jun-05		0.251
F5F180132023	Soil	BRC-BCG-03A-3-7	pH (solid)	8.5	J	h	none	16-Jun-05		
F5F180132023	Soil	BRC-BCG-03A-3-7	Actinium 227 [d]	0.09 U			pCi/g	16-Jun-05	0.41	0.74
F5F180132023	Soil	BRC-BCG-03A-3-7	Actinium 228	1.85			pCi/g	16-Jun-05	0.66	0.35
F5F180132023	Soil	BRC-BCG-03A-3-7	Bismuth 210 [e]	-0.021 U			pCi/g	16-Jun-05	0.996	1.8
F5F180132023	Soil	BRC-BCG-03A-3-7	Bismuth 211 [f]	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Bismuth 212	1.11			pCi/g	16-Jun-05	0.55	1.1
F5F180132023	Soil	BRC-BCG-03A-3-7	Bismuth 214	0.92			pCi/g	16-Jun-05	0.22	0.38
F5F180132023	Soil	BRC-BCG-03A-3-7	Cobalt 57	-0.007 U			pCi/g	16-Jun-05	0.029	0.048
F5F180132023	Soil	BRC-BCG-03A-3-7	Cobalt 60	0.001 U			pCi/g	16-Jun-05	0.053	0.1
F5F180132023	Soil	BRC-BCG-03A-3-7	Lead 210	-0.021 U			pCi/g	16-Jun-05	0.996	1.8
F5F180132023	Soil	BRC-BCG-03A-3-7	Lead 211 [g]	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Lead 212	1.64			pCi/g	16-Jun-05	0.27	0.16
F5F180132023	Soil	BRC-BCG-03A-3-7	Lead 214	0.85			pCi/g	16-Jun-05	0.2	0.2
F5F180132023	Soil	BRC-BCG-03A-3-7	Polonium 210 [h]	-0.021 U			pCi/g	16-Jun-05	0.996	1.8
F5F180132023	Soil	BRC-BCG-03A-3-7	Polonium 212 [i]	0.71			pCi/g	16-Jun-05	0.35	0.71
F5F180132023	Soil	BRC-BCG-03A-3-7	Polonium 214 [j]	0.92			pCi/g	16-Jun-05	0.22	0.17
F5F180132023	Soil	BRC-BCG-03A-3-7	Polonium 215 [k]	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Polonium 216 [l]	1.64			pCi/g	16-Jun-05	0.27	0.16
HDXH01C4	Soil	BRC-BCG-03A-3-7	Polonium 218 [m]	1.1	J	n	pCi/g	16-Jun-05	0.14	0.0877
F5F180132023	Soil	BRC-BCG-03A-3-7	Potassium 40	26.7			pCi/g	16-Jun-05	3.8	5.7
F5F180132023	Soil	BRC-BCG-03A-3-7	Protactinium 234	-0.02 U			pCi/g	16-Jun-05	0.15	0.23
F5F180132023	Soil	BRC-BCG-03A-3-7	Radium 223 [n]	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Radium 224 [o]	1.64			pCi/g	16-Jun-05	0.27	0.16
HDXH01C4	Soil	BRC-BCG-03A-3-7	Radium 226	1.1	J	n	pCi/g	16-Jun-05	0.14	0.0877
HDXH01C5	Soil	BRC-BCG-03A-3-7	Radium 228	1.96 J	J	k	pCi/g	16-Jun-05	0.23	0.49
F5F180132023	Soil	BRC-BCG-03A-3-7	Thallium 207 [p]	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Thallium 208	0.56			pCi/g	16-Jun-05	0.13	0.08
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 227	0.09 U			pCi/g	16-Jun-05	0.41	0.75
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 228	1.78			pCi/g	16-Jun-05	0.37	0.17

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 230	1.21			pCi/g	16-Jun-05	0.29	0.12
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 231	0.031 U			pCi/g	16-Jun-05	0.054	0.042
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 232	2.13			pCi/g	16-Jun-05	0.4	0.06
F5F180132023	Soil	BRC-BCG-03A-3-7	Thorium 234	0.22 U			pCi/g	16-Jun-05	0.75	1.1
F5F180132023	Soil	BRC-BCG-03A-3-7	Uranium 233/234	0.95 J	U	b	pCi/g	16-Jun-05	0.24	0.07
F5F180132023	Soil	BRC-BCG-03A-3-7	Uranium 235	0.031 U			pCi/g	16-Jun-05	0.054	0.042
F5F180132023	Soil	BRC-BCG-03A-3-7	Uranium 238	0.98 J	J	k	pCi/g	16-Jun-05	0.24	0.05
F5F180132023	Soil	BRC-BCG-03A-3-7	Moisture (%)	2.6			percent	16-Jun-05		
F5F180132023	Soil	BRC-BCG-03A-3-7	Aluminum	6580 N			mg/kg	16-Jun-05		2
F5F180132023	Soil	BRC-BCG-03A-3-7	Antimony	N U			mg/kg	16-Jun-05		0.3298
F5F180132023	Soil	BRC-BCG-03A-3-7	Arsenic	3.8			mg/kg	16-Jun-05		0.1278
F5F180132023	Soil	BRC-BCG-03A-3-7	Barium	218			mg/kg	16-Jun-05		0.152
F5F180132023	Soil	BRC-BCG-03A-3-7	Beryllium	0.42 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132023	Soil	BRC-BCG-03A-3-7	Boron	4.4 B	U	b	mg/kg	16-Jun-05		3.2
F5F180132023	Soil	BRC-BCG-03A-3-7	Cadmium	U			mg/kg	16-Jun-05		0.1291
F5F180132023	Soil	BRC-BCG-03A-3-7	Calcium	24600 N			mg/kg	16-Jun-05		1.028
F5F180132023	Soil	BRC-BCG-03A-3-7	Chromium	5.5			mg/kg	16-Jun-05		0.1841
F5F180132023	Soil	BRC-BCG-03A-3-7	Cobalt	11.6 E	J	j	mg/kg	16-Jun-05		0.064
F5F180132023	Soil	BRC-BCG-03A-3-7	Copper	14.4			mg/kg	16-Jun-05		0.2205
F5F180132023	Soil	BRC-BCG-03A-3-7	Iron	8480 N			mg/kg	16-Jun-05		1.173
F5F180132023	Soil	BRC-BCG-03A-3-7	Lead	7.4			mg/kg	16-Jun-05		0.0506
F5F180132023	Soil	BRC-BCG-03A-3-7	Lithium	11.7			mg/kg	16-Jun-05		0.2425
F5F180132023	Soil	BRC-BCG-03A-3-7	Magnesium	5720			mg/kg	16-Jun-05		1.176
F5F180132023	Soil	BRC-BCG-03A-3-7	Manganese	468 NE	J	j	mg/kg	16-Jun-05		0.0131
F5F180132023	Soil	BRC-BCG-03A-3-7	Mercury	U			mg/kg	16-Jun-05		0.0072
F5F180132023	Soil	BRC-BCG-03A-3-7	Molybdenum	0.65 B	J	g	mg/kg	16-Jun-05		0.241
F5F180132023	Soil	BRC-BCG-03A-3-7	Nickel	10.4 E	J	j	mg/kg	16-Jun-05		0.1295
F5F180132023	Soil	BRC-BCG-03A-3-7	Niobium	1.6 BN	UJ-	b, e	mg/kg	16-Jun-05		1.015
F5F180132023	Soil	BRC-BCG-03A-3-7	Palladium	0.44			mg/kg	16-Jun-05		0.0765
F5F180132023	Soil	BRC-BCG-03A-3-7	Phosphorus	1150 N			mg/kg	16-Jun-05		1.913
F5F180132023	Soil	BRC-BCG-03A-3-7	Platinum	U			mg/kg	16-Jun-05		0.0435
F5F180132023	Soil	BRC-BCG-03A-3-7	Potassium	2260			mg/kg	16-Jun-05		2.079
F5F180132023	Soil	BRC-BCG-03A-3-7	Selenium	0.38 B	J	g	mg/kg	16-Jun-05		0.1579
F5F180132023	Soil	BRC-BCG-03A-3-7	Silicon	1150 N			mg/kg	16-Jun-05		0.5289
F5F180132023	Soil	BRC-BCG-03A-3-7	Silver	N U			mg/kg	16-Jun-05		0.2609
F5F180132023	Soil	BRC-BCG-03A-3-7	Sodium	588			mg/kg	16-Jun-05		7.567

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BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132023	Soil	BRC-BCG-03A-3-7	Strontium	234 N	J-	e	mg/kg	16-Jun-05		0.0735
F5F180132023	Soil	BRC-BCG-03A-3-7	Thallium	0.39 B	U	b	mg/kg	16-Jun-05		0.5428
F5F180132023	Soil	BRC-BCG-03A-3-7	Tin	0.42 B	J	g	mg/kg	16-Jun-05		0.187
F5F180132023	Soil	BRC-BCG-03A-3-7	Titanium	528 N			mg/kg	16-Jun-05		0.1175
F5F180132023	Soil	BRC-BCG-03A-3-7	Tungsten	1.6 BE	UJ	b, j	mg/kg	16-Jun-05		0.0175
F5F180132023	Soil	BRC-BCG-03A-3-7	Uranium	0.85 B	J	g	mg/kg	16-Jun-05		0.038
F5F180132023	Soil	BRC-BCG-03A-3-7	Vanadium	29 E	J	j	mg/kg	16-Jun-05		0.5535
F5F180132023	Soil	BRC-BCG-03A-3-7	Zinc	25.5			mg/kg	16-Jun-05		0.2207
F5F180132023	Soil	BRC-BCG-03A-3-7	Zirconium	116			mg/kg	16-Jun-05		0.0874
F5F170373010	Soil	BRC-BCG-06C-8-12	Chloride	20.7			mg/kg	15-Jun-05		0.25
F5F170373010	Soil	BRC-BCG-06C-8-12	Fluoride	0.35 B			mg/kg	15-Jun-05		0.051
F5F170373010	Soil	BRC-BCG-06C-8-12	Nitrate	0.2 B			mg/kg	15-Jun-05		0.1
F5F170373010	Soil	BRC-BCG-06C-8-12	Nitrite	U			mg/kg	15-Jun-05		0.061
F5F170373010	Soil	BRC-BCG-06C-8-12	Sulfate	15.7			mg/kg	15-Jun-05		0.612
F5F170373010	Soil	BRC-BCG-06C-8-12	CEC	12.9			meq/100g	15-Jun-05		
F5F170373010	Soil	BRC-BCG-06C-8-12	Cr VI	U			mg/kg	15-Jun-05		0.251
F5F170373010	Soil	BRC-BCG-06C-8-12	pH (solid)	9.2			none	15-Jun-05		
F5F170373010	Soil	BRC-BCG-06C-8-12	Actinium 227 [d]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Actinium 228	1.36			pCi/g	15-Jun-05	0.52	0.36
F5F170373010	Soil	BRC-BCG-06C-8-12	Bismuth 210 [e]	1.09 U			pCi/g	15-Jun-05	0.96	1.9
F5F170373010	Soil	BRC-BCG-06C-8-12	Bismuth 211 [f]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Bismuth 212	1.03			pCi/g	15-Jun-05	0.5	0.74
F5F170373010	Soil	BRC-BCG-06C-8-12	Bismuth 214	0.92			pCi/g	15-Jun-05	0.2	0.13
F5F170373010	Soil	BRC-BCG-06C-8-12	Cobalt 57	0.012 U			pCi/g	15-Jun-05	0.027	0.047
F5F170373010	Soil	BRC-BCG-06C-8-12	Cobalt 60	-0.006 U			pCi/g	15-Jun-05	0.053	0.1
F5F170373010	Soil	BRC-BCG-06C-8-12	Lead 210	1.09 U			pCi/g	15-Jun-05	0.96	1.9
F5F170373010	Soil	BRC-BCG-06C-8-12	Lead 211 [g]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Lead 212	1.26			pCi/g	15-Jun-05	0.21	0.15
F5F170373010	Soil	BRC-BCG-06C-8-12	Lead 214	1			pCi/g	15-Jun-05	0.2	0.14
F5F170373010	Soil	BRC-BCG-06C-8-12	Polonium 210 [h]	1.09 U			pCi/g	15-Jun-05	0.96	1.9
F5F170373010	Soil	BRC-BCG-06C-8-12	Polonium 212 [i]	0.66			pCi/g	15-Jun-05	0.32	0.47
F5F170373010	Soil	BRC-BCG-06C-8-12	Polonium 214 [j]	0.92			pCi/g	15-Jun-05	0.2	0.13
F5F170373010	Soil	BRC-BCG-06C-8-12	Polonium 215 [k]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Polonium 216 [l]	1.26			pCi/g	15-Jun-05	0.21	0.15
HDWMJ1C4	Soil	BRC-BCG-06C-8-12	Polonium 218 [m]	1.08			pCi/g	15-Jun-05	0.13	0.0938
F5F170373010	Soil	BRC-BCG-06C-8-12	Potassium 40	20.6			pCi/g	15-Jun-05	3	0.5

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BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373010	Soil	BRC-BCG-06C-8-12	Protactinium 234	0.17 U			pCi/g	15-Jun-05	0.14	0.24
F5F170373010	Soil	BRC-BCG-06C-8-12	Radium 223 [n]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Radium 224 [o]	1.26			pCi/g	15-Jun-05	0.21	0.15
HDWMJ1C4	Soil	BRC-BCG-06C-8-12	Radium 226	1.08			pCi/g	15-Jun-05	0.13	0.0938
HDWMJ1C5	Soil	BRC-BCG-06C-8-12	Radium 228	1.68 J	J	k	pCi/g	15-Jun-05	0.22	0.515
F5F170373010	Soil	BRC-BCG-06C-8-12	Thallium 207 [p]	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Thallium 208	0.44			pCi/g	15-Jun-05	0.11	0.08
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 227	0.26 U			pCi/g	15-Jun-05	0.39	0.73
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 228	1.24			pCi/g	15-Jun-05	0.26	0.09
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 230	1.51			pCi/g	15-Jun-05	0.28	0.05
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 231	0.022 U			pCi/g	15-Jun-05	0.036	0.051
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 232	1.19			pCi/g	15-Jun-05	0.25	0.06
F5F170373010	Soil	BRC-BCG-06C-8-12	Thorium 234	1.39			pCi/g	15-Jun-05	0.45	0.74
F5F170373010	Soil	BRC-BCG-06C-8-12	Uranium 233/234	1.2			pCi/g	15-Jun-05	0.25	0.05
F5F170373010	Soil	BRC-BCG-06C-8-12	Uranium 235	0.022 U			pCi/g	15-Jun-05	0.036	0.051
F5F170373010	Soil	BRC-BCG-06C-8-12	Uranium 238	1.28			pCi/g	15-Jun-05	0.27	0.03
F5F170373010	Soil	BRC-BCG-06C-8-12	Moisture (%)	3.8			percent	15-Jun-05		
F5F170373010	Soil	BRC-BCG-06C-8-12	Aluminum	12600 NE	J	j	mg/kg	15-Jun-05		2
F5F170373010	Soil	BRC-BCG-06C-8-12	Antimony	0.13 BN	J-	e, g	mg/kg	15-Jun-05		0.3298
F5F170373010	Soil	BRC-BCG-06C-8-12	Arsenic	4.5			mg/kg	15-Jun-05		0.1278
F5F170373010	Soil	BRC-BCG-06C-8-12	Barium	191 E	J	j	mg/kg	15-Jun-05		0.152
F5F170373010	Soil	BRC-BCG-06C-8-12	Beryllium	0.63			mg/kg	15-Jun-05		0.038
F5F170373010	Soil	BRC-BCG-06C-8-12	Boron	3.8 B	U	b	mg/kg	15-Jun-05		3.2
F5F170373010	Soil	BRC-BCG-06C-8-12	Cadmium	N U			mg/kg	15-Jun-05		0.1291
F5F170373010	Soil	BRC-BCG-06C-8-12	Calcium	43200 NE	J	j	mg/kg	15-Jun-05		1.028
F5F170373010	Soil	BRC-BCG-06C-8-12	Chromium	9.5			mg/kg	15-Jun-05		0.1841
F5F170373010	Soil	BRC-BCG-06C-8-12	Cobalt	12 E	J	j	mg/kg	15-Jun-05		0.064
F5F170373010	Soil	BRC-BCG-06C-8-12	Copper	21.3 E	J	j	mg/kg	15-Jun-05		0.2205
F5F170373010	Soil	BRC-BCG-06C-8-12	Iron	16800 N			mg/kg	15-Jun-05		1.173
F5F170373010	Soil	BRC-BCG-06C-8-12	Lead	6			mg/kg	15-Jun-05		0.0506
F5F170373010	Soil	BRC-BCG-06C-8-12	Lithium	19.2			mg/kg	15-Jun-05		0.2425
F5F170373010	Soil	BRC-BCG-06C-8-12	Magnesium	14400 E	J	j	mg/kg	15-Jun-05		1.176
F5F170373010	Soil	BRC-BCG-06C-8-12	Manganese	503 NE	J	j	mg/kg	15-Jun-05		0.0131
F5F170373010	Soil	BRC-BCG-06C-8-12	Mercury	0.0085 B	J	g	mg/kg	15-Jun-05		0.0072
F5F170373010	Soil	BRC-BCG-06C-8-12	Molybdenum	0.45 B	J	g	mg/kg	15-Jun-05		0.241
F5F170373010	Soil	BRC-BCG-06C-8-12	Nickel	19.3 E	J	j	mg/kg	15-Jun-05		0.1295

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BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F170373010	Soil	BRC-BCG-06C-8-12	Niobium	N U	UJ-	e	mg/kg	15-Jun-05		1.015
F5F170373010	Soil	BRC-BCG-06C-8-12	Palladium	1			mg/kg	15-Jun-05		0.0765
F5F170373010	Soil	BRC-BCG-06C-8-12	Phosphorus	1500			mg/kg	15-Jun-05		1.913
F5F170373010	Soil	BRC-BCG-06C-8-12	Platinum	U			mg/kg	15-Jun-05		0.0435
F5F170373010	Soil	BRC-BCG-06C-8-12	Potassium	956 E	J	j	mg/kg	15-Jun-05		2.079
F5F170373010	Soil	BRC-BCG-06C-8-12	Selenium	U			mg/kg	15-Jun-05		0.1579
F5F170373010	Soil	BRC-BCG-06C-8-12	Silicon	656 N			mg/kg	15-Jun-05		0.5289
F5F170373010	Soil	BRC-BCG-06C-8-12	Silver	N U			mg/kg	15-Jun-05		0.2609
F5F170373010	Soil	BRC-BCG-06C-8-12	Sodium	831			mg/kg	15-Jun-05		7.567
F5F170373010	Soil	BRC-BCG-06C-8-12	Strontium	488 E	J	j	mg/kg	15-Jun-05		0.0735
F5F170373010	Soil	BRC-BCG-06C-8-12	Thallium	0.22 B	U	b	mg/kg	15-Jun-05		0.5428
F5F170373010	Soil	BRC-BCG-06C-8-12	Tin	0.51 B	J	g	mg/kg	15-Jun-05		0.187
F5F170373010	Soil	BRC-BCG-06C-8-12	Titanium	650 NE	J	j	mg/kg	15-Jun-05		0.1175
F5F170373010	Soil	BRC-BCG-06C-8-12	Tungsten	1.9 BE	UJ	b, j	mg/kg	15-Jun-05		0.0175
F5F170373010	Soil	BRC-BCG-06C-8-12	Uranium	1.5			mg/kg	15-Jun-05		0.038
F5F170373010	Soil	BRC-BCG-06C-8-12	Vanadium	59.5 E	J	j	mg/kg	15-Jun-05		0.5535
F5F170373010	Soil	BRC-BCG-06C-8-12	Zinc	42.6 N	J+	e	mg/kg	15-Jun-05		0.2207
F5F170373010	Soil	BRC-BCG-06C-8-12	Zirconium	124 NE	J	j	mg/kg	15-Jun-05		0.0874
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Chloride	1.3 B	U	b	mg/kg	14-Jun-05		0.25
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Fluoride	U			mg/kg	14-Jun-05		0.051
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Nitrate	U	UJ	h	mg/kg	14-Jun-05		0.1
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Nitrite	U	UJ	h	mg/kg	14-Jun-05		0.061
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Sulfate	4.8 B	U	b	mg/kg	14-Jun-05		0.612
F5F160308023	Soil	BRC-BCG-09C-0-0.5	CEC	16.5			meq/100g	14-Jun-05		
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Cr VI	U			mg/kg	14-Jun-05		0.251
F5F160308023	Soil	BRC-BCG-09C-0-0.5	pH (solid)	9	J	h	none	14-Jun-05		
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Actinium 227 [d]	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Actinium 228	1.7			pCi/g	14-Jun-05	0.59	0.34
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Bismuth 210 [e]	0.4 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Bismuth 211 [f]	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Bismuth 212	0.83 U			pCi/g	14-Jun-05	0.48	0.96
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Bismuth 214	0.75			pCi/g	14-Jun-05	0.2	0.33
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Cobalt 57	-0.006 U			pCi/g	14-Jun-05	0.027	0.045
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Cobalt 60	-0.014 U			pCi/g	14-Jun-05	0.054	0.097
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lead 210	0.4 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lead 211 [g]	0.18 U			pCi/g	14-Jun-05	0.37	0.67

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lead 212	1.42			pCi/g	14-Jun-05	0.21	0.13
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lead 214	0.71			pCi/g	14-Jun-05	0.18	0.15
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Polonium 210 [n]	0.4 U			pCi/g	14-Jun-05	1.1	1.9
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Polonium 212 [l]	0.53 U			pCi/g	14-Jun-05	0.31	0.61
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Polonium 214 [j]	0.75			pCi/g	14-Jun-05	0.2	0.13
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Polonium 215 [k]	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Polonium 216 [l]	1.42			pCi/g	14-Jun-05	0.21	0.13
HDRG71C4	Soil	BRC-BCG-09C-0-0.5	Polonium 218 [m]	1.18	J	n	pCi/g	14-Jun-05	0.15	0.0905
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Potassium 40	23.2			pCi/g	14-Jun-05	3.3	0.8
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Protactinium 234	-0.05 U			pCi/g	14-Jun-05	0.14	0.24
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Radium 223 [n]	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Radium 224 [o]	1.42			pCi/g	14-Jun-05	0.21	0.13
HDRG71C4	Soil	BRC-BCG-09C-0-0.5	Radium 226	1.18	J	n	pCi/g	14-Jun-05	0.15	0.0905
HDRG71C5	Soil	BRC-BCG-09C-0-0.5	Radium 228	2.49			pCi/g	14-Jun-05	0.27	0.57
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thallium 207 [p]	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thallium 208	0.51			pCi/g	14-Jun-05	0.13	0.09
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 227	0.18 U			pCi/g	14-Jun-05	0.37	0.67
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 228	1.8			pCi/g	14-Jun-05	0.35	0.17
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 230	1.02			pCi/g	14-Jun-05	0.25	0.08
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 231	0.027 U			pCi/g	14-Jun-05	0.046	0.036
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 232	1.72			pCi/g	14-Jun-05	0.33	0.05
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thorium 234	0.43 U			pCi/g	14-Jun-05	0.57	1
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Uranium 233/234	0.95 J	U	b	pCi/g	14-Jun-05	0.22	0.05
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Uranium 235	0.027 U			pCi/g	14-Jun-05	0.046	0.036
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Uranium 238	0.78 J	J	k	pCi/g	14-Jun-05	0.2	0.05
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Moisture (%)	1.4			percent	14-Jun-05		
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Aluminum	10200 NE	J	j	mg/kg	14-Jun-05		2
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Antimony	N U	UJ-	e	mg/kg	14-Jun-05		0.3298
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Arsenic	3.5			mg/kg	14-Jun-05		0.1278
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Barium	283 NE	J	j	mg/kg	14-Jun-05		0.152
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Beryllium	0.44 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Boron	4.9 B	U	b	mg/kg	14-Jun-05		3.2
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Cadmium	N U	UJ-	e	mg/kg	14-Jun-05		0.1291
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Calcium	23000 NE	J	j	mg/kg	14-Jun-05		1.028
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Chromium	10.3			mg/kg	14-Jun-05		0.1841
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Cobalt	13.2 E	J	j	mg/kg	14-Jun-05		0.064

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Copper	19.7 E	J	j	mg/kg	14-Jun-05		0.2205
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Iron	17200 NE	J	j	mg/kg	14-Jun-05		1.173
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lead	13.7			mg/kg	14-Jun-05		0.0506
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Lithium	11.3			mg/kg	14-Jun-05		0.2425
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Magnesium	10800 E	J	j	mg/kg	14-Jun-05		1.176
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Manganese	766 NE	J	j	mg/kg	14-Jun-05		0.0131
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Mercury	0.025 B	J	g	mg/kg	14-Jun-05		0.0072
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Molybdenum	0.45 B	J	g	mg/kg	14-Jun-05		0.241
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Nickel	19.6 E	J	j	mg/kg	14-Jun-05		0.1295
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Niobium	1.7 BN	UJ-	b, e	mg/kg	14-Jun-05		1.015
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Palladium	0.47			mg/kg	14-Jun-05		0.0765
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Phosphorus	1580 NE	J	j	mg/kg	14-Jun-05		1.913
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Platinum	U			mg/kg	14-Jun-05		0.0435
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Potassium	1680 NE	J	j	mg/kg	14-Jun-05		2.079
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Selenium	U			mg/kg	14-Jun-05		0.1579
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Silicon	555 NE	J	j	mg/kg	14-Jun-05		0.5289
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Silver	U			mg/kg	14-Jun-05		0.2609
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Sodium	399 E	J	j	mg/kg	14-Jun-05		7.567
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Strontium	217 N*E	J	j, d	mg/kg	14-Jun-05		0.0735
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Thallium	1.6			mg/kg	14-Jun-05		0.5428
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Tin	0.76 B	J	g	mg/kg	14-Jun-05		0.187
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Titanium	767 NE	J	j	mg/kg	14-Jun-05		0.1175
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Tungsten	1.5 BE	UJ	b, j	mg/kg	14-Jun-05		0.0175
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Uranium	0.98 B	J	g	mg/kg	14-Jun-05		0.038
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Vanadium	48.8 NE	J	j	mg/kg	14-Jun-05		0.5535
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Zinc	70.6 N			mg/kg	14-Jun-05		0.2207
F5F160308023	Soil	BRC-BCG-09C-0-0.5	Zirconium	137 NE	J	j	mg/kg	14-Jun-05		0.0874
F5F170373023	Water	RINSATE BLANK	Cr VI	U			ug/l	16-Jun-05		1.825
F5F180132032	Water	RINSATE BLANK	Cr VI	U			ug/l	16-Jun-05		1.825
F5F170373023	Water	RINSATE BLANK	Actinium 227 [d]	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Actinium 227 [d]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Actinium 228	-7 U			pCi/l	16-Jun-05	28	57
F5F180132031	Water	RINSATE BLANK	Actinium 228	1 U			pCi/l	16-Jun-05	28	57
F5F170373023	Water	RINSATE BLANK	Bismuth 210 [e]	-20 U			pCi/l	16-Jun-05	130	250
F5F180132031	Water	RINSATE BLANK	Bismuth 210 [e]	10 U			pCi/l	16-Jun-05	130	260
F5F170373023	Water	RINSATE BLANK	Bismuth 211 [f]	3 U			pCi/l	16-Jun-05	70	130

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132031	Water	RINSATE BLANK	Bismuth 211 [f]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Bismuth 212	-4 U			pCi/l	16-Jun-05	53	100
F5F180132031	Water	RINSATE BLANK	Bismuth 212	0.4 U			pCi/l	16-Jun-05	51	100
F5F170373023	Water	RINSATE BLANK	Bismuth 214	-3 U			pCi/l	16-Jun-05	14	27
F5F180132031	Water	RINSATE BLANK	Bismuth 214	-1 U			pCi/l	16-Jun-05	17	32
F5F170373023	Water	RINSATE BLANK	Cobalt 57	-2.1 U			pCi/l	16-Jun-05	4	6.9
F5F180132031	Water	RINSATE BLANK	Cobalt 57	0.4 U			pCi/l	16-Jun-05	3.1	5.6
F5F170373023	Water	RINSATE BLANK	Cobalt 60	3.3 U			pCi/l	16-Jun-05	8.7	20
F5F180132031	Water	RINSATE BLANK	Cobalt 60	-2 U			pCi/l	16-Jun-05	12	24
F5F170373023	Water	RINSATE BLANK	Gross Alpha	0.11 U			pCi/l	16-Jun-05	0.7	1.3
F5F170373023	Water	RINSATE BLANK	Gross Beta	0.09 U			pCi/l	16-Jun-05	1.1	1.9
F5F170373023	Water	RINSATE BLANK	Lead 210	-20 U			pCi/l	16-Jun-05	130	250
F5F180132031	Water	RINSATE BLANK	Lead 210	10 U			pCi/l	16-Jun-05	130	260
F5F170373023	Water	RINSATE BLANK	Lead 211 [g]	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Lead 211 [g]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Lead 212	14 U			pCi/l	16-Jun-05	11	23
F5F180132031	Water	RINSATE BLANK	Lead 212	2 U			pCi/l	16-Jun-05	10	20
F5F170373023	Water	RINSATE BLANK	Lead 214	-2 U			pCi/l	16-Jun-05	13	24
F5F180132031	Water	RINSATE BLANK	Lead 214	11 U			pCi/l	16-Jun-05	16	33
F5F170373023	Water	RINSATE BLANK	Polonium 210 [h]	-20 U			pCi/l	16-Jun-05	130	250
F5F180132031	Water	RINSATE BLANK	Polonium 210 [h]	10 U			pCi/l	16-Jun-05	130	260
F5F170373023	Water	RINSATE BLANK	Polonium 212 [i]	-2 U			pCi/l	16-Jun-05	34	67
F5F180132031	Water	RINSATE BLANK	Polonium 212 [i]	0.2 U			pCi/l	16-Jun-05	33	65
F5F170373023	Water	RINSATE BLANK	Polonium 214 [j]	-3 U			pCi/l	16-Jun-05	14	27
F5F180132031	Water	RINSATE BLANK	Polonium 214 [j]	-1 U			pCi/l	16-Jun-05	17	32
F5F170373023	Water	RINSATE BLANK	Polonium 215 [k]	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Polonium 215 [k]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Polonium 216 [l]	14 U			pCi/l	16-Jun-05	11	23
F5F180132031	Water	RINSATE BLANK	Polonium 216 [l]	2 U			pCi/l	16-Jun-05	10	20
F5F170373023	Water	RINSATE BLANK	Potassium 40	-2 U			pCi/l	16-Jun-05	110	230
F5F180132031	Water	RINSATE BLANK	Potassium 40	24 U			pCi/l	16-Jun-05	71	160
F5F170373023	Water	RINSATE BLANK	Protactinium 234	-10 U			pCi/l	16-Jun-05	20	34
F5F180132031	Water	RINSATE BLANK	Protactinium 234	13 U			pCi/l	16-Jun-05	17	34
F5F170373023	Water	RINSATE BLANK	Radium 223 [n]	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Radium 223 [n]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Radium 224 [o]	14 U			pCi/l	16-Jun-05	11	23

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132031	Water	RINSATE BLANK	Radium 224 [o]	2 U			pCi/l	16-Jun-05	10	20
F5F170373023	Water	RINSATE BLANK	Thallium 207 [p]	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Thallium 207 [p]	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Thallium 208	3.3 U			pCi/l	16-Jun-05	7.4	15
F5F180132031	Water	RINSATE BLANK	Thallium 208	3.7 U			pCi/l	16-Jun-05	6.3	13
F5F170373023	Water	RINSATE BLANK	Thorium 227	3 U			pCi/l	16-Jun-05	70	130
F5F180132031	Water	RINSATE BLANK	Thorium 227	11 U			pCi/l	16-Jun-05	53	100
F5F170373023	Water	RINSATE BLANK	Thorium 228	0.11 U			pCi/l		0.19	0.27
F5F180132031	Water	RINSATE BLANK	Thorium 228	-0.01 U			pCi/l	16-Jun-05	0.093	0.18
F5F170373023	Water	RINSATE BLANK	Thorium 230	0.37 J			pCi/l		0.2	0.13
F5F180132031	Water	RINSATE BLANK	Thorium 230	0.33 J			pCi/l	16-Jun-05	0.18	0.09
F5F170373023	Water	RINSATE BLANK	Thorium 231	0.0576 U			pCi/l		0.0999	0.078
F5F180132031	Water	RINSATE BLANK	Thorium 231	-0.01 U			pCi/l	16-Jun-05	0.096	0.21
F5F170373023	Water	RINSATE BLANK	Thorium 232	-0.004 U			pCi/l		0.052	0.1
F5F180132031	Water	RINSATE BLANK	Thorium 232	0.01 U			pCi/l	16-Jun-05	0.055	0.12
F5F170373023	Water	RINSATE BLANK	Thorium 234	21 U			pCi/l	16-Jun-05	73	140
F5F180132031	Water	RINSATE BLANK	Thorium 234	-59 U			pCi/l	16-Jun-05	65	120
F5F170373023	Water	RINSATE BLANK	Uranium 233/234	0.039 U			pCi/l		0.096	0.16
F5F180132031	Water	RINSATE BLANK	Uranium 233/234	0.36 J			pCi/l	16-Jun-05	0.24	0.24
F5F170373023	Water	RINSATE BLANK	Uranium 235	0.0576 U			pCi/l		0.0999	0.078
F5F180132031	Water	RINSATE BLANK	Uranium 235	-0.01 U			pCi/l	16-Jun-05	0.096	0.21
F5F170373023	Water	RINSATE BLANK	Uranium 238	0.052 U			pCi/l		0.09	0.13
F5F180132031	Water	RINSATE BLANK	Uranium 238	0.17 J			pCi/l	16-Jun-05	0.15	0.16
F5F170373023	Water	RINSATE BLANK	Aluminum	60.5			ug/l	16-Jun-05		8.509
F5F180132031	Water	RINSATE BLANK	Aluminum	49.1			ug/l	16-Jun-05		8.509
F5F170373023	Water	RINSATE BLANK	Antimony	U			ug/l	16-Jun-05		1.587
F5F180132031	Water	RINSATE BLANK	Antimony	U			ug/l	16-Jun-05		1.587
F5F170373023	Water	RINSATE BLANK	Arsenic	U			ug/l	16-Jun-05		1.33
F5F180132031	Water	RINSATE BLANK	Arsenic	U			ug/l	16-Jun-05		1.33
F5F170373023	Water	RINSATE BLANK	Barium	3.1 B			ug/l	16-Jun-05		0.6
F5F180132031	Water	RINSATE BLANK	Barium	3.9 B			ug/l	16-Jun-05		0.6
F5F170373023	Water	RINSATE BLANK	Beryllium	U			ug/l	16-Jun-05		0.18
F5F180132031	Water	RINSATE BLANK	Beryllium	U			ug/l	16-Jun-05		0.18
F5F170373023	Water	RINSATE BLANK	Boron	151			ug/l	16-Jun-05		5.5
F5F180132031	Water	RINSATE BLANK	Boron	149			ug/l	16-Jun-05		5.5
F5F170373023	Water	RINSATE BLANK	Cadmium	U			ug/l	16-Jun-05		0.864

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132031	Water	RINSATE BLANK	Cadmium	U			ug/l	16-Jun-05		0.864
F5F170373023	Water	RINSATE BLANK	Calcium	306 B			ug/l	16-Jun-05		10.7
F5F180132031	Water	RINSATE BLANK	Calcium	289 B			ug/l	16-Jun-05		10.7
F5F170373023	Water	RINSATE BLANK	Chromium	U			ug/l	16-Jun-05		1.91
F5F180132031	Water	RINSATE BLANK	Chromium	U			ug/l	16-Jun-05		1.91
F5F170373023	Water	RINSATE BLANK	Cobalt	U			ug/l	16-Jun-05		0.519
F5F180132031	Water	RINSATE BLANK	Cobalt	U			ug/l	16-Jun-05		0.519
F5F170373023	Water	RINSATE BLANK	Copper	18.7			ug/l	16-Jun-05		0.719
F5F180132031	Water	RINSATE BLANK	Copper	25.4			ug/l	16-Jun-05		0.719
F5F170373023	Water	RINSATE BLANK	Iron	43.7 B			ug/l	16-Jun-05		12.6
F5F180132031	Water	RINSATE BLANK	Iron	59.3 B			ug/l	16-Jun-05		12.6
F5F170373023	Water	RINSATE BLANK	Lead	1.3 B			ug/l	16-Jun-05		1.62
F5F180132031	Water	RINSATE BLANK	Lead	U			ug/l	16-Jun-05		1.62
F5F170373023	Water	RINSATE BLANK	Lithium	U			ug/l	16-Jun-05		2.13
F5F180132031	Water	RINSATE BLANK	Lithium	U			ug/l	16-Jun-05		2.13
F5F170373023	Water	RINSATE BLANK	Magnesium	52.2 B			ug/l	16-Jun-05		13
F5F180132031	Water	RINSATE BLANK	Magnesium	42.4 B			ug/l	16-Jun-05		13
F5F170373023	Water	RINSATE BLANK	Manganese	3.9 B			ug/l	16-Jun-05		0.544
F5F180132031	Water	RINSATE BLANK	Manganese	4 B			ug/l	16-Jun-05		0.544
F5F170373023	Water	RINSATE BLANK	Mercury	U			ug/l	16-Jun-05		0.046
F5F180132031	Water	RINSATE BLANK	Mercury	U			ug/l	16-Jun-05		0.046
F5F170373023	Water	RINSATE BLANK	Molybdenum	U			ug/l	16-Jun-05		0.627
F5F180132031	Water	RINSATE BLANK	Molybdenum	U			ug/l	16-Jun-05		0.627
F5F170373023	Water	RINSATE BLANK	Nickel	U			ug/l	16-Jun-05		1.15
F5F180132031	Water	RINSATE BLANK	Nickel	U			ug/l	16-Jun-05		1.15
F5F170373023	Water	RINSATE BLANK	Niobium	20 B			ug/l	16-Jun-05		7.643
F5F180132031	Water	RINSATE BLANK	Niobium	13 B			ug/l	16-Jun-05		7.643
F5F170373023	Water	RINSATE BLANK	Palladium	U			ug/l	16-Jun-05		0.2258
F5F180132031	Water	RINSATE BLANK	Palladium	U			ug/l	16-Jun-05		0.2258
F5F170373023	Water	RINSATE BLANK	Phosphorus	U			ug/l	16-Jun-05		21.5
F5F180132031	Water	RINSATE BLANK	Phosphorus	U			ug/l	16-Jun-05		21.5
F5F170373023	Water	RINSATE BLANK	Platinum	0.11 B			ug/l	16-Jun-05		0.1
F5F180132031	Water	RINSATE BLANK	Platinum	U			ug/l	16-Jun-05		0.1
F5F170373023	Water	RINSATE BLANK	Potassium	30.4 B			ug/l	16-Jun-05		18
F5F180132031	Water	RINSATE BLANK	Potassium	30.4 B			ug/l	16-Jun-05		18
F5F170373023	Water	RINSATE BLANK	Selenium	U			ug/l	16-Jun-05		1.828

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F180132031	Water	RINSATE BLANK	Selenium	U			ug/l	16-Jun-05		1.828
F5F170373023	Water	RINSATE BLANK	Silicon	2390 N			ug/l	16-Jun-05		4.93
F5F180132031	Water	RINSATE BLANK	Silicon	2270 N			ug/l	16-Jun-05		4.93
F5F170373023	Water	RINSATE BLANK	Silver	U			ug/l	16-Jun-05		2.21
F5F180132031	Water	RINSATE BLANK	Silver	U			ug/l	16-Jun-05		2.21
F5F170373023	Water	RINSATE BLANK	Sodium	508 B			ug/l	16-Jun-05		380
F5F180132031	Water	RINSATE BLANK	Sodium	765 B			ug/l	16-Jun-05		380
F5F170373023	Water	RINSATE BLANK	Strontium	1.5 B			ug/l	16-Jun-05		0.5338
F5F180132031	Water	RINSATE BLANK	Strontium	1.4 B			ug/l	16-Jun-05		0.5338
F5F170373023	Water	RINSATE BLANK	Thallium	U			ug/l	16-Jun-05		2.5
F5F180132031	Water	RINSATE BLANK	Thallium	U			ug/l	16-Jun-05		2.5
F5F170373023	Water	RINSATE BLANK	Tin	U			ug/l	16-Jun-05		6.2
F5F180132031	Water	RINSATE BLANK	Tin	U			ug/l	16-Jun-05		6.2
F5F170373023	Water	RINSATE BLANK	Titanium	4.2 B			ug/l	16-Jun-05		0.7
F5F180132031	Water	RINSATE BLANK	Titanium	3.1 B			ug/l	16-Jun-05		0.7
F5F170373023	Water	RINSATE BLANK	Tungsten	6.5 BN			ug/l	16-Jun-05		0.884
F5F180132031	Water	RINSATE BLANK	Tungsten	2.5 BN			ug/l	16-Jun-05		0.884
F5F170373023	Water	RINSATE BLANK	Uranium	U			ug/l	16-Jun-05		0.1256
F5F180132031	Water	RINSATE BLANK	Uranium	U			ug/l	16-Jun-05		0.1256
F5F170373023	Water	RINSATE BLANK	Vanadium	13.5			ug/l	16-Jun-05		1.627
F5F180132031	Water	RINSATE BLANK	Vanadium	7.9 B			ug/l	16-Jun-05		1.627
F5F170373023	Water	RINSATE BLANK	Zinc	12.2 B			ug/l	16-Jun-05		1.18
F5F180132031	Water	RINSATE BLANK	Zinc	14.7 B			ug/l	16-Jun-05		1.18
F5F170373023	Water	RINSATE BLANK	Zirconium	U			ug/l	16-Jun-05		0.608
F5F180132031	Water	RINSATE BLANK	Zirconium	U			ug/l	16-Jun-05		0.608
F5F210233018	Water	RINSATE BLANK-RB	Cr VI	U			ug/l	17-Jun-05		1.825
F5F210233018	Water	RINSATE BLANK-RB	Actinium 227 [d]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Actinium 228	-4 U			pCi/l	17-Jun-05	34	68
F5F210233018	Water	RINSATE BLANK-RB	Bismuth 210 [e]	-50 U			pCi/l	17-Jun-05	140	250
F5F210233018	Water	RINSATE BLANK-RB	Bismuth 211 [f]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Bismuth 212	36 U			pCi/l	17-Jun-05	66	140
F5F210233018	Water	RINSATE BLANK-RB	Bismuth 214	2 U			pCi/l	17-Jun-05	17	32
F5F210233018	Water	RINSATE BLANK-RB	Cobalt 57	0.3 U			pCi/l	17-Jun-05	3.7	6.8
F5F210233018	Water	RINSATE BLANK-RB	Cobalt 60	0.1 U			pCi/l	17-Jun-05	6.6	15
F5F210233018	Water	RINSATE BLANK-RB	Gross Alpha	0.81 U			pCi/l	17-Jun-05	0.7	1.1
F5F210233018	Water	RINSATE BLANK-RB	Gross Beta	0.2 U			pCi/l	17-Jun-05	1.1	1.8

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233018	Water	RINSATE BLANK-RB	Lead 210	-50 U			pCi/l	17-Jun-05	140	250
F5F210233018	Water	RINSATE BLANK-RB	Lead 211 [g]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Lead 212	15 U			pCi/l	17-Jun-05	12	24
F5F210233018	Water	RINSATE BLANK-RB	Lead 214	-5 U			pCi/l	17-Jun-05	15	26
F5F210233018	Water	RINSATE BLANK-RB	Polonium 210 [h]	-50 U			pCi/l	17-Jun-05	140	250
F5F210233018	Water	RINSATE BLANK-RB	Polonium 212 [i]	23 U			pCi/l	17-Jun-05	42	88
F5F210233018	Water	RINSATE BLANK-RB	Polonium 214 [j]	2 U			pCi/l	17-Jun-05	17	32
F5F210233018	Water	RINSATE BLANK-RB	Polonium 215 [k]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Polonium 216 [l]	15 U			pCi/l	17-Jun-05	12	24
F5F210233018	Water	RINSATE BLANK-RB	Potassium 40	-50 U			pCi/l	17-Jun-05	100	200
F5F210233018	Water	RINSATE BLANK-RB	Protactinium 234	-5 U			pCi/l	17-Jun-05	19	34
F5F210233018	Water	RINSATE BLANK-RB	Radium 223 [n]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Radium 224 [o]	15 U			pCi/l	17-Jun-05	12	24
F5F210233018	Water	RINSATE BLANK-RB	Thallium 207 [p]	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Thallium 208	2.6 U			pCi/l	17-Jun-05	8.3	17
F5F210233018	Water	RINSATE BLANK-RB	Thorium 227	-16 U			pCi/l	17-Jun-05	68	120
F5F210233018	Water	RINSATE BLANK-RB	Thorium 228	0.065 U			pCi/l	17-Jun-05	0.087	0.12
F5F210233018	Water	RINSATE BLANK-RB	Thorium 230	0.2 J			pCi/l	17-Jun-05	0.13	0.05
F5F210233018	Water	RINSATE BLANK-RB	Thorium 231	0.02 U			pCi/l	17-Jun-05	0.11	0.21
F5F210233018	Water	RINSATE BLANK-RB	Thorium 232	0 U			pCi/l	17-Jun-05	0	0.05
F5F210233018	Water	RINSATE BLANK-RB	Thorium 234	25 U			pCi/l	17-Jun-05	68	140
F5F210233018	Water	RINSATE BLANK-RB	Uranium 233/234	0.16 U			pCi/l	17-Jun-05	0.19	0.24
F5F210233018	Water	RINSATE BLANK-RB	Uranium 235	0.02 U			pCi/l	17-Jun-05	0.11	0.21
F5F210233018	Water	RINSATE BLANK-RB	Uranium 238	0.2 J			pCi/l	17-Jun-05	0.16	0.16
F5F210233018	Water	RINSATE BLANK-RB	Aluminum	239			ug/l	17-Jun-05		8.509
F5F210233018	Water	RINSATE BLANK-RB	Antimony	U			ug/l	17-Jun-05		1.587
F5F210233018	Water	RINSATE BLANK-RB	Arsenic	1.7 B			ug/l	17-Jun-05		1.33
F5F210233018	Water	RINSATE BLANK-RB	Barium	9.6 B			ug/l	17-Jun-05		0.6
F5F210233018	Water	RINSATE BLANK-RB	Beryllium	U			ug/l	17-Jun-05		0.18
F5F210233018	Water	RINSATE BLANK-RB	Boron	150			ug/l	17-Jun-05		5.5
F5F210233018	Water	RINSATE BLANK-RB	Cadmium	U			ug/l	17-Jun-05		0.864
F5F210233018	Water	RINSATE BLANK-RB	Calcium	1890 B			ug/l	17-Jun-05		10.7
F5F210233018	Water	RINSATE BLANK-RB	Chromium	1.6 B			ug/l	17-Jun-05		1.91
F5F210233018	Water	RINSATE BLANK-RB	Cobalt	U			ug/l	17-Jun-05		0.519
F5F210233018	Water	RINSATE BLANK-RB	Copper	76.8			ug/l	17-Jun-05		0.719
F5F210233018	Water	RINSATE BLANK-RB	Iron	230			ug/l	17-Jun-05		12.6

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]		Unit	Sample Date	Rad Error [c]	SQL
F5F210233018	Water	RINSATE BLANK-RB	Lead	6			ug/l	17-Jun-05		1.62
F5F210233018	Water	RINSATE BLANK-RB	Lithium	U			ug/l	17-Jun-05		2.13
F5F210233018	Water	RINSATE BLANK-RB	Magnesium	173 B			ug/l	17-Jun-05		13
F5F210233018	Water	RINSATE BLANK-RB	Manganese	15.4			ug/l	17-Jun-05		0.544
F5F210233018	Water	RINSATE BLANK-RB	Mercury	U			ug/l	17-Jun-05		0.046
F5F210233018	Water	RINSATE BLANK-RB	Molybdenum	U			ug/l	17-Jun-05		0.627
F5F210233018	Water	RINSATE BLANK-RB	Nickel	1.2 B			ug/l	17-Jun-05		1.15
F5F210233018	Water	RINSATE BLANK-RB	Niobium	8.9 B			ug/l	17-Jun-05		7.643
F5F210233018	Water	RINSATE BLANK-RB	Palladium	U			ug/l	17-Jun-05		0.2258
F5F210233018	Water	RINSATE BLANK-RB	Phosphorus	45.9 B			ug/l	17-Jun-05		21.5
F5F210233018	Water	RINSATE BLANK-RB	Platinum	U			ug/l	17-Jun-05		0.1
F5F210233018	Water	RINSATE BLANK-RB	Potassium	92.5 B			ug/l	17-Jun-05		18
F5F210233018	Water	RINSATE BLANK-RB	Selenium	2.2 B			ug/l	17-Jun-05		1.828
F5F210233018	Water	RINSATE BLANK-RB	Silicon	2040 N			ug/l	17-Jun-05		4.93
F5F210233018	Water	RINSATE BLANK-RB	Silver	U			ug/l	17-Jun-05		2.21
F5F210233018	Water	RINSATE BLANK-RB	Sodium	1780 B			ug/l	17-Jun-05		380
F5F210233018	Water	RINSATE BLANK-RB	Strontium	6.7 B			ug/l	17-Jun-05		0.5338
F5F210233018	Water	RINSATE BLANK-RB	Thallium	U			ug/l	17-Jun-05		2.5
F5F210233018	Water	RINSATE BLANK-RB	Tin	U			ug/l	17-Jun-05		6.2
F5F210233018	Water	RINSATE BLANK-RB	Titanium	8 B			ug/l	17-Jun-05		0.7
F5F210233018	Water	RINSATE BLANK-RB	Tungsten	6.6 BN			ug/l	17-Jun-05		0.884
F5F210233018	Water	RINSATE BLANK-RB	Uranium	0.49 B			ug/l	17-Jun-05		0.1256
F5F210233018	Water	RINSATE BLANK-RB	Vanadium	U			ug/l	17-Jun-05		1.627
F5F210233018	Water	RINSATE BLANK-RB	Zinc	69.9			ug/l	17-Jun-05		1.18
F5F210233018	Water	RINSATE BLANK-RB	Zirconium	U			ug/l	17-Jun-05		0.608

Notes:

B	Indicates that results are less than the practical quantitation limit.
CEC	Cation exchange capacity
Cr VI	Hexavalent chromium
E	Indicates that the laboratory QC limits for serioal dilution were not met.
J	Indicates that the laboratory qualified the result as estimated.
meq/100g	Milliequivalent per 100 gram
mg/kg	Milligram per kilogram
N	Indicates that laboratory QC limits for matrix spike accuracy were not met.

TABLE C-2
BMI SOIL BACKGROUND FIELD QC ANALYTICAL DATA SUMMARY

Laboratory ID	Matrix	Sample ID	Analyte	Result [a]	Validation [b]	Unit	Sample Date	Rad Error [c]	SQL

pCi/g PicoCurie per gram
pCi/L PicoCurie per liter
SQL Sample quantitation limit; equivalent to the method detection limit corrected for sample preparation factors and moisture content.
U The analyte was undetected in the sample.
ug/L Microgram per liter

a If the result cell has no numerical value and the qualifier "U", then the analyte was undetected at the sample quantitation limit listed under "SQL." The result includes the numerical value and the qualifier(s) as reported by the laboratory; validation qualifiers supersede laboratory qualifiers. Laboratory result qualifiers are defined in the notes above; while the validation qualifiers and codes are defined in Table C-3.
b Validation qualifiers and comments codes are defined in Table C-3.
c Rad error represents the 2-sigma error applicable to radionuclide results only.
d Actinium 227 assumes equilibrium w/ Th-227; quantified from Th-227.
e Bismuth 210 assumes equilibrium w/ Pb-210; quantified from Pb-210.
f Bismuth 211 assumes equilibrium w/ Th-227; quantified from Th-227.
g Lead 211 assumes equilibrium w/ Th-227; quantified from Th-227.
h Polonium 210 assumes equilibrium w/ Bi-210; quantified from Bi-210.
i Polonium 212 assumes equilibrium w/ Bi-212; quantified from Bi-212.
j Polonium 214 assumes equilibrium w/ Bi-214; quantified from Bi-214.
k Polonium 215 assumes equilibrium w/ Th-227; quantified from Th-227.
l Polonium 216 assumes equilibrium w/ Ra-224; quantified from Ra-224.
m Polonium 218 assumes equilibrium w/ Ra-226; quantified from Ra-226.
n Radium 223 assumes equilibrium w/ Th-227; quantified from Th-227.
o Radium 224 assumes equilibrium w/ Pb-212; quantified from Pb-212.
p Thallium 207 assumes equilibrium w/ Th-227; quantified from Th-227.

TABLE C-3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Validation Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
X	Result is not used for reporting because a more accurate and precise results is reported in its place.
+	Estimated results are possibly biased high based on associated quality control
–	Estimated results are possibly biased low based on associated quality control
Comment Code	**Definition**
a	Surrogate recovery exceeded
b	Laboratory method blank and common blank contamination
c	Calibration criteria exceeded
d	Duplicate precision criteria exceeded
e	Matrix spike or laboratory control sample recovery exceeded
f	Field blank contamination
g	Quantification below practical quantitation limit for stable chemistries
h	Holding time exceeded
i	Internal standard criteria exceeded
j	Other stable chemistry qualification (for example, serial dilution exceedances)
k	Radiochemistry quantitation issue (for example, result less than the required reporting limit)
l	Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy)
m	Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis)
n	Radiochemistry tracer yield criteria exceeded
o	Other radiochemistry qualification (for example, biases due to interference from other radioisotopes)

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.3	2.9		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.1	5.4		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.3	8.4		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.7	10		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12.1	11.5		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	20	14		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	31	17.5		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	33.8		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	46		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	47.7		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	50.7		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	55.2		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	61.5		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	67.7		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	75.8		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	86.6		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	8.4		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	8.1		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	88.4		umhos/cm
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	21.4		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	24.2		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	12.5		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	25.3		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99		%
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	11.8		meq/100g
McCullough	BKG-01	BRC-BKG-01A-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	1.9		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	3.2	2.8		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	6.7	3.9		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	9.2	4.9		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	12.8	5.9		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	22	7.4		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	34	8.9		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	75	18.9		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	150	24.8		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	180	26.5		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	250	30		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	425	36.3		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	850	45.8		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	58.7		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	81.6		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	96.6		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Clay	3.9		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	23		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	233		umhos/cm
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	17.4		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	18.4		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	22.4		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.4		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D422	Texture	Silt	15		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	85		%
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1230		mg/Kg
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	10.9		meq/100g
McCullough	BKG-01	BRC-BKG-01A-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	3.2	4.6		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	6.5	6.9		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	9.1	7.9		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	12.6	9		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	21	11.2		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	33	13.4		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	75	22.8		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	150	29.2		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	180	31		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	250	35		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	425	42.1		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	850	52.8		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	67.1		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	86.7		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Clay	6.9		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.6		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1990		umhos/cm
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	19.3		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	13.3		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	25		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	3.4		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D422	Texture	Silt	16		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.4		%
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2140		mg/Kg
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3110		mg/Kg
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	9.5		meq/100g
McCullough	BKG-01	BRC-BKG-01A-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.3		none
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.2	5.6		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.1	8.6		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.8	10.5		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12	12.5		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	20	15.4		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	30	19.3		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	40.5		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	56.4		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	58.4		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	61.6		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	65.9		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	71.6		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	77.4		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	86.9		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	94.5		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	8.6		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	9.5		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	124		umhos/cm
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	25.4		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	13.1		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	11.6		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.4		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	31.9		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	85.1		%
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3360		mg/Kg
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	11.9		meq/100g
McCullough	BKG-01	BRC-BKG-01B-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	3.3	3.5		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	6.5	5.2		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	8.9	6.3		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	12.7	7.4		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	22	8.9		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	33	11.1		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	75	20.5		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	150	27.1		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	180	28.8		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	250	32.4		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	425	38.3		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	850	47.1		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	58.2		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	80.6		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	95.7		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Clay	5.2		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	22.4		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	498		umhos/cm
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	17.8		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	19.4		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	19.9		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	3.8		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D422	Texture	Silt	15.3		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99.2		%
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1640		mg/Kg
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	9.8		meq/100g
McCullough	BKG-01	BRC-BKG-01B-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	3.3		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	3.2	4.5		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	6.2	6		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	9.1	7		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	12.4	8.5		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	21	10.5		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	33	12		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	75	18.7		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	150	24.3		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	180	25.8		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	250	29.2		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	425	35.2		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	850	44.9		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	60		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	80.2		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	91.3		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	10.2		meq/100g
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Clay	6		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.2		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	2990		umhos/cm
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	16.5		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	19.8		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	24.8		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	3.5		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8		none
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D422	Texture	Silt	12.7		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.4		%
McCullough	BKG-01	BRC-BKG-01B-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3180		mg/Kg
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	2.5		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.2	5.8		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	5.9	11.7		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	7.8	15.7		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	10.7	19.3		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	18	22.9		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	26	25.6		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	45.3		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	59.4		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	61.5		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	64.7		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	69.2		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	75		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	81.1		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	87		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	92.6		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	6.6		meq/100g
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	11.7		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	6		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	133		umhos/cm
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	24		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	13		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	11.8		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	33.6		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-01	BRC-BKG-01C-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	7780		mg/Kg
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	3.4	1.9		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	6.6	2.4		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	9.1	2.9		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	13	3.8		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	22	4.8		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	35	5.7		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	75	12.9		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	150	17.8		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	180	19.5		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	250	23.3		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	425	30.9		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	850	42.8		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	59.2		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	81.3		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	98.7		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	10.9		meq/100g
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Clay	2.4		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	22.1		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	346		umhos/cm
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	17.9		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	18.7		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	28.3		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	3.5		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.5		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.9		%
McCullough	BKG-01	BRC-BKG-01C-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	777		mg/Kg
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	2.4		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	3.1	3.3		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	6.5	5		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	8.8	5.9		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	12.5	7.2		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	21	8.9		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	33	10.1		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	75	16.9		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	150	22.6		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	180	24.3		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	250	28.2		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	425	35.3		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	850	46.4		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	61.6		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	82		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	98.9		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	12.5		meq/100g
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Clay	5		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.4		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	2840		umhos/cm
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	18.4		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	18		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	26.3		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	3.8		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8		none
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D422	Texture	Silt	11.8		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.3		%
McCullough	BKG-01	BRC-BKG-01C-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1770		mg/Kg
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	2.7		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.1	5.5		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6	8.5		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.7	10.3		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	11.9	11.5		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	20	13.7		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	31	16.3		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	25.9		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	31.6		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	33.4		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	36.4		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	41.8		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	50		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	60.5		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	79.7		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	95.3		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	8.5		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.2		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	150		umhos/cm
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	15.9		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	20.3		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	18.7		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.8		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	17.3		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.8		%
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1670		mg/Kg
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	7.6		meq/100g
McCullough	BKG-02	BRC-BKG-02A-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	3.3	2.9		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	6.5	3.9		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	9.1	4.4		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	12.9	5.4		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	22	6.9		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	35	7.9		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	75	15.6		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	150	21.6		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	180	23.8		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	250	27.7		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	425	34.8		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	850	45.3		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	58.3		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	76.7		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	92		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Clay	3.9		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	18.4		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1210		umhos/cm
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	19.2		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	23.3		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	23.5		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	3.1		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D422	Texture	Silt	11.7		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.8		%
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	511	U	mg/Kg
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	12.1		meq/100g
McCullough	BKG-02	BRC-BKG-02A-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	3.3	3.5		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	6.5	5		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	9	5.5		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	12.8	6.5		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	22	8		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	34	10.1		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	75	17.9		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	150	24.3		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	180	26.7		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	250	31.1		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	425	39		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	850	49.7		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	62.3		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	81.6		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	96		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Clay	5		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.3		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	451		umhos/cm
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	21.1		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	18.4		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	23.3		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.9		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D422	Texture	Silt	12.9		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.1		%
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	608		mg/Kg
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	13.6		meq/100g
McCullough	BKG-02	BRC-BKG-02A-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	2.4		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.3	4.7		% passing

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.4	7.3		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.6	8.8		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12.3	9.8		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	21	11.8		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	32	13.7		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	24.4		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	30.9		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	32.7		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	36.5		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	43		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	52.2		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	62.4		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	82		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	93.7		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	7.3		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.7		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	253		umhos/cm
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	18.6		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	18		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	19.4		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	17.1		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.5		%
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	973		mg/Kg
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	13.7		meq/100g
McCullough	BKG-02	BRC-BKG-02B-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.5		none
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.1		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	3.1	3.4		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	6.5	4.8		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	8.9	5.6		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	12.7	6.1		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	22	7.8		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	33	9.7		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	75	18.5		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	150	24.4		% passing

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	180	26.3		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	250	30.4		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	425	37.7		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	850	47.9		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	59.4		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	80.7		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	93.1		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Clay	4.8		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	21.3		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	893		umhos/cm
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	19.3		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	19.3		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	21.7		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.6		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D422	Texture	Silt	13.7		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.9		%
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	511	U	mg/Kg
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	16.5		meq/100g
McCullough	BKG-02	BRC-BKG-02B-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	3.2	3.6		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	6.4	5.5		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	8.7	6.5		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	12.6	7.4		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	22	8.8		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	33	11.2		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	75	20.3		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	150	27.2		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	180	29.2		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	250	33.5		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	425	41		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	850	52.1		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	65.7		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	85		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	98.8		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Clay	5.5		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.3		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	712		umhos/cm
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	20.7		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	15		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	24.7		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.6		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D422	Texture	Silt	14.7		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98		%
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	720		mg/Kg
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	11.3		meq/100g
McCullough	BKG-02	BRC-BKG-02B-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.3		none
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	2.7		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.2	4.9		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.2	7.2		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.8	9		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12.2	10		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	21	11.4		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	32	12.8		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	23.8		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	28		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	29		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	31.3		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	35.4		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	41.9		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	49.8		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	74.8		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	97.8		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	7.2		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	24.9		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	109		umhos/cm
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	11.6		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	25.2		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	14.4		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.6		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	16.6		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.9		%
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1180		mg/Kg
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	8.3		meq/100g
McCullough	BKG-02	BRC-BKG-02C-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	3.3	3.3		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	6.7	4.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	9.2	5.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	12.7	6.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	22	8.3		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	34	9.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	75	19.3		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	150	25.7		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	180	27.6		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	250	31.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	425	39.2		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	850	49.8		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	61.2		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	78.6		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	91.6		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Clay	4.8		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	17.3		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	622		umhos/cm
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	19.9		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	21.4		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	22.1		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	3.6		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D422	Texture	Silt	14.5		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.1		%
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	515	U	mg/Kg
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	10.4		meq/100g
McCullough	BKG-02	BRC-BKG-02C-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.5		none
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	1.4		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	3.3	2.2		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	6.5	3.2		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	9.3	4.1		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	13.1	4.6		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	22	5.6		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	35	7.5		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	75	16.4		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	150	22.2		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	180	24		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	250	27.9		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	425	34.7		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	850	44.3		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	56.3		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	80.6		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	97.3		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Clay	3.2		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	24.3		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	796		umhos/cm
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	18.2		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	19.4		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	21.7		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.8		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D422	Texture	Silt	13.2		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.9		%
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	586		mg/Kg
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	9.6		meq/100g
McCullough	BKG-02	BRC-BKG-02C-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.3		none
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	2.7		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.3	4.6		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.6	6.5		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.8	7.5		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12.6	8.4		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	21	10.3		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	33	13.7		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	32.9		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	48.3		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	50.6		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	54.4		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	59.6		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	66.7		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	74.8		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	85.2		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	94.1		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	6.5		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	10.4		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	85.5		umhos/cm
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	26.7		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	14.8		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	15.2		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.2		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	26.4		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99.4		%
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1520		mg/Kg
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	14.8		meq/100g
McCullough	BKG-03	BRC-BKG-03A-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	1.3	2.8		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	3.1	3.7		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	6.4	5.6		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	8.9	7		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	12.4	8.4		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	21	10.3		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	32	12.6		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	75	22.8		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	150	31		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	180	33.8		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	250	38.4		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	425	45.7		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	850	55.3		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	2000	67		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	4750	83.3		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	9500	96.8		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Clay	5.6		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Coarse Sand	16.3		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	SW9050	Texture	Conductivity	691		umhos/cm
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Fine Sand	23		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Gravel	16.7		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Medium Sand	21.3		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D2216	Solids	Moisture Content	3		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D422	Texture	Silt	17.2		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	97.6		%
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1070		mg/Kg
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	SW9081	CEC	CEC	8.6		meq/100g
McCullough	BKG-03	BRC-BKG-03A-3-7	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.5		none
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	1.3	2.6		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	3.1	4.1		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	6.5	5.7		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	8.9	7.3		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	12.5	8.3		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	21	9.8		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	33	12.4		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	75	22.4		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	150	30.8		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	180	33.5		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	250	38.2		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	425	45.6		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	850	55.3		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	2000	66.5		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	4750	81.4		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	9500	90.8		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	19000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Clay	5.7		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Coarse Sand	14.9		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	SW9050	Texture	Conductivity	680		umhos/cm
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Fine Sand	23.2		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Gravel	18.6		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Medium Sand	20.9		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D2216	Solids	Moisture Content	2.6		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D422	Texture	Silt	16.7		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	D2216	Solids	Solids, Percent	97.4		%
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	932		mg/Kg
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	SW9081	CEC	CEC	9.6		meq/100g
McCullough	BKG-03	BRC-BCG-03A-3-7	FD	6/16/2005	SW9045	pH	pH (solid)	8.5		none
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	1.3	2.5		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	3.2	3.4		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	6.5	5		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	9.1	6		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	12.6	7		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	22	7.9		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	33	9.9		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	75	17		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	150	21.8		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	180	23.6		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	250	27.2		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	425	34		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	850	45.8		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	63.4		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	88.9		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Clay	5		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	25.4		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	754		umhos/cm

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	17		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	11.1		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	29.4		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.9		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D422	Texture	Silt	12		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.7		%
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	881		mg/Kg
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	17.1		meq/100g
McCullough	BKG-03	BRC-BKG-03A-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.3	2.8		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.2	3.7		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.2	5.1		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9.1	6.1		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12.5	7.5		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	21	8.9		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	33	11.7		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	26.3		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	36.4		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	38.8		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	42.3		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	47.9		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	56.4		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	67.7		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	81.9		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	96.1		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	5.1		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	14.2		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	82.2		umhos/cm
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	21.6		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	18.1		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	19.9		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.2		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	21.1		%
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99.1		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1610		mg/Kg
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	9.7		meq/100g
McCullough	BKG-03	BRC-BKG-03B-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	3.3	2.7		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	6.5	3.7		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	8.9	4.6		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	12.7	5.6		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	22	7		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	34	8.4		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	75	18.8		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	150	28.6		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	180	31.9		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	250	37.4		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	425	45.9		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	850	55.9		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	66.6		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	79.5		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	90.9		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Clay	3.7		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	12.9		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	2170		umhos/cm
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	27.1		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	20.5		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	20.7		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.6		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D422	Texture	Silt	15		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	95.8		%
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	703		mg/Kg
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	12.3		meq/100g
McCullough	BKG-03	BRC-BKG-03B-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	3.3	3.2		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	6.5	3.6		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	8.9	5		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	12.7	5.4		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	22	6.8		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	34	8.6		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	75	16.2		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	150	21.6		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	180	23.6		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	250	27.1		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	425	33.5		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	850	43.8		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	58.9		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	81.5		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	97.6		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Clay	3.6		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	22.6		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	2910		umhos/cm
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	17.3		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	18.5		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	25.4		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.5		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D422	Texture	Silt	12.6		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.3		%
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2190		mg/Kg
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	16.1		meq/100g
McCullough	BKG-03	BRC-BKG-03B-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8		none
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.3	3.1		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3	6.2		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.2	8		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.5	8.9		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	12	10.2		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	20	12.9		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	31	15.5		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	33		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	44.9		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	47.7		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	51.7		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	57.5		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	65		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	72.7		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	82		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	90.1		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	8		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	9.3		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	87.5		umhos/cm
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	24.4		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	18		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	15.2		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	2.1		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	25		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1930		mg/Kg
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	7.3		meq/100g
McCullough	BKG-03	BRC-BKG-03C-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.5		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	3.2	3		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	6.5	4		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	8.8	4.5		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	12.8	5.5		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	22	7.1		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	34	9.1		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	75	17.9		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	150	24.9		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	180	27.6		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	250	32.2		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	425	39.9		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	850	49.6		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	61		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	79		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	89.3		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Clay	4		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	18		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1330		umhos/cm
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	22.1		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	21		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	21.1		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D422	Texture	Silt	13.8		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.7		%
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	543		mg/Kg
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	9		meq/100g
McCullough	BKG-03	BRC-BKG-03C-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	2.4		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	3.2	2.8		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	6.4	3.4		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	9.1	4.3		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	12.8	4.8		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	22	6.2		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	34	8.2		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	75	16.3		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	150	21.9		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	180	23.8		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	250	27.2		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	425	33.3		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	850	42.7		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	56.6		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	80		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	94.4		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Clay	3.4		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	23.4		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	2230		umhos/cm
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	17		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	20		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	23.3		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	5.8		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D422	Texture	Silt	12.9		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	95.4		%
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2700		mg/Kg
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	13.7		meq/100g
McCullough	BKG-03	BRC-BKG-03C-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8		none
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.2	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.7	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.4	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.3	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	1.3		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	1.8		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	12.2		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	16.5		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	18.4		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	23.5		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	38.2		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	45		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	61.2		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	78.6		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	92.6		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	18.4	J	meq/100g
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	1.3		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	17.4		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	37.3		umhos/cm
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	26		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	21.4		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	23		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.9		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	10.8		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-04	BRC-BKG-04A-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	579		mg/Kg
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	1.3	4.9		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	3.2	6.5		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	6.6	7.4		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	9.1	9.1		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	12.8	9.9		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	22	10.8		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	35	12.4		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	75	19.4		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	150	24.3		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	180	25.6		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	250	29.1		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	425	36.3		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	850	40.8		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	51		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	66.6		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	81.8		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	14.9	J	meq/100g
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Clay	7.4		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	15.7		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	74		umhos/cm
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	16.9		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	33.4		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	14.6		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.6		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D422	Texture	Silt	12		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	95.5		%
McCullough	BKG-04	BRC-BKG-04A-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	824		mg/Kg
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	1.3	4.6		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	3.2	7.7		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	6.4	10.8		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	9	12.4		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	12.4	14.7		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	21	17.9		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	32	21.7		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	75	30.7		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	150	36.7		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	180	38.2		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	250	42.4		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	425	49.6		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	850	58.7		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	72.5		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	90.1		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	15.6	J	meq/100g
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Clay	10.8		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	17.6		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	143		umhos/cm
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	18.9		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	9.9		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	22.9		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	9.3		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D422	Texture	Silt	19.9		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	79.4		%
McCullough	BKG-04	BRC-BKG-04A-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3040		mg/Kg
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.4		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.2	1.8		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.7	1.8		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.3	1.8		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.3	1.8		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	2.3		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	2.3		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	11.3		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	14.6		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	15.8		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	19.2		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	26.7		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	40.6		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	57.3		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	80.6		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	95.7		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	17.4	J	meq/100g
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	1.8		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	23.3		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	41.2		umhos/cm
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	15.3		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	19.4		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	30.6		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	4		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	9.5		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	98.9		%
McCullough	BKG-04	BRC-BKG-04B-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	901		mg/Kg
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	3.3	2.2		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	6.4	3.1		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	9.2	3.6		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	13	4		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	22	5.4		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	31	15.8		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	75	16.9		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	150	21.3		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	180	22.8		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	250	26.1		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	425	32.5		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	850	42.7		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	54		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	74.9		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	88.6		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	19.4	J	meq/100g
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Clay	3.1		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	20.9		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	95.3		umhos/cm
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	15.6		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	25.1		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	21.5		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.9		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	9.1		none
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D422	Texture	Silt	13.8		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	94.9		%
McCullough	BKG-04	BRC-BKG-04B-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1980		mg/Kg
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	1.4	2.8		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	3.3	5.2		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	6.6	7.5		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	8.8	8.7		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	12.5	9.9		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	21	13.4		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	33	14.6		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	75	24.6		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	150	31.4		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	180	33.7		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	250	38.1		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	425	45.7		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	850	56.8		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	69.6		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	85.1		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	95.4		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	13.2	J	meq/100g
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Clay	7.5		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	15.5		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	273		umhos/cm
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	21.1		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	14.9		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	23.9		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	22.3		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D422	Texture	Silt	17.1		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	82		%
McCullough	BKG-04	BRC-BKG-04B-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2050		mg/Kg
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	2.9		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.3	3.7		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.4	3.8		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.5	3.8		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.2	3.8		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	5.3		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	6.1		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	13.9		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	17.5		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	18.5		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	21.7		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	27.9		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	34.5		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	46.7		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	77.1		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	98.2		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	16.3	J	meq/100g
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	3.8		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	30.4		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	47.9		umhos/cm
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	14		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	22.9		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	18.8		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.8		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	10.1		%
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	98.8		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04C-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1360		mg/Kg
McCullough	BKG-04	BRC-BKG-04C1-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	15.3	J	meq/100g
McCullough	BKG-04	BRC-BKG-04C1-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	4.8		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	3.3	6.3		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	6.4	7.7		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	8.9	9.2		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	12.6	10.6		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	22	12		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	34	13.4		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	75	21.4		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	150	27		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	180	28.7		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	250	32.8		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	425	39.9		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	850	48.3		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	60		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	74.1		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	92.9		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	14.7	J	meq/100g
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Clay	7.7		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	14.1		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	85		umhos/cm
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	18.5		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	25.9		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	20.1		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.9		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D422	Texture	Silt	13.6		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	96		%
McCullough	BKG-04	BRC-BKG-04C-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	852		mg/Kg
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	1.3	3.9		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	3.3	6.2		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	6.4	8.5		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	8.7	9.7		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	12.4	10.8		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	21	13.1		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	32	15.4		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	75	18.1		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	150	23.1		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	180	24.6		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	250	28.2		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	425	34.5		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	850	42.9		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	54		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	76.4		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	96.4		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	10	J	meq/100g
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Clay	8.5		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	22.3		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	197		umhos/cm
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	16.4		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	23.6		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	19.5		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	21.2		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D422	Texture	Silt	9.6		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	80.7		%
McCullough	BKG-04	BRC-BKG-04C-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	747		mg/Kg
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.2	1.2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.7	1.2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.2	1.2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.4	1.6		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	1.6		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	13.6		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	19.1		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	21		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	25.5		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	34.1		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	45.7		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	57		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	81.8		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	97.2		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	15.9	J	meq/100g
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	1.2		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	24.7		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	44.3		umhos/cm
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.5		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	18.2		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	23		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.8		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	12.4		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	98.4		%
McCullough	BKG-05	BRC-BKG-05A-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	834		mg/Kg
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	7.3		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	3.1	11.4		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	6.1	15.7		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	8.7	17.3		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	12.1	19.8		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	20	24		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	31	28.1		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	75	39.3		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	150	46.8		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	180	48.7		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	250	52.9		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	425	59.6		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	850	67.5		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	77		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	90.4		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	98.7		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	18.4	J	meq/100g
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Clay	15.7		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	13.4		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	114		umhos/cm
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.4		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	9.6		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	17.4		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	10.4		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D422	Texture	Silt	23.6		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	89.8		%
McCullough	BKG-05	BRC-BKG-05A-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	879		mg/Kg
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.3	2.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.7	3.1		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.4	3.6		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.2	4.4		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	22	5.7		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	35	7.4		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	18.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	23.8		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	25.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	29.4		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	38.7		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	48		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	62.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	80.2		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	94.2		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	15.4		meq/100g
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	3.1		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	17.9		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	65.6		umhos/cm

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	20.4		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	19.8		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	23.6		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.8		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	15.1		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.5		%
McCullough	BKG-05	BRC-BKG-05AR-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1860		mg/Kg
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	1.8		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	3.3	2.1		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	6.9	2.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	9.5	3		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	13.4	3.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	23	4		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	36	4.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	75	7		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	150	11.1		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	180	12.6		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	250	16.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	425	26		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	850	36.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	52.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	74.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	91.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	14.5		meq/100g
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Clay	2.5		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	22.4		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	103		umhos/cm
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	19		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	25.1		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	26.5		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	21.6		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D422	Texture	Silt	4.5		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	92.8		%
McCullough	BKG-05	BRC-BKG-05AR-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	649		mg/Kg
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	1.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	3.2	3.8		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	6.6	5.8		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	9.2	6.7		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	12.6	7.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	21	9.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	33	12		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	75	20.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	150	25.6		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	180	27.3		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	250	31.4		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	425	40.1		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	850	48.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	62.5		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	79.2		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	87.8		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	94.9		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	15.7		meq/100g
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Clay	5.8		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	16.8		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	494		umhos/cm
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	19.8		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	20.8		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	22.3		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	6.8		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D422	Texture	Silt	14.4		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	93.4		%
McCullough	BKG-05	BRC-BKG-05AR-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	566		mg/Kg
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	0.7		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.3	1.1		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.9	1.1		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.4	1.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.3	1.9		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	1.9		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	2.3		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	10.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	15.1		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	16.8		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	21.3		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	30.9		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	45.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	59.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	77.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	90.5		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	15.5	J	meq/100g
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	1.1		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	18.1		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	38		umhos/cm
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.5		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	22.5		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	28.5		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.6		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	9.4		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	99.1		%
McCullough	BKG-05	BRC-BKG-05B-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1910		mg/Kg
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.3	1.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.6	2.4		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.6	2.8		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.4	3.2		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	23	4.6		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	36	5.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	19		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	25.1		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	26.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	31.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	41.9		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	53.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	69		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	88		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	96.5		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	17.3		meq/100g
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.4		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	19.1		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	73		umhos/cm
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	22.8		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	12		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	27.1		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	2.2		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	16.6		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.2		%
McCullough	BKG-05	BRC-BKG-05BR-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2370		mg/Kg
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	1.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	3.4	2.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	6.7	2.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	9.3	3.2		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	13.4	3.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	23	4.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	36	5.2		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	75	11.8		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	150	14.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	180	15.5		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	250	18.1		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	425	23.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	850	31.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	47.1		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	72.2		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	89.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	15.9		meq/100g
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Clay	2.7		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	25.2		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	105		umhos/cm
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	12.1		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	27.8		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	23.1		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	6.1		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D422	Texture	Silt	9.1		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.1		%
McCullough	BKG-05	BRC-BKG-05BR-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	526		mg/Kg
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	1.2		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	3.4	3		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	6.7	3.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	9.2	4.4		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	13.2	4.8		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	22	6.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	35	8.1		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	75	15.4		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	150	20.3		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	180	21.9		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	250	26		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	425	35.6		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	850	43.7		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	58.6		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	78.8		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	95.3		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	14.2		meq/100g
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Clay	3.9		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.1		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	402		umhos/cm
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	20.2		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	21.2		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	23		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5.5		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D422	Texture	Silt	11.5		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.1		%
McCullough	BKG-05	BRC-BKG-05BR-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	592		mg/Kg
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.2		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.3	1.7		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.5	2.1		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.4	2.5		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.2	3		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	3.9		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	35	4.8		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	14.5		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	20.5		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	22.4		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	26.7		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	33.8		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	42.8		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	53.2		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	78.4		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	96		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	19.2	J	meq/100g
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	2.1		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	25.2		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	83.7		umhos/cm
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	19.2		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	21.6		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	19.4		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.3		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	12.4		%
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	82.9		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05C-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	875		mg/Kg
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.2	2		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.8	2.4		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.3	3.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.3	3.8		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	23	5.1		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	35	7		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	19.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	25.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	27.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	31.8		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	41.2		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	53.2		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	69.9		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	90.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	98.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	17.3		meq/100g
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.4		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.6		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	75.5		umhos/cm
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	21.9		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	9.5		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	28.7		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.8		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	16.9		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3230		mg/Kg
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3880		mg/Kg
McCullough	BKG-05	BRC-BKG-05CR-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	70900		mg/Kg
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	3.2	3.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	6.6	4.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	9.1	4.8		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	13.2	5.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	23	6.4		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	35	9		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	75	14.8		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	150	19		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	180	20.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	250	23.9		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	425	31.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	850	41.2		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	57		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	78.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	91.1		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	17.4		meq/100g
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Clay	4.3		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	21.3		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	147		umhos/cm
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	16.5		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	21.7		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	25.7		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	7.2		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.5		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	94.5		%
McCullough	BKG-05	BRC-BKG-05CR-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1130		mg/Kg
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	4.2		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	3.2	6.7		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	6.2	9.4		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	8.8	11.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	12.3	13.2		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	21	15.9		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	32	18.6		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	75	25.7		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	150	31.4		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	180	33		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	250	37.2		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	425	44.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	850	53.3		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	66.1		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	82.9		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	96.5		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	8.7		meq/100g
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Clay	9.4		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	16.8		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	526		umhos/cm
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	18.8		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	17.1		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	21.6		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D422	Texture	Silt	16.3		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.5		%
McCullough	BKG-05	BRC-BKG-05CR-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	743		mg/Kg
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	2.1		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.2	4.7		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.4	7.8		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	8.8	9.9		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	12.2	12		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	20	15.2		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	31	19.4		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	36.5		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	52.5		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	55.8		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	61.8		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	69.7		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	77.7		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	84.3		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	91		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	97.3		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	7.8		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	6.7		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	1020		umhos/cm
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	33.2		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	9		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	14.6		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	28.7		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1000		mg/Kg
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1070		mg/Kg
McCullough	BKG-06	BRC-BKG-06A-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	60600		mg/Kg
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	3.2	3.9		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	6.5	6.2		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	9.1	7.3		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	12.6	8.4		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	21	10.7		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	34	11.8		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	75	18.3		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	150	23.6		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	180	25.2		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	250	28.8		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	425	35.2		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	850	44.5		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	57.3		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	77.1		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	93.2		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Clay	6.2		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	19.7		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	2340		umhos/cm
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	16.8		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	22.9		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	22.2		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.7		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D422	Texture	Silt	12.2		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96.5		%
McCullough	BKG-06	BRC-BKG-06A-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1450		mg/Kg
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	3.2	3.9		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	6.5	7.3		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	9.1	8.4		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	12.5	9.6		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	21	11.8		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	33	14.7		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	75	21.6		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	150	27.6		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	180	29.3		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	250	33.1		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	425	39.8		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	850	49.7		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	62.8		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	79.9		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	96.3		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Clay	7.3		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	17.1		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	655		umhos/cm
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	18.2		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	20.1		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	23		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	3.8		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D422	Texture	Silt	14.3		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	97.1		%
McCullough	BKG-06	BRC-BKG-06A-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	630		mg/Kg
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.2	4.5		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.2	8		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	8.9	10.9		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	12.1	13.7		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	20	17.7		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	31	21.2		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	39.4		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	51.7		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	54		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	57.8		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	62.7		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	67.9		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	73.8		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	83.3		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	95.2		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	8		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	9.5		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	180		umhos/cm
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	23.2		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	16.7		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	11.1		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	31.4		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	98.9		%
McCullough	BKG-06	BRC-BKG-06B-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1240		mg/Kg
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	3.3	3.9		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	6.4	6.8		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	8.8	7.9		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	12.5	9.6		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	21	11.9		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	33	14.1		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	75	21.8		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	150	27.1		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	180	28.6		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	250	31.7		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	425	37.3		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	850	45.7		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	58.5		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	77.8		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	97.9		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Clay	6.8		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	19.3		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	1550		umhos/cm
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	15.5		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	22.2		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	21.3		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.7		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D422	Texture	Silt	15		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	95.8		%
McCullough	BKG-06	BRC-BKG-06B-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1150		mg/Kg
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	3.4	2.7		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	6.6	3.3		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	9	4.9		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	12.9	6.1		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	22	8.3		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	34	9.4		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	75	15		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	150	19.5		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	180	20.8		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	250	23.6		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	425	29		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	850	38.3		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	53		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	73.1		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	91.6		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Clay	3.3		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	20.1		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	406		umhos/cm
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	13.9		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	26.9		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	24		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.5		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D422	Texture	Silt	11.7		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96.7		%
McCullough	BKG-06	BRC-BKG-06B-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	518		mg/Kg
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.1	4.3		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.5	7		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	8.9	8.1		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	12.5	9.7		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	21	12.5		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	33	14.7		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	26.3		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	36.2		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	38.5		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	43.1		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	50.3		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	58.7		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	68.2		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	81.1		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	94.5		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	7		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	12.9		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	76.7		umhos/cm
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	24		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	18.9		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	17.9		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.8		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	19.3		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	98.6		%
McCullough	BKG-06	BRC-BKG-06C-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1370		mg/Kg
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	3.2	3.6		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	6.5	6.2		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	8.7	7.8		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	12.5	10		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	21	13.6		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	32	16.3		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	75	25.4		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	150	31.3		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	180	32.9		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	250	36.5		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	425	43.2		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	850	53.7		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	69.6		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	89.7		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Clay	6.2		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	20		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	886		umhos/cm
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	17.8		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	10.3		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	26.5		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D422	Texture	Silt	19.2		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	95.7		%
McCullough	BKG-06	BRC-BKG-06C-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1340		mg/Kg
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	1.4	1.5		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	3.2	2.6		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	6.4	4.7		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	9.1	6.3		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	12.8	7.3		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	22	8.9		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	34	11		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	75	17.9		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	150	23		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	180	24.5		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	250	27.8		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	425	34.2		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	850	44.7		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	2000	59.3		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	4750	79		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	9500	97.6		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Clay	4.7		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Coarse Sand	19.7		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	SW9050	Texture	Conductivity	151		umhos/cm
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Fine Sand	16.3		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Gravel	21		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Medium Sand	25.1		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D422	Texture	Silt	13.2		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	95.8		%
McCullough	BKG-06	BRC-BKG-06C-8-12	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	522	U	mg/Kg
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.3	4.5		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.1	8.1		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6	12.6		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8	15.3		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	11	17.6		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	18	22.6		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	26	25.7		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	43.3		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	52.5		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	54.7		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	57.7		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	62.4		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	68.5		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	74.2		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	81.8		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	91.2		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	12.6		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	7.6		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1200		umhos/cm
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	19.1		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	18.2		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	11.9		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	30.7		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99		%
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1380		mg/Kg
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	8.9		meq/100g
McCullough	BKG-07	BRC-BKG-07A-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.8		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	3.3	3.8		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	6.3	4.3		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	9	5.7		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	12.6	6.7		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	21	8.6		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	33	10		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	75	17.6		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	150	21.9		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	180	23.4		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	250	26.2		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	425	31.5		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	850	40.5		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	52.8		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	75		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	91.3		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Clay	4.3		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	22.2		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1610		umhos/cm
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	13.9		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	25		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	21.3		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D422	Texture	Silt	13.3		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.5		%
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	8930		mg/Kg
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	14.8		meq/100g
McCullough	BKG-07	BRC-BKG-07A-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	1.8		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	3.3	2.7		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	6.7	3.2		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	9	4.1		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	12.8	5		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	22	6.4		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	34	7.8		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	75	16.1		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	150	21.7		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	180	24		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	250	28.3		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	425	36.5		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	850	48.9		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	64.4		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	84		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	94		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Clay	3.2		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	19.7		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	207		umhos/cm
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	20.4		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	16		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	27.9		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D422	Texture	Silt	12.9		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.3		%
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	519	U	mg/Kg
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	16		meq/100g
McCullough	BKG-07	BRC-BKG-07A-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.3	3.6		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.3	5.8		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9.1	6.8		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	12.7	7.9		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	22	10		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	34	11.6		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	26.6		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	37.7		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	39.5		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	42.3		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	46.4		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	52.7		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	61.6		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	76.3		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	93.8		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	5.8		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	14.7		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	90		umhos/cm
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	19.8		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	23.7		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	15.2		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.3		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	20.8		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	99.1		%
McCullough	BKG-07	BRC-BKG-07B-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1910		mg/Kg
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	1.4	3.6		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	3.3	5.7		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	6.5	7.8		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	8.7	8.9		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	12.3	10.5		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	21	12.1		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	32	14.2		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	75	21.6		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	150	28		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	180	29.7		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	250	33.6		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	425	40.6		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	850	51.1		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	64.6		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	82.3		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	94.7		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Clay	7.8		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	17.7		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	90.2		umhos/cm
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	19		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	17.7		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	24		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D422	Texture	Silt	13.8		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	97.3		%
McCullough	BKG-07	BRC-BKG-07B-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1000		mg/Kg
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	3.2	2.8		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	6.6	3.3		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	9.3	3.8		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	13.1	4.2		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	23	4.7		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	35	6.6		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	75	13.1		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	150	17.4		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	180	19.2		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	250	22.7		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	425	29.9		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	850	41.2		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	55		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	78.5		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	96.8		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Clay	3.3		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	23.5		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	346		umhos/cm
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	16.8		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	21.5		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	25.1		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.8		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D422	Texture	Silt	9.8		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96.2		%
McCullough	BKG-07	BRC-BKG-07B-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	520	U	mg/Kg
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	1.4	3.5		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	3.1	6		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	6.2	9.4		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	8.5	11.3		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	11.8	12.7		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	20	16		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	30	18.9		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75	34.1		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	150	43.6		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	180	45.7		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	250	48.6		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	425	53.1		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	850	59.3		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	2000	66.2		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	4750	77.6		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	9500	91.8		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Clay	9.4		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Coarse Sand	11.3		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	SW9050	Texture	Conductivity	284		umhos/cm
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Fine Sand	19		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Gravel	22.4		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Medium Sand	13.2		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Moisture Content	1.6		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D422	Texture	Silt	24.7		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	99		%
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1730		mg/Kg
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	SW9081	CEC	CEC	8.3		meq/100g
McCullough	BKG-07	BRC-BKG-07C-0-0.5	NORMAL	6/16/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	3.2	3.7		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	6.6	5.2		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	9.1	5.6		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	12.7	6.6		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	22	8		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	34	9.4		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	75	15.2		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	150	20		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	180	21.8		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	250	25.1		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	425	31.1		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	850	40.4		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	2000	53.3		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	4750	74.7		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	9500	93		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Clay	5.2		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Coarse Sand	21.4		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	SW9050	Texture	Conductivity	1300		umhos/cm
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Fine Sand	16		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Gravel	25.3		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Medium Sand	22.1		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.9		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D422	Texture	Silt	10		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.6		%
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	6020		mg/Kg
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	SW9081	CEC	CEC	17		meq/100g
McCullough	BKG-07	BRC-BKG-07C-4-6	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8		none
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	1.4	1.2		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	3.3	2		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	6.7	3		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	9.5	3.5		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	13.1	4		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	23	4.5		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	35	6.1		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	75	12.8		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	150	16.9		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	180	18.6		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	250	21.8		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	425	28.1		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	850	39.3		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	2000	56.6		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	4750	81.6		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	9500	96.4		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Clay	3		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Coarse Sand	25		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	SW9050	Texture	Conductivity	265		umhos/cm
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Fine Sand	15.3		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Gravel	18.4		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Medium Sand	28.5		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D2216	Solids	Moisture Content	4.6		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D422	Texture	Silt	9.8		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	D2216	Solids	Solids, Percent	96.7		%
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1530		mg/Kg
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	SW9081	CEC	CEC	18.9		meq/100g
McCullough	BKG-07	BRC-BKG-07C-9-11	NORMAL	6/16/2005	SW9045	pH	pH (solid)	8.7		none
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	3.1		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.2	3.6		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.7	3.7		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9.2	4.6		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	13	5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	22	5.5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	35	6.5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	13.6		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	17.1		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	18.5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	21.2		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	27.5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	40.5		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	59.4		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	86.9		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	3.7		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	27.5		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	68.2		umhos/cm
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	13.9		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	13.1		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	31.9		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.2		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	9.9		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	99.4		%
McCullough	BKG-08	BRC-BKG-08A-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1660		mg/Kg
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	1.3	6.4		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	3.1	8		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	6.3	10.1		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	8.8	11.2		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	12.1	12.6		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	21	14.1		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	32	16.2		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	75	22.1		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	150	27.5		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	180	29.8		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	250	34		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	425	42.2		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	850	54.9		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	69.7		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	88.1		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	97.8		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Clay	10.1		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	18.3		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	86.3		umhos/cm
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	20.2		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	11.9		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	27.5		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	3.9		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D422	Texture	Silt	11.9		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	95.8		%
McCullough	BKG-08	BRC-BKG-08A-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	602		mg/Kg
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	1.3	5.6		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	3.1	7.2		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	6.1	9.2		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	8.8	10.7		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	12.1	12.1		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	21	14.1		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	32	16.5		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	75	23.2		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	150	27.4		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	180	28.9		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	250	31.8		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	425	37.2		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	850	45.4		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	54.6		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	78.5		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	96.1		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Clay	9.2		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	23.9		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	638		umhos/cm
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	14		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	21.5		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	17.4		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.5		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D422	Texture	Silt	14		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96.2		%
McCullough	BKG-08	BRC-BKG-08A-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	901		mg/Kg
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	3.7		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.3	4.8		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.5	4.9		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9	5.3		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	12.9	5.8		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	22	6.3		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	35	7.3		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	12.5		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	17.5		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	19.8		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	24.7		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	35.4		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	52.1		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	68.5		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	85.4		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	98.3		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	4.9		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	16.9		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	58.3		umhos/cm
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	22.9		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	14.6		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	33.1		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.5		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	7.6		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	98.5		%
McCullough	BKG-08	BRC-BKG-08B-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	925		mg/Kg
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	1.3	7		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	3.2	8.8		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	6.2	10.3		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	8.5	11.4		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	12.1	12.4		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	21	14		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	32	15.5		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	75	20.7		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	150	25.4		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	180	27.3		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	250	30.7		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	425	37.1		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	850	47.1		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	58		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	77.3		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	96.2		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Clay	10.3		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	19.2		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	163		umhos/cm
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	16.3		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	22.7		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	21		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	6.8		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D422	Texture	Silt	10.4		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	94.5		%
McCullough	BKG-08	BRC-BKG-08B-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	917		mg/Kg
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	1.3	6.9		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	3	9.1		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	6.1	12.5		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	8.4	13.5		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	11.5	17.1		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	19	20.1		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	29	23.2		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	75	29.1		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	150	35.4		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	180	37.8		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	250	42.3		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	425	50.3		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	850	62		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	74.4		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	91.4		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	98.8		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Clay	12.5		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	17		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	686		umhos/cm
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	21.2		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	8.6		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	24.1		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.8		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D422	Texture	Silt	16.6		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96		%
McCullough	BKG-08	BRC-BKG-08B-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	587		mg/Kg
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	1.4	2.6		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	3.2	2.8		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	6.6	3.2		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9	3.6		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	13.2	3.6		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	23	4.1		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	35	5.5		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75	12.2		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	150	17.3		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	180	19.6		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	250	24.3		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	425	34.5		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	850	50.9		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	2000	68.8		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	4750	87.2		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	9500	95.3		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Clay	3.2		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Coarse Sand	18.4		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	SW9050	Texture	Conductivity	49.3		umhos/cm
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Fine Sand	22.3		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Gravel	12.8		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Medium Sand	34.3		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D2216	Solids	Moisture Content	1.5		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D422	Texture	Silt	9		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	98.8		%
McCullough	BKG-08	BRC-BKG-08C-0-0.5	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1470		mg/Kg
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	1.4	5		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	3.2	6.2		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	6.3	7.2		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	9	8.3		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	12.6	9.4		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	22	10.4		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	33	12.6		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	75	19.3		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	150	23.5		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	180	25.2		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	250	28.5		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	425	34.8		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	850	45.3		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	2000	58.2		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	4750	79.6		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	9500	97.9		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Clay	7.2		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Coarse Sand	21.5		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	SW9050	Texture	Conductivity	83.9		umhos/cm

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Fine Sand	15.5		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Gravel	20.4		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Medium Sand	23.3		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D2216	Solids	Moisture Content	5.6		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D422	Texture	Silt	12		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	95		%
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	706		mg/Kg
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	663		mg/Kg
McCullough	BKG-08	BRC-BKG-08C-4-6	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	73400		mg/Kg
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	1.4	3.8		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	3.2	5.9		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	6.5	8		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	8.9	9		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	12.3	11		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	21	13		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	32	15.1		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	75	23.9		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	150	28.9		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	180	31.1		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	250	35.2		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	425	42.5		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	850	53.2		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	2000	66.5		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	4750	87.4		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	9500	99.4		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Clay	8		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Coarse Sand	20.9		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	357		umhos/cm
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	SW9050	Texture	Conductivity	359		umhos/cm
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Fine Sand	18.6		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Gravel	12.6		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Medium Sand	24		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D2216	Solids	Moisture Content	4.8		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D422	Texture	Silt	15.8		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	D2216	Solids	Solids, Percent	96.1		%
McCullough	BKG-08	BRC-BKG-08C-9-11	NORMAL	6/15/2005	LYDKHN	TOC	TOC by Lloyd Kahn	937		mg/Kg
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	2.4		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.3	2.9		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.7	3.9		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9	4.4		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	12.9	4.9		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	22	6.3		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	35	7.3		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	17.1		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	24		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	26		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	30.5		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	37.8		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	47.3		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	59.2		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	81.6		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	98		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	15.1	J	meq/100g
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	3.9		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	22.4		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	872		umhos/cm
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.7		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	18.4		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	21.4		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	1.7		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	13.3		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	99.1		%
McCullough	BKG-09	BRC-BKG-09A-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	16000		mg/Kg
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	4.3		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	3.1	5.6		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	6.5	7.7		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	9	8.9		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	12.7	10		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	22	11.8		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	33	14.6		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	75	23		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	150	31.8		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	180	33.8		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	250	37.5		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	425	43.4		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	850	51.3		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	61.1		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	77.7		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	92		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	14.6	J	meq/100g
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Clay	7.7		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	16.6		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	577		umhos/cm
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.3		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	22.3		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	17.8		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.9		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D422	Texture	Silt	15.3		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	95.4		%
McCullough	BKG-09	BRC-BKG-09A-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2640		mg/Kg
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	1.3	6		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	3.1	8.6		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	6.2	12.3		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	8.5	13.8		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	11.8	15.4		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	20	17.4		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	31	19.5		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	75	27.4		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	150	34.5		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	180	36.5		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	250	40.6		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	425	48		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	850	59.5		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	74		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	88.1		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	97.1		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	7.9	J	meq/100g
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Clay	12.3		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	14.1		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	265		umhos/cm
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	20.5		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	11.9		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	26.1		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.9		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.5		none
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D422	Texture	Silt	15.2		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	95.4		%
McCullough	BKG-09	BRC-BKG-09A-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1850		mg/Kg
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.3	2		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.8	2.5		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.6	3		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.2	3.5		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	23	4.1		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	36	4.6		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	11.7		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	18.3		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	20.2		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	23.9		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	30		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	39.4		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	51.8		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	73.4		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	95.5		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	13.3	J	meq/100g
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	2.5		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	21.6		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	279		umhos/cm
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	18.3		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	26.6		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	21.8		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	1.4		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.1		none
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	9.2		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	99.6		%
McCullough	BKG-09	BRC-BKG-09B-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	12300		mg/Kg
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	3.2		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	3.2	4.8		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	6.3	6.7		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	9.1	8.2		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	12.5	9.6		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	21	11.6		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	33	13.5		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	75	24.1		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	150	34		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	180	36.5		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	250	41.3		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	425	49		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	850	59.5		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	71.8		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	88.7		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	97.4		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	11.3		meq/100g
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Clay	6.7		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	16.9		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	650		umhos/cm
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	24.9		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	11.3		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	22.8		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	6.8		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D422	Texture	Silt	17.4		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	94.8		%
McCullough	BKG-09	BRC-BKG-09B-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2520		mg/Kg
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	1.3	4.6		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	3.2	7.7		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	6.2	10.5		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	8.4	12		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	11.9	13.5		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	20	16		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	31	17.9		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	75	27.5		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	150	33.9		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	180	35.5		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	250	38.9		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	425	44.6		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	850	53		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	63.6		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	82.6		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	96.1		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	9.2		meq/100g
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Clay	10.5		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	19		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	197		umhos/cm
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	17.1		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	17.4		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	19		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	5.5		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D422	Texture	Silt	16.9		%
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	81.1		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09B-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1220		mg/Kg
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	1.4	1.2		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	3.4	1.8		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	6.7	2.7		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9.2	3.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	13.1	4.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	22	5.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	35	7		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75	17.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	150	25.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	180	27.8		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	250	32.8		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	425	41.8		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	850	55.4		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	2000	69.9		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	4750	88.3		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	9500	98.6		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	SW9081	CEC	CEC	14.9		meq/100g
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Clay	2.7		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Coarse Sand	18.4		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	SW9050	Texture	Conductivity	61.3		umhos/cm
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Fine Sand	24.2		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Gravel	11.7		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Medium Sand	28		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Moisture Content	2.5		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D422	Texture	Silt	14.9		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	99.3		%
McCullough	BKG-09	BRC-BKG-09C-0-0.5	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3250		mg/Kg
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	1.4	1.3		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	3.2	2		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	6.7	3		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	9.2	4.1		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	13.1	4.6		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	22	6.2		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	35	7.2		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	75	17.5		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	150	26.4		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	180	28.9		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	250	34.5		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	425	44.7		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	850	59.9		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	2000	76.4		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	4750	92.3		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	SW9081	CEC	CEC	16.5		meq/100g
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Clay	3		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Coarse Sand	15.9		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	SW9050	Texture	Conductivity	59.2		umhos/cm
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Fine Sand	27.2		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Gravel	7.7		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Medium Sand	31.7		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D2216	Solids	Moisture Content	2.5		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	SW9045	pH	pH (solid)	9		none
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D422	Texture	Silt	14.5		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	D2216	Solids	Solids, Percent	99.2		%
McCullough	BKG-09	BRC-BCG-09C-0-0.5	FD	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3440		mg/Kg
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	1.4	5.1		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	3.1	7.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	6.3	11.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	8.6	13.2		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	12.3	15.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	21	18.6		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	32	22.1		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	75	32.4		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	150	39.3		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	180	40.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	250	44.4		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	425	49.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	850	58.1		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	2000	69.5		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	4750	88.9		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	9500	96.8		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	SW9081	CEC	CEC	19.5		meq/100g
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Clay	11.9		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Coarse Sand	19.4		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	SW9050	Texture	Conductivity	155		umhos/cm
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Fine Sand	17.5		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Gravel	11.1		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Medium Sand	19.7		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D2216	Solids	Moisture Content	8.1		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D422	Texture	Silt	20.4		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	94.1		%
McCullough	BKG-09	BRC-BKG-09C-4-6	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1390		mg/Kg
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	3.2	3.6		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	6.5	4.2		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	9.4	4.8		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	13.2	6.1		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	23	6.1		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	36	7.4		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	75	17.7		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	150	20.9		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	180	21.8		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	250	24.1		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	425	29.4		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	850	43.5		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	2000	69.5		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	4750	96.7		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	50000	100		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	SW9081	CEC	CEC	18.2		meq/100g
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Clay	4.2		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Coarse Sand	27.2		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	SW9050	Texture	Conductivity	89.5		umhos/cm
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Fine Sand	11.7		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Gravel	3.3		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Medium Sand	40.1		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D2216	Solids	Moisture Content	6.1		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D422	Texture	Silt	13.5		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	D2216	Solids	Solids, Percent	95.9		%
McCullough	BKG-09	BRC-BKG-09C-9-11	NORMAL	6/14/2005	LYDKHN	TOC	TOC by Lloyd Kahn	798		mg/Kg
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.4		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.2	2.3		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.6	3.2		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.3	4.1		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	12.9	4.6		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	22	5.5		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	34	6.9		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	14.2		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	22		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	24.8		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	29.8		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	38.4		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	50.1		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	64		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	83.3		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	97.6		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	10.3		meq/100g
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	3.2		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	19.3		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	77.4		umhos/cm
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	24.1		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	16.7		%

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	25.6		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.3		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	11		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.8		%
McCullough	BKG-11	BRC-BKG-11A-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2060		mg/Kg
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	3.2	4		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	6.3	6.3		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	9.1	8		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	12.5	9.7		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	21	12		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	33	14.3		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	75	22.8		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	150	29.3		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	180	31.7		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	250	36.1		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	425	43.8		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	850	54.7		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	68.3		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	84.7		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	94.7		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	12.5		meq/100g
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Clay	6.3		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	16.5		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	921		umhos/cm
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	21		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	15.3		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	24.4		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5.5		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D422	Texture	Silt	16.6		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	94.5		%
McCullough	BKG-11	BRC-BKG-11A-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2260		mg/Kg

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	1.8		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	3.3	3		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	6.6	3.6		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	9.1	4.7		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	13	5.3		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	22	7.1		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	35	8.3		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	75	16.1		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	150	22		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	180	24.2		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	250	28.1		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	425	35.3		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	850	45.8		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	59.9		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	79.8		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	94.3		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	14.8		meq/100g
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Clay	3.6		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	19.8		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	1480		umhos/cm
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	19.2		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	20.2		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	24.6		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	6.2		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D422	Texture	Silt	12.5		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	94.3		%
McCullough	BKG-11	BRC-BKG-11A-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1360		mg/Kg
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.4	2.2		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.6	2.7		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.1	3.2		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.1	3.2		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	23	4.3		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	35	5.9		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	12		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	19.8		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	22.8		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	28.3		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	38.4		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	52		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	67		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	87.7		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	12		meq/100g
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.7		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.7		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	64.7		umhos/cm
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	26.4		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	12.3		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	28.5		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.4		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.9		none
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	9.3		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	99		%
McCullough	BKG-11	BRC-BKG-11B-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1240		mg/Kg
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	3.5		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	3.1	4.6		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	6.4	7.6		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	8.7	9.3		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	12.4	10.5		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	21	14		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	32	16.3		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	75	25		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	150	32.3		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	180	35.1		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	250	40.1		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	425	49.1		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	850	61.7		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	77.4		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	95.2		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	12		meq/100g
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Clay	7.6		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	17.8		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	198		umhos/cm
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	24.1		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	4.8		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	28.3		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	6.6		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.6		none
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D422	Texture	Silt	17.4		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	94.1		%
McCullough	BKG-11	BRC-BKG-11B-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1300		mg/Kg
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	2.3		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	3.2	3.3		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	6.5	5		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	8.9	5.6		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	12.9	6.8		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	22	9		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	34	11.3		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	75	20.7		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	150	27.5		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	180	30		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	250	34.5		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	425	42.6		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	850	54.4		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	69.5		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	87.6		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	98.9		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	8.2		meq/100g
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Clay	5		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	18.1		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	881		umhos/cm
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	21.9		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	12.4		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	26.8		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5.2		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D422	Texture	Silt	15.7		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.3		%
McCullough	BKG-11	BRC-BKG-11B-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	4610		mg/Kg
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.6		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.2	2		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.5	2.5		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.3	3		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.2	3		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	23	4.1		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	36	5.1		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	14.1		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	23.1		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	26.1		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	31		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	39.4		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	51.2		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	65.3		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	83.5		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	94.9		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	10		meq/100g
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.5		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	18.2		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	71.2		umhos/cm
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	25.3		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	16.5		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	26		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1.4		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.8		none
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	11.6		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	98.8		%
McCullough	BKG-11	BRC-BKG-11C-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1490		mg/Kg
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	2.2		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	3.3	2.1		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	6.4	3.2		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	9.3	3.7		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	13.1	4.2		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	22	5.3		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	35	7		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	75	13.4		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	150	19.3		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	180	21.5		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	250	25.4		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	425	32.6		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	850	43		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	57.6		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	79.6		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	95.3		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	12.1		meq/100g
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Clay	3.2		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	21.9		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	967		umhos/cm
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	19.2		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	20.4		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	25		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	6.9		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.3		none
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.3		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	94.8		%
McCullough	BKG-11	BRC-BKG-11C-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2020		mg/Kg
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	2.2		% passing

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Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	3.4	2.6		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	6.7	4.3		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	9.1	4.8		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	13	5.3		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	22	7.5		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	34	9.1		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	75	15.5		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	150	21.8		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	180	24		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	250	28		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	425	35.3		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	850	45.9		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	59.4		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	77.3		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	91.4		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	9.1		meq/100g
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Clay	4.3		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	17.9		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	1130		umhos/cm
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	19.8		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	22.7		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	24.1		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5.5		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.2		none
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D422	Texture	Silt	11.3		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.6		%
McCullough	BKG-11	BRC-BKG-11C-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	3580		mg/Kg
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.1		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.2	1.6		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.6	2.1		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9	2.5		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.1	2.9		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	22	3.8		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	35	6.4		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	18.5		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	31.1		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	33.9		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	38.4		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	46		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	59.5		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	72.5		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	82.8		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	93.1		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	7.3		meq/100g
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.1		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	10.3		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	77.7		umhos/cm
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	27.6		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	17.2		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	26.5		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	0.8		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	16.4		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	99.3		%
River	BKG-12	BRC-BKG-12A-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2310		mg/Kg
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	2.1		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	3.2	3.1		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	6.3	4		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	9.1	4.9		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	12.7	5.8		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	22	6.7		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	34	8		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	75	14.6		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	150	20.1		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	180	21.7		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	250	25.1		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	425	31.2		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	850	41.5		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	57.2		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	80.2		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	95		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	6.2		meq/100g
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Clay	4		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	23		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	146		umhos/cm
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	16.7		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	19.8		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	26		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	4.4		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.8		none
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.6		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.4		%
River	BKG-12	BRC-BKG-12A-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	560		mg/Kg
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	4.9		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	3.1	7.7		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	6.2	11		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	8.4	12.4		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	11.7	13.7		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	20	16.5		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	30	18.3		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	75	25.9		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	150	32.6		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	180	34.6		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	250	39.1		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	425	47.3		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	850	59.2		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	73.7		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	89.6		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	97.6		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	6.8		meq/100g

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Clay	11		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	15.9		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	664		umhos/cm
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	21.4		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	10.4		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	26.4		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	4		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.5		none
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D422	Texture	Silt	14.9		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.2		%
River	BKG-12	BRC-BKG-12A-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	740		mg/Kg
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.7		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.3	1.8		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	6.4	2.3		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.2	3.3		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13	3.7		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	22	5.1		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	34	7.4		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	21.5		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	34.4		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	37.1		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	41.3		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	48		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	59.2		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	73.1		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	86.9		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	98.6		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	10		meq/100g
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	2.3		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	13.8		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	73.3		umhos/cm
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	26.5		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	13.1		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	25.1		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	0.9		%

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.4		none
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	19.2		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	99.1		%
River	BKG-12	BRC-BKG-12B-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	2720		mg/Kg
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	1.4	2		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	3.3	2.7		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	6.8	3.5		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	9.4	4		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	13.2	4.4		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	22	5.7		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	35	6.5		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	75	13.8		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	150	19.2		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	180	20.8		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	250	24.5		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	425	31.5		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	850	41		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	55.7		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	76.1		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	91.8		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	8.8		meq/100g
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Clay	3.5		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	20.4		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	109		umhos/cm
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	17.6		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	23.9		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	24.2		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	9		none
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.3		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96		%
River	BKG-12	BRC-BKG-12B-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	639		mg/Kg
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	1.4	4		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	3.2	6.1		% passing

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BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	6.2	7.9		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	8.9	9.3		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	12.4	10.7		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	21	13		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	32	14.3		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	75	20.3		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	150	25.7		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	180	27.4		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	250	31.6		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	425	39.6		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	850	50.8		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	65.2		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	80.7		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	93.6		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	10.8		meq/100g
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Clay	7.9		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	15.5		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	591		umhos/cm
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	19.3		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	19.3		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	25.6		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	5.6		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.3		none
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D422	Texture	Silt	12.4		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.8		%
River	BKG-12	BRC-BKG-12B-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1010		mg/Kg
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	1.4	1.3		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	3.4	1.7		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	7	1.7		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9.5	1.7		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	13.5	2.2		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	23	2.6		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37	3.6		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75	13.4		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	150	24.6		% passing

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	180	27.6		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	250	33.4		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	425	41.7		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	850	48.6		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	2000	58.9		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	4750	75.6		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	9500	94.4		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	SW9081	CEC	CEC	8.2		meq/100g
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Clay	1.7		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Coarse Sand	16.7		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	SW9050	Texture	Conductivity	67.7		umhos/cm
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Fine Sand	28.2		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Gravel	24.4		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Medium Sand	17.2		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Moisture Content	1		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.8		none
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D422	Texture	Silt	11.8		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	99.2		%
River	BKG-12	BRC-BKG-12C-0-0.5	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1460		mg/Kg
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	1.3	2.9		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	3.2	3.4		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	6.6	3.9		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	9.1	4.8		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	12.8	5.3		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	22	6.3		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	34	7.7		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	75	14		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	150	19.4		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	180	21.5		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	250	25.6		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	425	34.4		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	850	51.1		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	2000	69.9		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	4750	85.4		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	9500	96.1		% passing

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	SW9081	CEC	CEC	8.2		meq/100g
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Clay	3.9		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Coarse Sand	15.5		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	SW9050	Texture	Conductivity	121		umhos/cm
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Fine Sand	20.4		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Gravel	14.6		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Medium Sand	35.4		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D2216	Solids	Moisture Content	4.7		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	SW9045	pH	pH (solid)	9		none
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D422	Texture	Silt	10.2		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	95.6		%
River	BKG-12	BRC-BKG-12C-4-6	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	1070		mg/Kg
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	1.3	3.8		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	3.1	5.2		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	6.4	7.1		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	8.8	8.1		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	12.4	9		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	21	10.9		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	33	12.4		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	75	18.9		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	150	24.1		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	180	26.1		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	250	29.8		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	425	36.9		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	850	49.2		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	2000	65.3		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	4750	84.4		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	9500	97.1		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	19000	100		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	25000	100		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	37500	100		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	50000	100		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Particle Size	75000	100		% passing
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	SW9081	CEC	CEC	9.9		meq/100g
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Clay	7.1		%

TABLE C-4
BACKGROUND SOIL GEOTECHNICAL DATA SUMMARY

Soil Origin	Sampling Location	Sample ID	Sample Type	Sample Date	Analytical Method [1]	Test Group	Analyte	Result	Qualifier	Unit
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Coarse Sand	19.1		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	SW9050	Texture	Conductivity	663		umhos/cm
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Fine Sand	18.1		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Gravel	15.6		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Medium Sand	28.4		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D2216	Solids	Moisture Content	3.9		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	SW9045	pH	pH (solid)	8.2		none
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	SM2520	Salinity	Salinity	2	U	none
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D422	Texture	Silt	11.7		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	D2216	Solids	Solids, Percent	96.4		%
River	BKG-12	BRC-BKG-12C-9-11	NORMAL	6/17/2005	LYDKHN	TOC	TOC by Lloyd Kahn	580		mg/Kg

Notes:

meq/100g	Milliequivalent per 100 grams
mg/kg	Milligram per kilogram
umhos/cm	Micromhos per centimeter
ASTM	American Society for Testing and Materials
CEC	CEC
TOC	Total organic carbon
U	Analyte is undetected at the reported quantitation limit.

1 Analytical methods include the following:

D422	ASTM D422-63 (2002). "Standard Test Method for Particle-Size Analysis of Soils."
D2216	ASTM D2216 "Standard Test Methods for Laboratory Determinaiton of Water (Moisture) Content of Soil and Rock by Mass."
SM2520	Standard Methods for the Examination of Water and Wastewater. Method 2520. "Salinity."
SW9050	EPA SW-846 Method 9050. "Specific Conductance."
SW9045	EPA SW-8464 Method 9045. "Solid and Waste pH."
SW9081	EPA SW-846 Method 9081. "CEC of Soils."

APPENDIX D

Includes on compact disc:

Data Validation Summary Report for BRC/TIMET Background Soil Data
Data Validation Memorandum for Environ Background Soil Data

APPENDIX D-1

DATA VALIDATION SUMMARY REPORT FOR BRC/TIMET SOIL BACKGROUND DATA

DATA VALIDATION SUMMARY REPORT
FOR
BACKGROUND SOIL DATA

BMI Common Areas and Complex Vicinity
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Henderson, Nevada

Submitted to

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A BACKGROUND SOIL ANALYTICAL DATABASE (contained on compact disk)

ATTACHMENT

Attachment

A LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS

ACRONYMS AND ABBREVIATIONS

mg/kg	Milligram per kilogram
mg/L	Milligram per liter
pCi/g	PicoCurie per gram
pCi/L	PicoCurie per liter
µg/L	Microgram per liter
ASTM	American Society for Testing and Materials
BMI	BMI Common Areas and Complex
CEC	Cation exchange capacity
CVAA	Cold vapor atomic absorption
DOE	U.S. Department of Energy
DVSR	Data validation summary report
EDD	Electronic data deliverable
EML	Environmental Monitoring Laboratory
EPA	U.S. Environmental Protection Agency
HASL	Health and Safety Laboratory
ICP	Inductively coupled plasma
ICP/MS	Inductively coupled plasma/mass spectrometer
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
MD	Matrix duplicate
MDC	Maximum detectable concentration
MDL	Method detection limit
MS	Matrix spike
MSD	Matrix spike duplicate
NDEP	Nevada Division of Environmental Protection
PARCCS	Precision, accuracy, representativeness, completeness, comparability, and sensitivity
pdf	Portable document format
PQL	Practical quantitation limit
QA	Quality assurance
QC	Quality control

ACRONYMS AND ABBREVIATIONS (Continued)

RPD	Relative percent difference
SDG	Sample delivery group
SQL	Sample quantitation limit
STL	Severn Trent Laboratories, Inc.
Tetra Tech	Tetra Tech EM Inc.
TIMET	Titanium Metals Corporation, Inc.

1.0 INTRODUCTION

Tetra Tech EM Inc. (Tetra Tech) prepared this data validation summary report (DVSR) to assess the validity (based on data validation) and usability (based on project objectives) of background soil analytical data collected from June 14 through 17, 2005 in the vicinity of the BMI Common Areas and Complex (BMI) and the Titanium Metals Corporation, Inc. (TIMET) facility in Henderson, Nevada. The background soil sampling program includes sampling and data collection from soil borings located in the vicinity of the BMI and TIMET areas, and correspond to the proposed background sampling locations shown on Figure 1. Specifications for sampling and analysis and the required quality control and quality assurance (QA/QC) measures are detailed in the "Background Soil Sampling Workplan" (Environmental Resources Management and Tetra Tech 2005). A total of 104 soil field samples were collected; plus three field split samples and three equipment rinsate blanks. Table 1 lists all samples collected at the boring locations and the chemical analysis conducted on each. A sample consists of all fractions of a medium (soil) from a given location and depth interval during a single event (background sampling event).

1.1 PURPOSE AND OBJECTIVES

The purpose of this event is to collect data for metals, radionuclides, and anions in background soils that are comparable to site soils. These data will be used in future site-to-background statistical comparisons to be conducted during future site investigations. At present, insufficient background data exist to evaluate whether concentrations of site-related chemicals detected in site samples statistically exceed the concentrations of these chemicals in background. The purpose of this DVSR is to summarize the validation and usability for chemical background soil data collected during this event for establishing background concentrations.

The background data collection event had five objectives as follows:

- Produce validated data for analytes not included in the existing background dataset collected by Environ for the City of Henderson as part of a risk assessment conducted in 2003 (Environ 2003)
- Produce validated data for several depth intervals (0 to 0.5, 4 to 6, and 9 to 11 feet below ground surface)
- Produce validated data for a broader range of soil units applicable to the site, in addition to the soil units currently represented by the Environ data
- Produce validated data to form a larger sample population to support statistical comparisons of on-site (specifically, BRC and TIMET properties) and background datasets
- Produce validated data to form more than one background dataset, if required, based on statistical comparisons of data from different geologic settings

The first step to achieving these objectives is to collect representative samples from areas identified as being background locations and from the applicable soil units and intervals. The second step is to conduct the most appropriate analytical tests and validate the resulting data. The third step is to evaluate summary and comparative statistics to various parts of the cumulative background dataset. Finally, the last step is to use the validated dataset to conduct comparisons to site-related soil concentrations. This DVSR documents the sample analysis and validation of the dataset (second step above). The discussion of sample collection, statistics, and application of the background dataset are discussed in the main report.

Severn Trent Laboratories, Inc. (STL) in St. Louis, Missouri, and Burlington, Vermont conducted the analyses for background soil samples collected during this event. After initial validation procedures, statistical evaluations were conducted (as discussed in the main report). However, summary and comparative statistics initially revealed that results for radium isotopes (224, 226, and 228) were questionable. In addition, an evaluation of interelement concentrations between parent and daughter isotopes in the decay chains revealed inconsistencies. It was determined that radium-224 could be reported from the gamma spectroscopy assuming equilibrium with lead-212. This re-calculation of radium-224 results produced a better correlation and was deemed acceptable by the project team for inclusion in the dataset. As such, the original radium-224 results were replaced by the radium-224 results recalculated from the gamma spectroscopic analysis of lead-212.

Radium-226 and -228 were determined to be unusable as originally reported by STL in St. Louis, Missouri. As such, all 107 soil samples (104 plus 3 field splits) were sent to STL in Richland, Washington for re-preparation and re-analysis of isotopic radium. While there were quality control (QC) issues related to the second analysis of radium-228 (as discussed later in the body of this DVSR), the results for both radium-226 and -228 were significantly more consistent with the interelement correlations. As such, the initial radium-226 and -228 results were eliminated from the dataset presented as Appendix A to this DVSR and replaced by the second set of data. Appropriate validation qualifiers were applied to the second set of data as discussed in this DVSR. STL provided a letter of explanation, dated March 7, 2006, regarding the differences between radium results reported by their two laboratories. In summary, the letter states that the initial results were quantified using gravimetric measurement of a chemical carrier (barium); while the second results were quantified using a radiometric measurement of an isotopic tracer (barium-133). The letter states that STL's technical opinion is that "the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer" (STL 2006). The complete letter is included as Attachment A to this DVSR.

All data from the three STL laboratories were delivered in full data packages (in portable document format [pdf]) and accompanied by electronic data deliverables (EDD). Hardcopy data deliverables from STL were full data packages including sample results, QC sample summary tables, and all supporting sample preparation and analytical raw data. Each data deliverable constitutes a sample delivery group (SDG). The SDGs include: F5F160308, F5F170373, F5F180132, and F5F210233. EDDs received from the laboratory for each SDG were loaded into a Microsoft Access® database and used for reporting. STL reported sample results in the EDD, along with applicable laboratory qualifiers.

The following types of analyses were conducted on soil samples collected during this event and analyzed by STL:

- Total metals by inductively coupled plasma (ICP) by U.S. Environmental Protection Agency (EPA) Method 6010B, ICP/mass spectrometer (MS) by EPA Method 6020, cold vapor atomic absorption (CVAA) for mercury by EPA Method 7471A (EPA 1996), and colorimetric analysis of hexavalent chromium by EPA Method 7196A (EPA 1996).

- Inorganic analytes including anions by ion chromatography using EPA Method 9056A (EPA 1996), pH by electrode using EPA Method 9045C (EPA 1996), and cation exchange capacity (CEC) by EPA Method 9081 (EPA 1996)

- Physical parameters including percent moisture by gravimetric determination by EPA Method 160.3 (EPA 1983)

- Radionuclides, including gamma emitters by EPA Method 901.1 modified (EPA 1980), isotopic radium by EPA Methods 9315 and 9320 (EPA 1996), and isotopic thorium and uranium by alpha spectroscopy using Environmental Measurements Laboratory (EML) Procedures Manual A-01-R modified (also known as Department of Energy [DOE] Health and Safety Laboratory [HASL]-300) (DOE 1997a, EPA 1996, and EPA 1980)

The background study workplan listed method numbers that were different than those reported by STL. The differences and affects are as follows:

- The workplan listed EPA Method 300.0 for anions (EPA 1983); while STL reported from EPA Method 9056A (EPA 1996). The methods are the same and do not affect data quality in any way.

- The workplan listed American Society for Testing and Materials (ASTM) Method D2216 (ASTM 1998) for the determination of percent moisture; while STL reported from EPA Method 160.3 (EPA 1983). The methods are the same and do not affect data quality in any way.

Quantitation limits are critical to the proper evaluation of method sensitivity and non-detect data. Three types of quantitation limits were evaluated for stable chemistries as follows:

- Method detection limit (MDL) – This limit was established by the laboratory according to the requirement in 40 CFR 136, Appendix B, and represents the minimum concentration of a substance that can be measured and reported with 99 percent confidence (equivalent to a 3-sigma limit) that the analyte concentration is greater than zero. MDLs are established using matrices with little or no interfering species using reagent matrices and are considered the lowest possible reporting limit. Often, the MDL is represented as the instrument detection limit. Because these limits do not reflect sample-specific characteristics and preparation volumes/masses, MDLs were not reported in the hardcopy or EDDs for individual samples. However, MDLs can be indirectly obtained from the limits reported for method blanks, as method blanks were reported to the MDL.

- Sample quantitation limit (SQL) – The SQL is defined as the MDL adjusted to reflect sample-specific actions, such as dilution or aliquot sizes, and takes into account sample characteristics, sample preparation, and analytical adjustments. It represents the sample-specific detection limit and all non-detected results are reported to this level in the hardcopy and EDD formats.

- Practical quantitation limit (PQL) – This limit is defined as the lowest level at which the entire analytical system gives a recognizable signal and acceptable calibration point for the analyte, and includes the predicted effect of sample matrices with typical interfering species. The PQL is the lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy during routine laboratory operating conditions. PQLs are used to estimate or evaluate the minimum concentration at which the laboratory can be expected to reliably measure a specific chemical contaminant during day-to-day analyses of different sample matrices. Detected results greater than the SQL, but less than the PQL were qualified by the laboratory as estimated. Further qualification based on this scenario is discussed in Section 2.1.7.

For radionuclides, the laboratory reported the minimum detectable concentration (MDC) (also known as minimum detectable activity) as the "reporting limit." The MDC for radionuclides is the lowest level of activity in a given sample that is statistically distinguishable from a sample with no activity, at the 2-sigma confidence interval (equivalent to a 95 percent confidence interval) (EPA 2004a). The MDCs for radionuclide analysis are determined by a mathematical formula that takes into account sample volume, chemical recovery, instrument detection efficiency and background, and sample counting duration. The MDC, therefore, is equivalent to the SQL for radiochemical analytes. For radiochemical analysis, no PQL is established, as all results are reported to the sample-specific MDC. In addition, the 2-sigma rad error is reported for each analyte in each sample.

1.2 VALIDATION PROCESS

Both full and partial validations were conducted on the analytical data collected during this event. Table 2 lists the review items associated with each of the two levels of validation. Table 1 indicates the samples for which full validation was conducted (10 percent full validation as specified in the workplan). Full validation was conducted on 902 records out of 8,773 total field result records in the database (results for

11 samples were fully validated with 82 records per sample). (See Section 2.2.4 for a more detailed accounting of the database records.) A description of each review item, including instances when results did not meet the acceptance criteria, is provided in Section 2.0

Stable chemistry sample results (metals and anions) were validated in accordance with the following EPA guidance documents: "U.S. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA 2004b) and "Region 9 Superfund Data Evaluation/Validation Guidance" (EPA 2001).

EPA has not standardized the validation of radionuclide data, so the reviewer relied on professional judgment and other sources for qualification of data. Radionuclide data validation was conducted using several documents; including the U.S. EPA document "Multi-Agency Radiological Laboratory Analytical Protocols Manual (MARLAP)" (EPA 2004a), the U.S. Department of Energy (DOE) reference document, "Evaluation of Radiochemical Data Usability" (DOE 1997b) as well as QC requirements and criteria summarized in the applicable method.

A Tetra Tech project chemist conducted the data validation and review. Qualifications of the project chemist were submitted by Tetra Tech to Nevada Division of Environmental Protection (NDEP) as part of the project staff submittal (Tetra Tech 2004). Based on data validation and review, data qualifiers were placed in the electronic database to signify whether the data were acceptable, acceptable with qualification, or rejected. Where applicable, an indication of result bias is presented. In addition, for every data validation qualifier, a secondary comment code was entered to indicate the reason for qualification. Table 3 provides the definitions for the data validation qualifiers and comment codes used in the database. Validation qualifiers and definitions are based on those used by EPA in the current validation guidelines (EPA 2004b).

The laboratory also submitted a detailed case narrative with each data package listing any QC criteria that were not met or any other issue that might affect data quality (for example initial or continuing calibration problems). In addition to the criteria listed above, each laboratory case narrative was thoroughly reviewed. Results were qualified for any issues that affected data quality listed in the laboratory case narrative.

1.3 REPORT ORGANIZATION

The DVSR includes three sections. Section 1.0 is the introduction. Section 2.0 summarizes data validation and usability for data collected during this event. Section 3.0 provides general conclusions

about the usability of the data set. The references, tables, and figures follow the conclusions at the end of this document.

Table 1 provides a summary of all sampling locations from which soil data were obtained for this event. Table 1 also includes relevant information about the sampling dates, matrices, analytical suite, and level of validation. A map showing sampling locations for this event are presented on Figure 1.

2.0 DATA VALIDATION SUMMARY

This section describes the data validation findings and usability with regard to the project-specific objectives. Section 2.1 summarizes the data validation findings, and Section 2.2 summarizes the evaluation of the following quality indicator parameters: precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS).

2.1 DATA VALIDATION FINDINGS

This section summarizes all findings based on the validation process. Each section discusses the findings and their effects, if any, on data quality.

2.1.1 Holding Times

Holding time refers to the period of time between sample collection and the preparation and/or analysis of the sample. Sample results were reviewed for compliance with the method-prescribed preparation and analysis holding times, where available. Holding times for aqueous matrices (in this event, only the equipment rinsate blanks are aqueous) are based on those listed in EPA documents, "Test Methods for Evaluating Solid Waste" (EPA 1996) and "Method for Chemical Analysis of Water and Waste" (EPA 1983). Soil sample holding times are not specified for all methods in the reference given above. As such, professional judgment and historical data were used to determine the most appropriate holding time for soil sample preparation and analysis. Table 4 presents the holding time criteria that were used to validate the data for this event.

Since no definite holding time has been established for anions in soil, the laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer. As such, results for nitrate and nitrite that were generated more than 72 hours after sampling but less than 30 days were qualified as estimated (J). All nitrate and nitrite results were

qualified as estimated based on this criterion. No results for nitrate or nitrite were generated more than 30 days after sampling.

Since no definite holding time has been established for pH measurements in soil, the laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer. As such, results for pH that were measured more than 72 hours after sampling but less than 14 days were qualified as estimated (J). All pH results measured more than 14 days after sampling were qualified as rejected (R). All soil pH results were qualified as estimated (J), except one, which was rejected because results were obtained more than 14 days after sampling.

Results bias cannot be predicted for pH, nitrate, or nitrite, so no bias qualifier was assigned in the database. Table 5 lists all sample results qualified based on holding time exceedances during this reporting period. Data qualified based on holding time exceedance were also assigned the validation comment code "h" in the database.

As stated above, one soil pH result exceeded the laboratory's extended holding time. As such, the following pH result was qualified as rejected and is considered unusable for meeting project objectives:

SDG Number	Associated Samples	Analyte
F5F160308	BRC-BKG-04C1-0-0.5	pH

Note that the reanalysis of the radium-226 and radium-228 were conducted just after the 180-day technical holding time for radionuclides. No qualification was applied to soil sample results, because the soil matrix for each sample was digested prior to the holding time, even though the analysis took place after the holding time. Digesting the soil matrix solubilizes the radium (and other inorganic constituents) into an acid matrix. Since radium is not redox sensitive (exists as Ra^{2+}) the digest is considered a stable matrix.

2.1.2 Calibration

Instrument calibration data are provided in the full data packages. Initial and continuing calibration concentrations, frequencies, and results were evaluated. All calibrations and calibration verifications were acceptable. As such, no data were qualified based on calibration issues.

2.1.3 Blank Samples

Field and laboratory blanks consisting of contaminant-free water were prepared and analyzed as part of standard QA/QC procedures to monitor for potential contamination of field equipment, laboratory process reagents, and sample containers. For this program, two groups of blanks were prepared and analyzed: (1) laboratory QC blanks (method blanks), and (2) field QC blanks (equipment rinsate blanks and temperature blanks). Each blank type is discussed in the following sections.

2.1.3.1 Laboratory QC Blanks

Method blanks are laboratory QC samples that are prepared and analyzed with each batch of environmental samples. Method blanks are comprised of high-grade, contaminant-free water that is carried though all preparation procedures in batches with field samples (including the addition of all reagents and QC monitoring compounds). Method blanks monitor potential contaminants in laboratory processes, reagents, and containers, and were analyzed for each analytical method used on field samples.

The following analytes were detected in one or more method blank (note that sample results may or may not have been qualified for all listed analytes based on the comparison of blank concentrations to sample concentrations; qualified data are discussed in Section 2.1.3.3):

- Total metals detected in method blanks – Aluminum, arsenic, barium, boron, calcium, copper, iron, lithium, magnesium, manganese, mercury, nickel, niobium, phosphorus, silicon, sodium, strontium, thallium, titanium, tungsten, vanadium, and zinc
- Radionuclides detected in method blanks – Polonium-214, polonium-218, radium-228, thorium-230, thorium-231, and uranium-233/234
- Wet chemistries detected in method blanks – Sodium (for CEC analysis), chloride, fluoride, and sulfate

2.1.3.2 Field QC Blanks

Two types of field QC blanks were collected and analyzed with field samples: equipment rinsate blanks and temperature blanks. Each one monitors the potential impact of field and transportation conditions on the collection and integrity of field samples as discussed in the following paragraphs. Trip blanks were not collected, because volatile organic compounds were not analyzed in soil samples.

Equipment Rinsate Blanks – In order to identify any affect of carry-over from sampling equipment on sample collection, one equipment rinsate blank was collected during soil sample collection events at a

frequency of at least one for each day of sampling. A total of three equipment rinsate blanks were collected. Equipment rinsate blanks were prepared by pouring high-grade, contaminant-free water from its shipping container onto sampling equipment after decontamination between uses and collecting it directly into containers. Equipment rinsate blanks were shipped to the laboratory for analysis for the same parameters as the soil samples. Equipment rinsate blank results were submitted in hardcopy. The following analytes were detected in one or more equipment rinsate blanks:

- Total metals detected in equipment rinsate blank – Aluminum, arsenic, barium, boron, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, niobium, phosphorus, platinum, potassium, selenium, silicon, sodium, strontium, titanium, tungsten, uranium, vanadium, and zinc

- Radionuclides detected in equipment rinsate blank – Thorium-230, uranium-233/234, and uranium-238

No sample data were qualified based on rinsate blank contamination.

Temperature Blanks – A total of eight equipment rinsate blanks were collected and shipped to the laboratory with samples. Temperature blanks were prepared in the laboratory prior to sample kit delivery and included water contained in a small plastic bottle. Upon receipt of field samples by the laboratory, the temperature of the blank was recorded to verify that the field samples were held to the criterion of 4°C ±2°C. One cooler containing the following samples was received at the laboratory with a temperature reading of 9°C:

- BRC-BKG-04C-0-0.5, BRC-BKG-08B-0-0.5, BRC-BKG-08C-4-6, BRC-BKG-08A-0-0.5, BRC-BKG-08A-4-6, BRC-BKG-08B-9-11, BRC-BKG-08B-4-6, BRC-BKG-08C-9-11, and BRC-BKG-08C-0-0.5

The ambient temperature on the day of collection (June 15, 2005) was in excess of 100°F, so sample temperatures were significantly reduced from time of sampling to laboratory receipt. The temperature excursion was only a few degrees higher than recommended. Since all analytes being reported are not temperature sensitive (non-volatile metals, radionuclides, and anions), then it is the professional judgment of the reviewer that no qualification of sample results was required.

2.1.3.3 Qualifications Due to Blank Contamination

The previous subsections describe the types of blanks that were collected and analyzed with field samples in this reporting period. The sections also list the analytes that were detected in one or more of each type

of blank. This section discusses the procedure for evaluating blank results and applying qualifiers on field data.

Table 6 presents data that were qualified as undetected (U) or estimated and biased high (J+) based on laboratory blank contamination (including both calibration and method blanks). No sample data were qualified solely based on rinsate blank contamination, because analytes detected in rinsate blanks were also detected in method blanks and qualification was already made. Note that not every analyte detected in laboratory or field QC blanks resulted in qualification of data. If the criteria discussed below were not met for a given result, then no qualification was required.

The current validation guidelines for total metals (EPA 2004b) state that if the laboratory blank or field QC blank value is greater than the SQL (EPA uses the term "instrument detection limit") but less than the PQL (EPA uses the term "contract-required detection limit"), the following qualifications are recommended:

- All associated sample results greater than the SQL but less than the PQL will be qualified as undetected (U).
- All associated sample results greater than the PQL will be qualified at the discretion of the reviewer as estimated and possibly biased high (J+).

These criteria caused numerous trace-level metals results to be qualified as undetected (U) or estimated/biased high (J+). For statistical evaluations, all results qualified as "U" based on blank contamination are treated the same as true non-detects. The effect of qualifying low concentration detections as non-detects causes the number of censored data to increase while reducing the number of detect data used in statistical evaluations. This situation may result in higher means in the summary statistics for detected results, as the lower concentrations may now be considered non-detects.

Note that some results reported in Table 6 were qualified as "J-" (mostly niobium). The qualification of "J-" in these cases was due to irregularities other than blank contamination, which supersedes the qualification due to blank contamination. No data were rejected based on blank contamination.

2.1.4 Spike Samples

Spiked samples are environmental matrices spiked with a subset of target compounds at known concentrations. These QC samples were analyzed with project samples to measure laboratory accuracy and potential interference from the matrix. Two types of spike samples were analyzed with the project samples to monitor for potential interferences during analysis:

- Matrix spike (MS) and matrix spike duplicate (MSD) samples; these samples consist of aliquots of environmental samples spiked with a subset of target compounds. MS/MSD samples monitor potential interference from the site-specific sample matrix and its effect on target compounds.

- Blank spike samples, also known as laboratory control samples (LCS); these samples are an aliquot of reagent soil or water spiked with a subset of target compounds. The LCS monitors laboratory accuracy without the bias of a sample matrix. In some cases, the LCS was analyzed in duplicate (LCSD).

At least one MS/MSD sample and one LCS were prepared and analyzed with each batch of environmental samples except for radionuclide analysis, which require only LCSs. Note that for some SDGs, the laboratory conducted MS and MSD analyses on samples that were not specific to the background study. In those cases, evaluation of the MS and MSD is not conducted because the reviewer has no way to confirm that the matrix chosen is representative of samples from the study.

Spike recoveries for antimony, barium, niobium, strontium, zinc, and zirconium were consistently biased low; this may indicate the difficulty in either dissolution of the element or detection of the low energy emissions for these elements. In addition, recoveries for cadmium in some cases were high and other cases were low.

LCS and LCSD recoveries for radium-228 in two batches were high (134 and 175 percent). According to validation guidelines, associated positive results should be qualified as biased high. However, upon comparison of the radium-228 results to its long-lived parent isotope, thorium-232, it was found that radium-228 results in these batches were significantly high. It is possible that contamination or interferences may have caused the high results; however, the origin of the contamination or interference could not be determined by the laboratory. As such, the project team agreed to take the more conservative approach and reject the results associated with these two batches. The following results were rejected based on the criteria discussed above:

SDG	Sample ID	Analyte
F5F210233	BRC-BKG-01B-9-11	Radium 228
F5F210233	BRC-BKG-01C-0-0.5	Radium 228
F5F210233	BRC-BKG-01C-4-6	Radium 228
F5F210233	BRC-BKG-01C-9-11	Radium 228
F5F180132	BRC-BKG-03B-9-11	Radium 228
F5F180132	BRC-BKG-03C-0-0.5	Radium 228
F5F180132	BRC-BKG-03C-4-6	Radium 228
F5F180132	BRC-BKG-03C-9-11	Radium 228
F5F160308	BRC-BKG-04C-0-0.5	Radium 228
F5F210233	BRC-BKG-11A-0-0.5	Radium 228

F5F210233	BRC-BKG-11A-4-6	Radium 228
F5F210233	BRC-BKG-11A-9-11	Radium 228
F5F210233	BRC-BKG-11B-0-0.5	Radium 228
F5F210233	BRC-BKG-11C-4-6	Radium 228
F5F210233	BRC-BKG-12A-0-0.5	Radium 228
F5F210233	BRC-BKG-12A-9-11	Radium 228
F5F210233	BRC-BKG-12B-9-11	Radium 228
F5F210233	BRC-BKG-12C-0-0.5	Radium 228
F5F210233	BRC-BKG-12C-4-6	Radium 228
F5F210233	BRC-BKG-12C-9-11	Radium 228

Data that were qualified based on MS/MSD and/or LCS/LCSD recoveries that were outside the QC limits are presented in Table 7. Where possible, analytical bias was also determined and qualified data were assigned bias codes (- or +). Bias was not determinable in every case. Qualified results were also assigned the validation comment code "e" in the database. No data were rejected on the basis of MS/MSD; however, the results listed above were rejected due to poor LCS/LCSD recoveries. Rejected data are not usable for project objectives; all other data are usable to meet project objectives.

2.1.5 Tracer Yields

Tracer isotopes were added to each of the samples submitted for analysis of uranium, radium, and thorium isotopes. Tracers were added to the sample aliquot during preparation of the sample for analysis, and recoveries were compared with QC acceptance limits of 20 to 120 percent. Tracer recoveries outside the acceptable limits indicate interference from the sample matrix for the detection of target compounds. For this study, results for radium-226 (and polonium-218 quantified from radium-226) were qualified as estimated (J) because of high tracer yield. In the event of tracer yield recoveries over 100 percent, the laboratory uses 100 percent in the calculation of sample results. As such, the potential bias exhibited by the poor yield recovery is mitigated; therefore, no bias qualification was assigned. Results qualified for tracer yield are presented in Table 8 and were assigned the comment code "n" in the database. No data were rejected based on tracer yield.

2.1.6 Duplicate Samples

Duplicate samples involved the preparation and analysis of an additional aliquot of a field sample. Results from duplicate sample analysis measure laboratory precision as well as homogeneity of contaminants in the field matrix. For this investigation, three types of duplicate analyses were conducted: (1) MSDs for total metals, (2) matrix duplicates (MD) for inorganic analyses (anions) and radionuclides, and (3) field splits for both types of analyses. MSDs and MDs measure laboratory precision and sample

homogeneity, while field splits are used to evaluate field sampling technique precision, laboratory precision, and homogeneity of the sample matrix.

At least one duplicate analysis (MSD or MD) was performed with each batch of environmental samples processed in the laboratory. The laboratory calculated the relative percent difference (RPD) between the two detected values for MSD and MD analyses. RPD values within the acceptable limits indicate both laboratory precision and minimal matrix heterogeneity of compounds detected in the samples. Results associated with elevated RPD values were qualified as estimated to indicate the variability in detected concentrations or poor laboratory precision.

The RPDs for strontium, lead, and manganese were above the QC limit of 20 percent when the concentration exceeded five times the reporting limit (for results less than five times the reporting limit, the absolute difference between the duplicate results was evaluated) in some cases. Positive results associated with the duplicates in question were qualified as estimated (J); nondetects are not affected by duplicate precision. Bias could not be determined. Table 9 lists the sample results that were qualified as estimated (J) based on poor duplicate precision. These sample results were also assigned the validation comment code "d" in the database. No data were rejected based on laboratory duplicate results.

Five field split pairs were collected for background soil samples as follows:

- BRC-BKG-03A-3-7 and BRC-BCG-03A-3-7
- BRC-BKG-06C-0-0.5 and BRC-BCG-06C-0-0.5
- BRC-BKG-09C-0-0.5 and BRC-BCG-09C-0-0.5
- BRC-BKG-11C-0-0.5 and BRC-BCG-11C-0-0.5
- BRC-BKG-12B-0-0.5 and BRC-BCG-12C-0-0.5

However, the laboratory combined the duplicate samples from location 11C (BRC-BKG-11C-0-0.5 and BRC-BCG-11C-0-0.5) and 12B (BRC-BKG-12B-0-0.5 and BRC-BCG-12B-0-0.5) into two samples; one for location 11C and one for location 12B. As such, only three pairs of field split precision results were evaluated from a total of 104 field samples. To meet the collection frequency required by the workplan (5% or one per 20), all five should have been analyzed and evaluated. As such, the realized frequency of field splits is only 2.9 percent. According to EPA guidance, there are no specific criteria for evaluating field splits (EPA 2004b). Generally, field split precision was less than 50 percent RPD for sample results

that exceeded five times the reporting limit. Field split precision was not assessed when results were less than five times the reporting limit. No data were qualified based on field split precision.

2.1.7 Other Qualifications

Each of the paragraphs in this section addresses the following qualification scenarios and comment codes that are not already addressed in the larger review sections:

- Positive results for stable chemistries above the SQL, but less than the PQL (comment code "g") as reported in Table 10
- Other qualification including results with ICP serial dilution issues (included in comment code "j") as reported in Table 11
- Positive results for radiochemistries above the MDC, but less than the requested reporting limit (comment code "k") as reported in Table 12
- Results replaced by more sensitive analytical method results (comment code "l") as reported in Table 13

Quantitation less than the practical quantitation limit for stable chemistries – The laboratory evaluated the SQL and PQL for each sample result. In cases where sample results were greater than the SQL, but less than the PQL, the laboratory qualified results as estimated. Specifically, results with this scenario were qualified by the laboratory as "B" for metals and "J" for all other tests. During data validation, positive results less than the PQL but greater than or equal to the SQL were qualified as estimated (J). Qualitatively, the results are acceptable; however, these results were considered estimated, because as the value approaches the SQL, the accuracy of the measurement is less certain. In these cases, bias cannot be determined. Results qualified as estimated (J) for this reason are presented in Table 10 and were assigned the validation comment code "g" in the database.

Other stable chemistries qualifications – This category includes other issues that may affect data quality and for which qualifiers have been assigned. Specifically, the percent difference between the original analysis and the required ICP serial dilution exceeded the QC limit for several metals analyzed by ICP and ICP/MS. As such, the results for these analytes in numerous samples were qualified as estimated (J). No bias was determined for these results. One high-value outlier for the uranium mass was checked by converting the isotopic activity of uranium-238 to mass (uranium-238 constitutes more than 99 percent of the mass of naturally occurring uranium). This calculation yielded a mass of 2.4 milligrams per kilograms (mg/kg) instead of the 7.6 mg/kg reported by the laboratory. As a result of this calculation, the value of 7.6 mg/kg was excluded from the working data set. Even though associated laboratory QC

measurements were acceptable, the value was rejected and qualified "R." The rejected result is as follows:

SDG Number	Associated Samples	Analyte
F5F160308	BRC-BKG-04B-4-6	Uranium (total)

Results qualified for these issues are included in Table 11 and were assigned the validation comment code "j" in the database.

Radiochemistries quantification issue – This qualification is meant to indicate positive radioisotope results that were reported at concentrations less than the required reporting limit, but still greater than the MDC. While the qualification does not seriously affect data quality, the laboratory chose to qualify these results as estimated. As such, these results were qualified as estimated (J). No bias was determined. Results qualified for this issue are included in Table 12 and were assigned the validation comment code "k" in the database. No data were rejected based on this criterion; however, some radium-228 results listed in Table 12 have "R" qualifiers for other reasons (see Section 2.1.4).

Analytical method sensitivity – This qualification is meant only to select the most appropriate sample result for reporting when one or more values are reported for a given analyte using different analytical techniques. Thorium-228, thorium-230, thorium-232, and uranium-238 results were obtained from both isotopic alpha spectroscopy analysis and gamma spectroscopy analysis (when gamma intensities were detectable by the instrument). Since the gamma spectroscopy results are less reliable than the isotopic analysis, the gamma spectroscopy results were flagged (X) as not reportable. Flagged results are included in Table 13 and were assigned the comment code "l" in the database.

2.1.8 Summary of Rejected Data

Based on the review summarized in the sections above, sample results listed in Table 14 were rejected. The rejected results included one pH result, one total uranium result, as well as several radium-228 results. The pH result was rejected due to holding time issues (see Section 2.1.1). The total uranium result was rejected based on a statistical determination that the result was erroneously high. The radium-228 results were rejected because of high LCS recoveries and concerns that the results were biased high, as confirmed by interelement correlations (see Section 2.1.4). All other data were usable to meet project objectives with the qualifications discussed in the sections above.

2.2 EVALUATION OF PARCCS PARAMETERS

Overall data quality was acceptable based on the critical indicator parameters, except for data specifically rejected and qualified as such (R) (Section 2.1.8). PARCCS parameters were reviewed for laboratory analytical results obtained during the background soil sampling event, and the sections below discuss the results of the evaluation for each indicated parameter.

2.2.1 Precision

Precision is the measure of the variability associated with an entire sampling and analysis process. It is the comparison among independent measurements as the result of repeated application of the same process under similar conditions. It is determined by analyzing field split pairs, MSD pairs, and MD pairs. Precision is expressed as the RPD of a pair of values (or results).

Field split pairs were collected, analyzed, and evaluated for each analysis performed on every sample matrix. Frequencies of field split pairs submitted to the laboratory for analysis were shown to be 2.9 percent for the data collected during this event (3 out of 104 soil samples). This frequency does not meet the requirement of 5 percent (1 per 20 field samples). Two additional field split samples were collected at locations 11C and 12B; however, the additional sample was not identified on the field chain-of-custody documentation. As such, the additional sample volumes were not analyzed. Generally, field split precision was less than 50 percent RPD and did not indicate issues with heterogeneity of the matrix. No data were qualified because of field split precision.

The frequency criterion for MSD or MD pairs is 5 percent of the samples (per matrix) or one per each analytical batch of 20 or less per matrix. MSD or MD samples were collected, analyzed, and evaluated for each analysis performed on every sample matrix. The frequencies in which MSDs or MDs were prepared and analyzed by the laboratory met the frequency requirement as stated above. Table 9 presents data qualified as estimated based on MSD or MD precision. No data were rejected due to poor duplicate precision.

2.2.2 Accuracy

Accuracy is the degree to which a measurement agrees with its true value and is expressed as percent recovery. Accuracy is assessed by comparing MS, LCS, surrogate recoveries, and tracer yields with associated QC limits. MS, LCS, and tracer isotope recoveries were evaluated for compliance with acceptance criteria for each applicable analytical methodology.

The frequency criterion for MSs and LCSs is 5 percent of the samples per matrix or one per each analytical batch of 20 samples or less per matrix. MSs and LCSs were collected, analyzed, and evaluated for each analysis performed at the proper frequency. The criterion for MS and LCS accuracy is based on recommended QC limits provided in EPA validation guidelines and on laboratory historical QC limits for those analytes not presented in validation guidelines. Data were qualified as estimated based on tracer yields. Radium-228 data were rejected due to high recoveries of the LCS. Table 7 presents data that were qualified based on spiked sample recoveries. Table 8 presents data that were qualified based on tracer yield. Data were rejected based on accuracy issues (LCS recovery). The rejection of the radium-228 results from the BRC/TIMET dataset reduced the total number of valid data points for the mixed (River and McCullough) sampling location to only three points. As such, the comparison of sample origin conducted during the statistical evaluations for radium-228 was not conducted due to insufficient number of valid results (minimum of 4 valid results necessary to conduct the comparisons). Sufficient valid results were remaining for radium-228 to conduct the statistical evaluation of depth.

2.2.3 Representativeness

Representativeness is a qualitative parameter and is defined by the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or a process or environmental condition. Sample results were evaluated for representativeness by examining items related to sample collection, including chain-of-custody documentation, sample labeling, collection dates, and condition of the samples upon receipt at the laboratory. Laboratory procedures also were examined, including anomalies reported by the laboratory, either upon receipt of the samples at the laboratory or during analytical processes, adherence to recommended holding times of samples prior to analysis, calibration of laboratory instruments, adherence to analytical methods, and completeness of data package documentation. Two aspects of sample collection and handling affected data quality: (1) holding time exceedances, and (2) the condition of sample receipt.

Sample results were qualified as estimated where holding times were exceeded, and one sample result was qualified as rejected (R) due to an excessively long holding time. Table 5 presents the sample results qualified for holding time exceedances. As stated in Section 2.1.1, biases were not determined for anions and pH. The rejected result is not usable for further evaluation of background characteristics.

In addition to holding times discussed above, representativeness is evaluated by reviewing blanks (laboratory method blanks and field QC blanks). Laboratory and field QC blanks contained detectable amounts of metals, radionuclides, and wet chemistries (listed in Section 2.1.3). Generally, concentrations

detected in the blanks were considerably less than reported results for the field samples; therefore, these concentrations did not affect overall data quality. Sample results qualified based on laboratory blanks are presented in Table 6. No results were qualified due to field QC blanks. Most of the affected data were qualified as undetected (U). Positive results, qualified as estimated (J) due to blank contamination, were considered biased high (+).

Sample condition upon receipt is another element of representativeness that was evaluated. One sample shipping container (cooler) was received with a temperature reading of 9ºC. The ambient temperature on the day of collection (June 15, 2005) was in excess of 100ºF, so sample temperatures were significantly reduced from time of sampling to laboratory receipt. The temperature excursion was only a few degrees higher than recommended. Since all analytes being reported are not temperature sensitive (non-volatile metals, radionuclides, and anions), then it is the professional judgment of the reviewer that no qualification of sample results was required and sample integrity was not compromised.

2.2.4 Completeness

Completeness is defined as the percentage of measurements judged to be valid. The validity of sample results is determined through the data validation process. All rejected sample results are considered to be incomplete. Data that are qualified as undetected (U), undetected at estimated reporting limits (UJ), and estimated (J) are considered to be valid and usable. The number of valid results divided by the number of possible individual analyte results, expressed as a percentage, determines the completeness of the data set.

For background soil data collected during this event, 22 sample results were rejected (R) (Section 2.1.8). The total number of records in the background sampling event database is 11,268. Of that, 2,495 are QC results (including laboratory QC samples and rinseate blanks) and 8,773 are field sample results (including the original field samples and the three field split samples). Of the field sample results, 106 results are flagged as not reportable (X), leaving 8,667 records of reportable field results. If 22 results are rejected from a total of 8,667 reportable field sample results, then the number of valid field sample results is 8,645. The percent complete (valid and not rejected) is 98.5 percent. This meets the completeness goal of 90 percent.

2.2.5 Comparability

Comparability of the data is a qualitative parameter that expresses the confidence with which one data set may be compared with another. Comparability of the data is achieved by using standard methods for sampling and analysis, reporting data in standard units, normalizing results to standard conditions, and

using standardized reporting formats and data validation procedures. Data collected during this event uses the same or very similar analytical methods as other data collected during investigations conducted at the BMI complex and TIMET facility. It is understood that prior to direct comparison of results from this study to any other investigation, a thorough comparison of methodologies will be conducted. Concurrent with the preparation of this DVSR, alternative analytical methods are being evaluated for the analysis of radium isotopes in order to ensure the best comparison between existing background data and those obtained from this and future data collection events.

2.2.6 Sensitivity

Sensitivity is the measure of the signal from an instrument that represents an actual deflection or response above instrument noise. Analytical sensitivity is measured by the MDL and is reported with the necessary dilution factors, preparation factors, and dry-weight factors of an individual sample as the SQL. The sensitivity requirements were based on the laboratory's ability to detect and report consistent and reliable limits.

For the purposes of establishing background concentrations, the laboratory was instructed to provide the lowest feasible detection limit (MDL) that can be achieved on the sample matrix. Sample-specific characteristics and preparation factors were used to calculate the SQL for each analyte and each sample, based on these lowest achievable MDLs. Detected results will be directly evaluated by statistical methods to establish background concentrations. For stable chemistry analytes, non-detects will be handled according to the statistical evaluation methods used and discussed in the background data evaluation document. For radiochemical analytes, the actual numerical value calculated as the MDC will be used in statistical evaluation; even if the analyte is not detected.

Scenarios involving dilutions, high moisture content, and matrix interference affect the SQL by raising it according to the dilution factor or percent moisture content. Dilutions were required for numerous metals and anion analyses because of high concentrations. Whenever the concentration exceeded the linear range of the instrumentation, dilutions were analyzed. All dilutions were reported.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This section summarizes the conclusions and recommendations regarding usability of the data for the project objectives. Based on the evaluation of each data set, greater than 90 percent of the groundwater data obtained during this reporting period are valid (that is, not rejected) and acceptable for their intended use. Biased data will be used as follows:

- Biased high results based on spike recoveries and blank contamination will be used as the upper limit of concentration for the analyte, recognizing that the actual value may be lower.

- Biased low results based on spike recoveries and method biases will be used as the lower limit of concentration for the analyte, recognizing that the actual value may be higher.

All validated data points may be considered for use in other purposes that extend beyond the original project objectives; however, limitations may exist, as with the radium-228 results discussed in Section 2.2.2. Other limitations on data usability for future purposes may arise, but are not addressed in the scope of this document. These limitations will be identified through subsequent data evaluations and mitigated where possible by collecting additional data in future investigations.

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DATA VALIDATION SUMMARY REPORT

FIGURE

BMI COMMON AREAS

BMI INDUSTRIAL AREA

BG-08

BG-07

BG-06

BG-04

BG-05

BG-03

BG-02

BG-01

1

2

3

4

5

6

7

8

9

11

12

Proposed Background Soil Sample Location

ENVIRON Background Soil Sample Location

2,000 1,000 0 2,000 Feet

N

Nevada-Clark Co. 7.5 Minute Series (Topographic)
Henderson, Nevada SE, Boulder City NW, and Sloan NE Quadrangles

BMI Site
Henderson, Nevada

FIGURE 1

SITE LOCATION AND TOPOGRAPHIC MAP

Basic Remediation Company

Prepared by:	Date	JOB No. 1881262
MKJ MWH	04/08/05	FILE: GIS/BRC/BKGD_FIGURE1.MXD

DATA VALIDATION SUMMARY REPORT

TABLES

TABLE 1
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BCG-03A 3-7 [a]	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-06C 8-12 [a]	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-09C 0-0.5 [a]	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 4-6	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 3-7	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-03B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 4-6	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C1 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 9-11	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 0-0.5	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-06A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 8-12	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 4-6	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 9-11	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A-0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-09-A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 0-0.5	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 0-0.5	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
RINSATE BLANK	06/16/05	F5F170373	Water	Partial	X	X	X	X	X	--	--	--	--	X
RINSATE BLANK	06/16/05	F5F180132	Water	Partial	X	X	X	X	X	--	--	--	--	--
RINSATE BLANK-RB	06/17/05	F5F210233	Water	Partial	X	X	X	X	X	--	--	--	--	X

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

α & β	Alpha and beta
CEC	Cation exchange capacity
Cr VI	Hexavalent chromium
Ra	Radium
SDG	Sample delivery group
Spec	Spectroscopy
Th	Thorium
U	Uranium

[a] Three sample represent the field split samples used for quality control purposes.

TABLE 2
DATA VALIDATION CRITERIA
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Inorganics Validation Criteria [1]	**Full**	**Partial**
Holding times	X	X
Calibration (initial and continuing)	X	--
Blanks (laboratory and field)	X	X
ICP interference check sample	X	--
Laboratory control sample	X	X
Duplicate sample analysis	X	X
Matrix spike analysis	X	X
ICP serial dilution	X	X
Tracer yield (radionuclide analysis only)	X	X
Sample results verification	X	--
Field duplicate	X	X
Overall assessment of data set	X	X

Notes:

-- Not included
ICP Inductively coupled plasma

1 Inorganics include metals, anions, and radionuclides.

TABLE 3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Validation Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
X	Result is not used for reporting because a more accurate and precise results is reported in its place.
+	Estimated results are possibly biased high based on associated quality control
–	Estimated results are possibly biased low based on associated quality control
Comment Code	**Definition**
a	Surrogate recovery exceeded
b	Laboratory method blank and common blank contamination
c	Calibration criteria exceeded
d	Duplicate precision criteria exceeded
e	Matrix spike or laboratory control sample recovery exceeded
f	Field blank contamination
g	Quantification below practical quantitation limit for stable chemistries
h	Holding time exceeded
i	Internal standard criteria exceeded
j	Other stable chemistry qualification (for example, serial dilution exceedances)
k	Radiochemistry quantitation issue (for example, result less than the required reporting limit)
l	Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy)
m	Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis)
n	Radiochemistry tracer yield criteria exceeded
o	Other radiochemistry qualification (for example, biases due to interference from other radioisotopes)

TABLE 4
HOLDING TIMES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Parameter	Aqueous Matrix	Soil/Sediment Matrix
Total metals (except mercury)	180 days	180 days
Total mercury	28 days	28 days
Hexavalent chromium	24 hours	30 days
Bicarbonate alkalinity	14 days	14 days
Anions (fluoride, chloride, nitrate, nitrite, and sulfate)	28 days; 48 hours for nitrate and nitrite only	28 days for all; 72 hours for nitrate and nitrite [1]
pH	48 hours	72 hours [2]
Radionuclides	180 days	180 days
Cation exchange capacity (calculated)	Not applicable	Not applicable

Notes:

[1] No definite holding time has been established for anions in soil. The laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer.

[2] No definite holding time has been established for pH in soil. The laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer.

TABLE 5
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrate	0.1	0.35		J	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	pH (solid)		9.1		J	h	none
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrate	0.11	0.62		J	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrate	0.1	0.22		J	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrate	0.11	0.71		J	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7		R	h	none
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrate	0.11	3.4		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrate	0.1	3.3		J	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrate	0.11	0.93		J	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrite	0.066	ND	U	UJ	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	pH (solid)		8.7		J	h	none
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrate	0.1	1.3		J	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrate	0.1	2.6		J	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrate	0.1	9.3		J	h	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrate	1	58.6		J	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrate	1	20.8		J	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrate	1	54.9		J	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrate	0.1	10.4		J	h	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrate	0.11	1.8		J	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrate	0.1	3.2		J	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrate	0.1	0.41		J	h	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrate	0.1	6.7		J	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrate	0.1	3.8		J	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrate	0.1	2.8		J	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrate	1	53.4		J	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	pH (solid)		8.1		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrate	5.2	34		J	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrate	0.1	6.2		J	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrate	0.1	0.47		J	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrate	0.1	4.7		J	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrate	0.1	0.31		J	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrate	5.1	102		J	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrate	1	42.1		J	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	pH (solid)		8.4		J	h	none
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrate	1	75.8		J	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrate	1	34.5		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrate	0.1	0.37		J	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrate	1	14.6		J	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrate	0.1	2.1		J	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrate	1	26.1		J	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrate	1	26.3		J	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrate	5.1	14.9		J	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrite	0.061	0.21		J	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrate	0.11	0.66		J	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrate	0.1	2.9		J	h	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrate	5.2	86.2		J	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrate	5.2	28.1		J	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrate	0.11	1.6		J	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrate	0.11	0.67		J	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrate	0.1	0.58		J	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	pH (solid)		8		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrate	0.1	0.63		J	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrate	0.1	0.87		J	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrate	0.1	0.59		J	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrate	0.1	0.61		J	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrite	0.063		U	UJ	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrate	0.13	0.87		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrite	0.077	ND	U	UJ	h	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrate	0.11	0.9		J	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrate	0.11	0.65		J	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrate	0.11	0.96		J	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrate	0.1	0.57		J	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrate	0.11	2.4		J	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrate	0.1	0.64		J	h	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrate	0.1	0.45		J	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrate	0.11	0.69		J	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrate	0.1	0.49		J	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	pH (solid)		8.2		J	h	none

Notes:

B Analyte was detected at a concentration less than the PQL
mg/kg Milligram per kilogram
g Comment code for concentrations greater than the SQL, but less than the PQL
h Comment code for holding time exceedance
J Estimated value
ND Not detected
PQL Practical quantitation limit
R Sample result was rejected due to quality control issues
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected
UJ Undetected at an estimated quantitation limit

1 The RL in this table refers to the PQL for anions and pH.
2 "ND" indicates that the analyte was not detected above the associated SQL.

TABLE 6
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Fluoride	0.053	0.89	B J	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35	J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 233/234	0.08	0.76	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Boron	3.2	5	B	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Fluoride	0.054	1.5	J	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91	J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 233/234	0.1	0.85	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Chloride	0.25	0.38	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46	J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 231	0.04	0.059	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Fluoride	0.053	0.76	B J	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59	J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 231	0.038	0.043	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 233/234	0.08	0.9	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 231	0.041	0.061	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 233/234	0.06	0.85	J	U	b	pci/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Chloride	0.26	1.8	B	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Fluoride	0.054	1	B J	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47	J	U	k, b	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Chloride	0.26	1.6	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Fluoride	0.053	1.6	J	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 231	0.096	0.101	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 233/234	0.1	0.86	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11	J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thallium	0.5428	0.75	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 231	0.063	0.101	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 233/234	0.08	0.97	J	U	b	pci/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Boron	3.2	5.6		J+	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Chloride	0.25	0.74	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82	J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 233/234	0.12	0.68	J	U	b	pci/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Fluoride	0.054	2.5	J	J+	b	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015		N U	UJ-	b, e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium 233/234	0.09	1.07		U	b	pci/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78	J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Sulfate	0.62	3.3	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium 233/234	0.16	0.76	J	U	b	pci/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Uranium 233/234	0.1	0.9	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Boron	3.2	3.6	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Chloride	0.27	1.8	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Fluoride	0.055	2.1		U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5	J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 231	0.045	0.083	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 233/234	0.08	0.83	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Chloride	0.25	0.51	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86	J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Sulfate	0.62	2.8	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 231	0.042	0.124	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 233/234	0.08	0.88	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Chloride	0.25	1.8	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 231	0.048	0.054	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Boron	3.2	8.8		J+	b	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 233/234	0.15	0.98	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Fluoride	0.053	0.58	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thallium	0.5428	0.98	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 231	0.1	0.12	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 233/234	0.11	0.92	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Boron	3.2	5.5		J+	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Fluoride	0.053	0.93	B	U	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 231	0.077	0.087	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 233/234	0.1	0.95	J	U	b	pci/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Fluoride	0.053	1.4		U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thallium	0.5428	0.71	B	U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 233/234	0.11	0.94	J	U	b	pci/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium 233/234	0.08	1.25		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 231	0.036	0.054	J	U	b	pci/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 233/234	0.06	0.79	J	U	b	pci/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Chloride	0.25	1.3	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sulfate	0.62	4.8	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 233/234	0.05	0.95	J	U	b	pci/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Fluoride	0.054	1.2		U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thallium	0.5428	1.1	B	U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Boron	3.2	5.1	B	U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Fluoride	0.053	1.6		U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thallium	0.5428	0.57	B	U	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Boron	3.2	6.2		J+	b	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Boron	3.2	6.3		J+	b	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Thallium	0.5428	0.36	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Boron	3.2	5.4		J+	b	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thallium	0.5428	0.22	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thallium	0.5428	0.54	B	U	b	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thallium	0.5428	0.51	B	U	b	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thallium	0.5428	0.48	B	U	b	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thallium	0.5428	0.66	B	U	b	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thallium	0.5428	0.76	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Chloride	0.25	1.6	B J	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 233/234	0.12	0.63	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Fluoride	0.053	1.2		U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thallium	0.5428	0.32	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 231	0.05	0.12	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Boron	3.2	7.1		J+	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Fluoride	0.052	0.72	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thallium	0.5428	0.44	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 231	0.039	0.043	J	U	b	pci/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Boron	3.2	6		J+	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Fluoride	0.051	0.36	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 231	0.037	0.042	J	U	b	pci/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 233/234	0.05	0.72	J	U	b	pci/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Fluoride	0.052	0.6	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Boron	3.2	11.6		J+	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Fluoride	0.052	0.61	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 233/234	0.11	1.02		U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Fluoride	0.053	0.55	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 231	0.068	0.093	J	U	b	pci/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Fluoride	0.053	0.79	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thorium 231	0.038	0.126	J	J+	b	pci/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Boron	3.2	7.8		J+	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Fluoride	0.052	0.52	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Fluoride	0.053	0.77	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 231	0.066	0.089	J	U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Fluoride	0.053	0.75	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Thorium 231	0.03	0.21	J	J+	b	pci/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Fluoride	0.052	0.36	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thallium	0.5428	0.68	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 231	0.051	0.076	J	U	b	pci/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 233/234	0.09	1.22		J+	b	pci/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thallium	0.5428	0.79	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium 233/234	0.08	0.92	J	U	b	pci/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Chloride	0.25	1.5	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Fluoride	0.052	0.34	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium 233/234	0.12	1	J	U	b	pci/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thallium	0.5428	0.61	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 233/234	0.1	1.01		U	b	pci/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Fluoride	0.052	0.76	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium 233/234	0.09	1.03		U	b	pci/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Boron	3.2	5.7		J+	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Uranium 233/234	0.15	1.22		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thallium	0.5428	0.56	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium 233/234	0.15	1.14		U	b	pci/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Fluoride	0.052	0.4	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Niobium	1.015	2	BN	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium 233/234	0.13	1.17		U	b	pci/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Chloride	0.25	0.77	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Sulfate	0.62	2.2	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thallium	0.5428	0.96	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 233/234	0.07	0.85	J	U	b	pci/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Fluoride	0.052	0.63	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thallium	0.5428	0.28	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium 233/234	0.1	1.16		U	b	pci/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 233/234	0.07	0.95	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thallium	0.5428	0.24	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 231	0.042	0.077	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Boron	3.2	5.2		J+	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Chloride	0.25	1.4	B J	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Sulfate	0.62	3.5	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium 233/234	0.06	1.05		U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Fluoride	0.054	0.32	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 233/234	0.12	1.23		J+	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Boron	3.2	7.7		J+	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Fluoride	0.053	0.23	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 231	0.094	0.099	J	U	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Boron	3.2	5.3		J+	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Chloride	0.25	1.7	B J	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thallium	0.5428	0.63	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 231	0.072	0.098	J	U	b	pci/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 233/234	0.09	0.84	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Fluoride	0.053	0.29	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 233/234	0.12	1.07		U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Boron	3.2	8.6		J+	b	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Chloride	0.25	0.96	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Niobium	1.015	2.4	BN	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Sulfate	0.61	3.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 231	0.049	0.054	J	U	b	pci/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tungsten	0.0175	1.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 233/234	0.1	0.8	J	U	b	pci/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Chloride	0.26	0.86	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Niobium	1.015	1.6	BN	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tungsten	0.0175	0.99	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 233/234	0.06	0.77	J	U	b	pci/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thallium	0.5428	0.9	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tungsten	0.0175	0.81	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 233/234	0.13	0.68	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Chloride	0.25	0.72	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 233/234	0.11	0.98	J	U	b	pci/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tungsten	0.0175	0.65	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium 233/234	0.08	1.05		U	b	pci/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Boron	3.2	10.2		J+	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Chloride	2.6	6.2	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tungsten	0.0175	0.94	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tungsten	0.0175	0.67	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tungsten	0.0175	0.66	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Boron	3.2	8.2		J+	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Chloride	0.25	1.2	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Sulfate	0.62	1.7	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tungsten	0.0175	1.6	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 233/234	0.14	0.82	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 231	0.04	0.17	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tungsten	0.0175	1.2	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Chloride	0.25	0.93	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Sulfate	0.62	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 231	0.07	0.13	J	U	b	pci/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 233/234	0.14	0.71	J	U	b	pci/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tungsten	0.0175	0.78	B	U	b	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 233/234	0.08	0.75	J	U	b	pci/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thallium	0.5428	0.93	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Tungsten	0.0175	0.96	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 233/234	0.11	0.58	J	U	b	pci/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Chloride	0.25	1	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Sulfate	0.61	2.7	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tungsten	0.0175	0.68	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 233/234	0.13	0.47	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Chloride	0.26	1.7	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 231	0.068	0.076	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tungsten	0.0175	0.71	B	U	b	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 233/234	0.05	0.9	J	U	b	pci/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thallium	0.5428	0.95	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tungsten	0.0175	1.5	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Chloride	0.25	0.97	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Sulfate	0.62	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 233/234	0.04	0.83	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Sulfate	0.77	2.2	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 231	0.036	0.053	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 231	0.033	0.037	J	U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tungsten	0.0175	0.84	B	U	b	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 233/234	0.03	0.96	J	U	b	pci/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Sulfate	0.62	0.86	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tungsten	0.0175	0.73	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 233/234	0.11	0.83	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Chloride	0.26	1.6	B J	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Sulfate	0.64	3.1	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 233/234	0.09	0.95	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thallium	0.5428	0.58	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 231	0.01	0.102	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium 233/234	0.14	1.23		J+	b	pci/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Chloride	0.25	0.84	B J	U	b	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 233/234	0.08	1	J	U	b	pci/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium 233/234	0.12	1.14		U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 233/234	0.1	1.04		U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Chloride	0.25	1.3	B J	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Sulfate	0.62	1.4	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 231	0.041	0.06	J	U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 233/234	0.07	1.09		U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Boron	3.2	7.3		J+	b	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Thorium 231	0.039	0.058	J	U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 233/234	0.06	1.2		J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Boron	3.2	8.5		J+	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Fluoride	0.053	0.24	B	U	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 231	0.1	0.18	J	J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium 233/234	0.12	0.78	J	U	b	pci/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Sulfate	0.64	4.4	B	U	b	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
< >	Less than; greater than
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified due to other stable chemistry issues
k	Qualified because result is >MDC and < required reporting limit
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 7
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Barium	0.152	183	N	J	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Barium	0.152	245	N	J	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Barium	0.152	220	N	J	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Barium	0.152	272	N	J	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Barium	0.152	445	N	J	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6	J	R	k, e	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Barium	0.152	188	N	J	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Barium	0.152	197	N	J	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Strontium	0.0735	165	N	J-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Barium	0.152	191	N	J	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	b, e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Barium	0.152	152	N	J	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Barium	0.152	143	N	J	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Barium	0.152	145	N	J	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Barium	0.152	142	N	J	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Barium	0.152	171	N	J	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Barium	0.152	240	N	J	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Barium	0.152	146	N	J	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zinc	0.2207	51.6	N	J+	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zinc	0.2207	48.6	N	J+	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zinc	0.2207	39.6	N	J+	e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zinc	0.2207	51.2	N	J+	e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zinc	0.2207	41.9	N	J+	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zinc	0.2207	52	N	J+	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zinc	0.2207	39.7	N	J+	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zinc	0.2207	40	N	J+	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zinc	0.2207	42.6	N	J+	e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zinc	0.2207	36	N	J+	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zinc	0.2207	34.3	N	J+	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zinc	0.2207	32.5	N	J+	e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zinc	0.2207	35.6	N	J+	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zinc	0.2207	34.1	N	J+	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zinc	0.2207	35.7	N	J+	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zinc	0.2207	35.8	N	J+	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zinc	0.2207	36.9	N	J+	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zinc	0.2207	52.1	N	J+	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Strontium	0.0735	184	N	J-	e	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Strontium	0.0735	239	N	J-	e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Strontium	0.0735	145	N	J-	e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Strontium	0.0735	294	N	J-	e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Strontium	0.0735	234	N	J-	e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Strontium	0.0735	240	N	J-	e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Strontium	0.0735	144	N	J-	e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Strontium	0.0735	219	N	J-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15		R	e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Strontium	0.0735	567	N	J-	e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67		R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Strontium	0.0735	127	N	J-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42		R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Strontium	0.0735	230	N	J-	e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1		R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Strontium	0.0735	684	N	J-	e	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76		R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37		R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13		R	e	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2		R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12		R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21		R	e	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19		R	e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19		R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86	J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94	J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8	J	R	k, e	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71	J	R	k, e	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52	J	R	k, e	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37		R	e	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51		R	e	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
k	Result is greater than MDC but less than the required reporting limit
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
ND	Not detected
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
R	Result is rejected
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1	The RL represents the SQL for metals and the MDC for radionuclides.
2	“ND” indicates that the analyte was not detected above the associated SQL.

TABLE 8
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 226	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 226	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	1.14		J	n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 226	0.119	1.14		J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0905	1.18		J	n	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Radium 226	0.0905	1.18		J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0925	1.06		J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Radium 226	0.0925	1.06		J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0577	1.18		J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 226	0.0577	1.18		J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	1.53		J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 226	0.128	1.53		J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.147	1.09		J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Radium 226	0.147	1.09		J	n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807	J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807	J	J	k, n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.177	1.58		J	n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Radium 226	0.177	1.58		J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.154	1.15		J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 226	0.154	1.15		J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.227	2.1		J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Radium 226	0.227	2.1		J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	1.22		J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Radium 226	0.156	1.22		J	n	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.145	1.82		J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Radium 226	0.145	1.82		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 226	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Radium 226	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Radium 226	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 226	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 226	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	1.22		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 226	0.185	1.22		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 226	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784	J	J	k, n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.101	1.96	J	n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 226	0.101	1.96	J	n	pCi/g

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
J	Result is estimated
k	Qualified because result is >MDC but < required reporting limit
MDC	Minimum detectable concentration
n	Qualified due to poor tracer yield
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 9
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Lead	0.0506	9.9	N*	J	d	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Lead	0.0506	19.1	N*	J	d	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Lead	0.0506	5.7	N*	J	d	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Lead	0.0506	6.3	N*	J	d	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Lead	0.0506	3	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Lead	0.0506	5	N*	J	d	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Lead	0.0506	12.2	N*	J	d	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Lead	0.0506	3.6	N*	J	d	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Lead	0.0506	21	N*	J	d	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Lead	0.0506	11.7	N*	J	d	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Lead	0.0506	17.5	N*	J	d	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Lead	0.0506	12.4	N*	J	d	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Lead	0.0506	9.4	N*	J	d	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Lead	0.0506	6.7	N*	J	d	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Lead	0.0506	7.8	N*	J	d	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Lead	0.0506	7.9	N*	J	d	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Manganese	0.0131	397	N*	J	d	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Manganese	0.0131	433	N*	J	d	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Manganese	0.0131	522	N*	J	d	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Manganese	0.0131	268	N*	J	d	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Manganese	0.0131	398	N*	J	d	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Manganese	0.0131	455	N*	J	d	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Manganese	0.0131	288	N*	J	d	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Manganese	0.0131	287	N*	J	d	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Manganese	0.0131	678	N*	J	d	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Manganese	0.0131	312	N*	J	d	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Manganese	0.0131	449	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

*	Laboratory qualification due to poor duplicate precision
b	Qualified due to blank contamination
d	Qualified due to poor duplicate precision
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Laboratory qualification due to poor matrix spike recovery
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 10
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	CEC	50	19.4	J	J	g	meq/100g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Molybdenum	0.241	0.3	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tin	0.187	0.57	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	CEC	50	13.2	J	J	g	meq/100g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	CEC	50	14.9	J	J	g	meq/100g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tin	0.187	0.68	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	CEC	50	16.3	J	J	g	meq/100g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Mercury	0.0072	0.029	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tin	0.187	0.65	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	CEC	50	14.7	J	J	g	meq/100g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Mercury	0.0072	0.03	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	CEC	50	10	J	J	g	meq/100g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Beryllium	0.038	0.16	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	CEC	50	13.3	J	J	g	meq/100g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Molybdenum	0.241	0.34	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Platinum	0.0435	0.082	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tin	0.187	0.8	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium	0.038	0.87	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	CEC	50	15.3	J	J	g	meq/100g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium	0.038	0.62	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	CEC	50	15.6	J	J	g	meq/100g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	CEC	50	17.4	J	J	g	meq/100g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Mercury	0.0072	0.032	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Beryllium	0.038	0.35	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	CEC	50	15.9	J	J	g	meq/100g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Beryllium	0.038	0.54	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Mercury	0.0072	0.034	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Beryllium	0.038	0.33	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	CEC	50	15.5	J	J	g	meq/100g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	CEC	50	19.2	J	J	g	meq/100g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Beryllium	0.038	0.32	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	CEC	50	15.1	J	J	g	meq/100g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	CEC	50	14.6	J	J	g	meq/100g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	CEC	50	7.9	J	J	g	meq/100g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Platinum	0.0435	0.099	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tin	0.187	0.75	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Beryllium	0.038	0.29	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tin	0.187	0.69	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tin	0.187	0.76	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium	0.038	0.98	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Beryllium	0.038	0.49	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Molybdenum	0.241	0.66	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Platinum	0.0435	0.045	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Mercury	0.0072	0.018	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Molybdenum	0.241	0.63	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Mercury	0.0072	0.0093	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Selenium	0.1579	0.35	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tin	0.187	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Molybdenum	0.241	0.57	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Mercury	0.0072	0.0085	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Molybdenum	0.241	0.56	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Molybdenum	0.241	1	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tin	0.187	0.49	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Uranium	0.038	0.76	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Uranium	0.038	0.91	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tin	0.187	0.36	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tin	0.187	0.78	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Beryllium	0.038	0.38	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Molybdenum	0.241	0.4	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tin	0.187	0.32	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Mercury	0.0072	0.0092	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Molybdenum	0.241	0.75	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Mercury	0.0072	0.0091	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Molybdenum	0.241	0.84	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Molybdenum	0.241	0.68	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Molybdenum	0.241	0.79	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium	0.038	0.64	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium	0.038	0.76	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium	0.038	0.68	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium	0.038	0.96	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tin	0.187	0.62	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium	0.038	0.83	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Molybdenum	0.241	0.59	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Mercury	0.0072	0.0086	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tin	0.187	0.67	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Molybdenum	0.241	0.76	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium	0.038	0.99	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Molybdenum	0.241	0.65	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Selenium	0.1579	0.38	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Selenium	0.1579	0.33	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Molybdenum	0.241	0.78	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Molybdenum	0.241	0.7	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium	0.038	0.78	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Mercury	0.0072	0.0097	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tin	0.187	0.28	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Molybdenum	0.241	0.94	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Selenium	0.1579	0.28	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium	0.038	0.79	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tin	0.187	0.29	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Uranium	0.038	0.74	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tin	0.187	0.24	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium	0.038	0.51	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tin	0.187	0.2	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium	0.038	0.67	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Molybdenum	0.241	0.83	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium	0.038	0.63	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Beryllium	0.038	0.52	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Molybdenum	0.241	0.97	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tin	0.187	0.22	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium	0.038	0.74	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Molybdenum	0.241	0.89	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tin	0.187	0.47	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Antimony	0.3298	0.23	BN	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Mercury	0.0072	0.0084	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Antimony	0.3298	0.21	BN	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium	0.038	0.72	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Antimony	0.3298	0.29	BN	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Molybdenum	0.241	0.44	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Molybdenum	0.241	0.74	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tin	0.187	0.32	B	J	g	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
B	Reported value is greater than the SQL, but less than the PQL
CEC	Cation exchange capacity
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
g	Qualified because result is greater than the SQL, but less than the PQL
h	Qualified due to holding time exceedance
J	Result is estimated
meq/100g	Milliequivalents per 100 grams
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
PQL	Practical quantitation limit

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 11
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Aluminum	2	11800	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cobalt	0.064	10.8	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Copper	0.2205	17.6	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Manganese	0.0131	488	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nickel	0.1295	15.5	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Potassium	2.079	1060	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Silicon	0.5289	530	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Titanium	0.1175	704	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6		R	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Vanadium	0.5535	50	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cobalt	0.064	16.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Copper	0.2205	22.1	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Magnesium	1.176	12500	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Manganese	0.0131	641	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nickel	0.1295	20.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Potassium	2.079	1360	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Silicon	0.5289	535	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Titanium	0.1175	758	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Vanadium	0.5535	57.5	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Zirconium	0.0874	177	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cobalt	0.064	11.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Copper	0.2205	19.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Magnesium	1.176	17500	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Manganese	0.0131	544	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Potassium	2.079	1500	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Silicon	0.5289	573	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Titanium	0.1175	702	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Vanadium	0.5535	54.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Aluminum	2	14700	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cobalt	0.064	12.5	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Copper	0.2205	22.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Magnesium	1.176	12900	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Manganese	0.0131	618	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nickel	0.1295	18.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Potassium	2.079	1490	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Silicon	0.5289	538	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Titanium	0.1175	958	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Vanadium	0.5535	59.1	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Zirconium	0.0874	175	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cobalt	0.064	14.6	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Copper	0.2205	23.8	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Magnesium	1.176	13400	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Manganese	0.0131	593	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nickel	0.1295	30	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Potassium	2.079	1820	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Silicon	0.5289	562	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Titanium	0.1175	779	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Vanadium	0.5535	57.3	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Zirconium	0.0874	176	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Aluminum	2	10900	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cobalt	0.064	10.6	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Magnesium	1.176	11700	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Manganese	0.0131	471	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nickel	0.1295	19	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Potassium	2.079	1210	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Silicon	0.5289	543	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Titanium	0.1175	749	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Zirconium	0.0874	178	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Copper	0.2205	18.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Manganese	0.0131	489	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Silicon	0.5289	631	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Titanium	0.1175	739	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Vanadium	0.5535	47.1	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Zirconium	0.0874	165	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Aluminum	2	6340	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Copper	0.2205	23.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Magnesium	1.176	10500	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Manganese	0.0131	282	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nickel	0.1295	27.8	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Potassium	2.079	1420	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Silicon	0.5289	409	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Titanium	0.1175	438	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Vanadium	0.5535	33.9	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Manganese	0.0131	481	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nickel	0.1295	15.3	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Vanadium	0.5535	43.9	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Aluminum	2	12500	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Copper	0.2205	19.8	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Magnesium	1.176	12700	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Manganese	0.0131	566	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nickel	0.1295	18	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Potassium	2.079	1180	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Silicon	0.5289	527	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Titanium	0.1175	701	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Zirconium	0.0874	164	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Aluminum	2	13400	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cobalt	0.064	11.9	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Magnesium	1.176	12200	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Manganese	0.0131	550	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Potassium	2.079	1540	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Silicon	0.5289	675	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Titanium	0.1175	936	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Vanadium	0.5535	55.3	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Zirconium	0.0874	168	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Aluminum	2	7240	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Magnesium	1.176	9830	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Potassium	2.079	1770	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Silicon	0.5289	335	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Titanium	0.1175	839	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Vanadium	0.5535	38.4	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Aluminum	2	10600	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cobalt	0.064	11.4	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Copper	0.2205	20.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Magnesium	1.176	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Manganese	0.0131	369	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nickel	0.1295	22.2	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Potassium	2.079	1750	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Silicon	0.5289	489	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Titanium	0.1175	515	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Vanadium	0.5535	42.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Zirconium	0.0874	179	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Aluminum	2	7130	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cobalt	0.064	8.7	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Magnesium	1.176	8470	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Manganese	0.0131	407	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nickel	0.1295	17.4	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Potassium	2.079	1530	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Silicon	0.5289	342	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Titanium	0.1175	659	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Vanadium	0.5535	33.5	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Zirconium	0.0874	154	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Aluminum	2	8730	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Magnesium	1.176	9600	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Manganese	0.0131	402	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nickel	0.1295	19.8	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Silicon	0.5289	375	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Copper	0.2205	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Magnesium	1.176	13700	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Manganese	0.0131	460	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nickel	0.1295	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Silicon	0.5289	519	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Titanium	0.1175	677	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Vanadium	0.5535	43.4	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Zirconium	0.0874	166	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Aluminum	2	11100	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Copper	0.2205	20.8	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Magnesium	1.176	11000	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Manganese	0.0131	380	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Potassium	2.079	2110	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Silicon	0.5289	476	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Titanium	0.1175	671	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Vanadium	0.5535	42.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Zirconium	0.0874	138	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Aluminum	2	12000	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Magnesium	1.176	12400	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Manganese	0.0131	499	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nickel	0.1295	19.1	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Silicon	0.5289	423	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Titanium	0.1175	674	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Vanadium	0.5535	44.4	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Aluminum	2	15300	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cobalt	0.064	11.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Magnesium	1.176	11600	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Manganese	0.0131	383	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Potassium	2.079	2340	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Silicon	0.5289	719	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Titanium	0.1175	1010	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Vanadium	0.5535	50.3	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Aluminum	2	8560	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cobalt	0.064	8.2	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Copper	0.2205	22.5	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Magnesium	1.176	8450	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Manganese	0.0131	327	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nickel	0.1295	14.7	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Potassium	2.079	1410	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Silicon	0.5289	449	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Titanium	0.1175	597	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Vanadium	0.5535	38.8	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Aluminum	2	10400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Barium	0.152	190	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Calcium	1.028	22700	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Iron	1.173	17400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Manganese	0.0131	445	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Phosphorus	1.913	1540	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Potassium	2.079	1800	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Silicon	0.5289	620	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Sodium	7.567	357	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Titanium	0.1175	864	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Vanadium	0.5535	46.1	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Aluminum	2	10200	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Barium	0.152	283	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Calcium	1.028	23000	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cobalt	0.064	13.2	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Iron	1.173	17200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Magnesium	1.176	10800	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Manganese	0.0131	766	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nickel	0.1295	19.6	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Phosphorus	1.913	1580	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Potassium	2.079	1680	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Silicon	0.5289	555	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sodium	7.567	399	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Titanium	0.1175	767	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Vanadium	0.5535	48.8	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Zirconium	0.0874	137	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Barium	0.152	264	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Calcium	1.028	35600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Copper	0.2205	21.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Iron	1.173	16600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Manganese	0.0131	556	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nickel	0.1295	22.7	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Phosphorus	1.913	1460	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Potassium	2.079	2080	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Silicon	0.5289	497	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Sodium	7.567	451	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Titanium	0.1175	879	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Vanadium	0.5535	48	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Zirconium	0.0874	151	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Aluminum	2	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Barium	0.152	154	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Calcium	1.028	17900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Copper	0.2205	21.7	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Iron	1.173	14900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Manganese	0.0131	465	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nickel	0.1295	22.1	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Phosphorus	1.913	1880	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Potassium	2.079	1300	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Silicon	0.5289	428	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Sodium	7.567	329	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Titanium	0.1175	858	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Vanadium	0.5535	56	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Zirconium	0.0874	171	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Barium	0.152	150	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Calcium	1.028	34200	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Cobalt	0.064	8.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Copper	0.2205	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Magnesium	1.176	11700	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Manganese	0.0131	387	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Nickel	0.1295	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Potassium	2.079	2350	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Titanium	0.1175	478	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Vanadium	0.5535	31.6	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Aluminum	2	11700	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Barium	0.152	213	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Calcium	1.028	38500	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Manganese	0.0131	553	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Nickel	0.1295	15.6	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Strontium	0.0735	321	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Titanium	0.1175	545	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Vanadium	0.5535	42.9	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zirconium	0.0874	139	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Barium	0.152	142	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Copper	0.2205	17.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Manganese	0.0131	351	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Potassium	2.079	879	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Strontium	0.0735	379	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Titanium	0.1175	533	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Vanadium	0.5535	45.6	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Aluminum	2	13800	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Barium	0.152	193	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Calcium	1.028	31400	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Copper	0.2205	19.2	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Magnesium	1.176	14600	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Manganese	0.0131	534	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Nickel	0.1295	19.4	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Potassium	2.079	2740	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Strontium	0.0735	163	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Titanium	0.1175	589	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Vanadium	0.5535	42.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zirconium	0.0874	120	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Barium	0.152	210	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Cobalt	0.064	10.3	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Manganese	0.0131	478	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Strontium	0.0735	347	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Titanium	0.1175	651	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Vanadium	0.5535	48	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zirconium	0.0874	135	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Barium	0.152	202	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Calcium	1.028	45100	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Copper	0.2205	16.1	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Magnesium	1.176	12700	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Manganese	0.0131	446	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Potassium	2.079	898	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Strontium	0.0735	411	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Titanium	0.1175	481	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Vanadium	0.5535	47.3	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Aluminum	2	12400	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Barium	0.152	218	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Calcium	1.028	33300	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Magnesium	1.176	13400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Manganese	0.0131	562	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Potassium	2.079	2400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Strontium	0.0735	200	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Titanium	0.1175	540	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Vanadium	0.5535	40.4	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Barium	0.152	204	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Calcium	5.14	65900	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Copper	0.2205	18.8	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Magnesium	1.176	12300	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Manganese	0.0131	559	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Nickel	0.1295	16.3	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Potassium	2.079	1160	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Strontium	0.0735	320	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Titanium	0.1175	590	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Vanadium	0.5535	47.6	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Barium	0.152	169	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Calcium	1.028	47000	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Magnesium	1.176	13000	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Manganese	0.0131	432	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Nickel	0.1295	17.9	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Potassium	2.079	792	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Strontium	0.0735	394	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Titanium	0.1175	503	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Vanadium	0.5535	46.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Barium	0.152	191	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Cobalt	0.064	12	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Copper	0.2205	21.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Potassium	2.079	956	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Strontium	0.0735	488	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Titanium	0.1175	650	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Vanadium	0.5535	59.5	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Aluminum	2	8080	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Barium	0.152	119	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Calcium	1.028	15800	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Cobalt	0.064	10.4	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Manganese	0.0131	414	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Nickel	0.1295	20.6	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Potassium	2.079	1890	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Strontium	0.0735	126	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Titanium	0.1175	683	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zirconium	0.0874	141	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Aluminum	2	6800	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Barium	0.152	140	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Calcium	1.028	17100	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Copper	0.2205	20.3	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Magnesium	1.176	8200	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Strontium	0.0735	135	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Vanadium	0.5535	43.6	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zirconium	0.0874	148	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Aluminum	2	8440	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Barium	0.152	154	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Calcium	1.028	32300	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Manganese	0.0131	382	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Nickel	0.1295	20.2	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Strontium	0.0735	211	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Titanium	0.1175	657	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Vanadium	0.5535	40.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Aluminum	2	6360	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Barium	0.152	117	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Calcium	1.028	14600	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Cobalt	0.064	9	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Copper	0.2205	18.5	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Magnesium	1.176	8370	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Manganese	0.0131	438	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Nickel	0.1295	15.8	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Strontium	0.0735	97.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Titanium	0.1175	509	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Vanadium	0.5535	34.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Aluminum	2	8100	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Barium	0.152	254	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Calcium	1.028	28700	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Cobalt	0.064	14.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Magnesium	1.176	10400	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Manganese	0.0131	863	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Nickel	0.1295	19.7	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Strontium	0.0735	158	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Titanium	0.1175	600	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Vanadium	0.5535	41.6	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zirconium	0.0874	157	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Aluminum	2	7270	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Barium	0.152	203	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Calcium	1.028	21500	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Magnesium	1.176	9540	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Manganese	0.0131	605	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Nickel	0.1295	16	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Potassium	2.079	1140	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Strontium	0.0735	160	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Titanium	0.1175	473	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Vanadium	0.5535	33.4	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Aluminum	2	6820	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Barium	0.152	127	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Calcium	1.028	17600	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Magnesium	1.176	8590	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Manganese	0.0131	434	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Strontium	0.0735	119	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Titanium	0.1175	618	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Vanadium	0.5535	47	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Aluminum	2	8010	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Barium	0.152	118	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Calcium	1.028	19900	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Cobalt	0.064	9.1	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Magnesium	1.176	9440	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Manganese	0.0131	350	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Potassium	2.079	1480	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Titanium	0.1175	531	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Vanadium	0.5535	37	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Aluminum	2	8250	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Barium	0.152	139	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Calcium	1.028	28800	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Cobalt	0.064	9.2	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Copper	0.2205	20.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Magnesium	1.176	11500	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Manganese	0.0131	390	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Strontium	0.0735	177	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Titanium	0.1175	621	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Vanadium	0.5535	39.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zirconium	0.0874	142	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Barium	0.152	230	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Calcium	1.028	16600	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Copper	0.2205	16.6	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Magnesium	1.176	11400	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Manganese	0.0131	498	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Potassium	2.079	2760	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Strontium	0.0735	105	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Titanium	0.1175	550	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Vanadium	0.5535	36.1	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zirconium	0.0874	112	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Aluminum	2	8400	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Arsenic	0.1278	6.1	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Calcium	1.028	30000	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Lead	0.0506	10.9	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Magnesium	1.176	8240	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Vanadium	0.5535	41.1	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Aluminum	2	9880	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Arsenic	0.1278	3.3	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Calcium	1.028	22800	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Magnesium	1.176	10900	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Vanadium	0.5535	45.1	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Aluminum	2	13900	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Calcium	1.028	20400	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Lead	0.0506	11.5	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Magnesium	1.176	14200	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Calcium	1.028	27200	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Lead	0.0506	4.9	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Magnesium	1.176	5470	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Vanadium	0.5535	25.5	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Aluminum	2	5570	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Arsenic	0.1278	5.1	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Calcium	1.028	47300	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Lead	0.0506	4.5	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Vanadium	0.5535	30.5	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Aluminum	2	11400	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Arsenic	0.1278	5.3	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Calcium	1.028	24600	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Lead	0.0506	11.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Vanadium	0.5535	34.1	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Aluminum	2	6670	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Arsenic	0.1278	4.4	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Calcium	1.028	29600	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Lead	0.0506	6.2	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Magnesium	1.176	6370	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Vanadium	0.5535	33.5	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Aluminum	2	13100	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Arsenic	0.1278	7.2	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Lead	0.0506	10.1	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Vanadium	0.5535	41.9	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Aluminum	2	7190	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Arsenic	0.1278	5.2	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Calcium	5.14	82800	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Lead	0.0506	5.9	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Magnesium	1.176	9370	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Vanadium	0.5535	32.6	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Aluminum	2	9210	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Arsenic	0.1278	4.1	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Calcium	1.028	42500	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Magnesium	1.176	11000	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Arsenic	0.1278	6.4	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Lead	0.0506	12.2	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Vanadium	0.5535	36.7	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Aluminum	2	7890	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Arsenic	0.1278	5.6	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Calcium	5.14	71900	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Lead	0.0506	7.3	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Magnesium	1.176	10600	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Vanadium	0.5535	33.8	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Calcium	1.028	44600	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Lead	0.0506	6.3	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Vanadium	0.5535	51.8	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Aluminum	2	6980	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Arsenic	0.1278	4.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Calcium	1.028	19300	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Lead	0.0506	7.5	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Magnesium	1.176	7380	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Vanadium	0.5535	23.6	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Arsenic	0.1278	3	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Calcium	1.028	13500	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Lead	0.0506	6.6	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Magnesium	1.176	4690	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Vanadium	0.5535	30.8	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Aluminum	2	6420	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Calcium	1.028	20000	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Magnesium	1.176	5530	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Vanadium	0.5535	34.6	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Aluminum	2	9620	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Arsenic	0.1278	6.3	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Calcium	1.028	30200	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Lead	0.0506	9.2	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Magnesium	1.176	10000	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Vanadium	0.5535	36	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Aluminum	2	7650	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Arsenic	0.1278	3.6	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Calcium	1.028	13000	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Magnesium	1.176	5670	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Vanadium	0.5535	39.9	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Aluminum	2	6560	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Arsenic	0.1278	3.9	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Lead	0.0506	5.7	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Magnesium	1.176	5640	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Vanadium	0.5535	33.9	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Arsenic	0.1278	5.9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Calcium	1.028	30100	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Lead	0.0506	9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Vanadium	0.5535	34.2	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Cobalt	0.064	5.7	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Vanadium	0.5535	30.5	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Cobalt	0.064	7	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Manganese	0.0131	339	NE	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nickel	0.1295	12.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Vanadium	0.5535	36.6	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Manganese	0.0131	464	NE	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nickel	0.1295	17.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Vanadium	0.5535	40.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Cobalt	0.064	6.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Manganese	0.0131	304	NE	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nickel	0.1295	13.2	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Vanadium	0.5535	36.2	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Manganese	0.0131	468	NE	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nickel	0.1295	10.4	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Vanadium	0.5535	29	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Cobalt	0.064	4.8	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Manganese	0.0131	198	NE	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nickel	0.1295	9.7	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Vanadium	0.5535	28.1	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Cobalt	0.064	7.5	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Vanadium	0.5535	34.5	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nickel	0.1295	10.6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Vanadium	0.5535	34.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Cobalt	0.064	4.4	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Manganese	0.0131	191	NE	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nickel	0.1295	10.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Vanadium	0.5535	28.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Manganese	0.0131	495	NE	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Vanadium	0.5535	35.5	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Cobalt	0.064	6.2	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Manganese	0.0131	321	NE	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nickel	0.1295	11.6	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Vanadium	0.5535	31.1	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Cobalt	0.064	4.7	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Manganese	0.0131	169	NE	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nickel	0.1295	11.5	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Vanadium	0.5535	28.8	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Aluminum	2	5530	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Barium	0.152	424	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Magnesium	1.176	5450	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nickel	0.1295	11.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Potassium	2.079	1520	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Aluminum	2	5480	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Barium	0.152	436	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Cobalt	0.064	6.5	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Magnesium	1.176	4930	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Aluminum	2	6180	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Barium	0.152	697	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Cobalt	0.064	12.3	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Magnesium	1.176	5920	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nickel	0.1295	12.6	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Aluminum	2	8220	NE	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nickel	0.1295	17.8	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Aluminum	2	6520	NE	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Cobalt	0.064	7.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Magnesium	1.176	9410	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nickel	0.1295	13.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Potassium	2.079	982	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Aluminum	2	8470	NE	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Cobalt	0.064	7.9	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Magnesium	1.176	16600	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Potassium	2.079	1170	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Aluminum	2	3740	NE	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Cobalt	0.064	3.7	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Magnesium	1.176	5960	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nickel	0.1295	7.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Potassium	2.079	1160	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Aluminum	2	5230	NE	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Magnesium	1.176	5070	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nickel	0.1295	9.2	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Potassium	2.079	1720	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Cobalt	0.064	6.8	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Magnesium	1.176	14000	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Potassium	2.079	3150	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Aluminum	2	4130	NE	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Cobalt	0.064	3.9	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Magnesium	1.176	6680	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nickel	0.1295	8	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Aluminum	2	6300	NE	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Cobalt	0.064	9.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Magnesium	1.176	6650	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nickel	0.1295	13.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Aluminum	2	4840	NE	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Magnesium	1.176	5100	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nickel	0.1295	11.3	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Aluminum	2	6150	NE	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Magnesium	1.176	5240	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Aluminum	2	6240	NE	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Cobalt	0.064	6.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Magnesium	1.176	6880	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nickel	0.1295	12.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Cobalt	0.064	5.1	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Magnesium	1.176	4580	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Aluminum	2	6370	NE	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Cobalt	0.064	5.2	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Magnesium	1.176	5340	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nickel	0.1295	8.9	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Aluminum	2	7500	NE	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Magnesium	1.176	9190	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Potassium	2.079	1940	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Aluminum	2	5660	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Magnesium	1.176	7000	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Potassium	2.079	872	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Cobalt	0.064	8.9	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Potassium	2.079	918	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Aluminum	2	7820	NE	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Magnesium	1.176	8970	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nickel	0.1295	18.8	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Potassium	2.079	1870	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Vanadium	0.5535	29.2	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Zirconium	0.0874	135	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Vanadium	0.5535	36.9	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Zirconium	0.0874	129	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Zirconium	0.0874	140	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Vanadium	0.5535	21.8	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Vanadium	0.5535	38.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Zirconium	0.0874	109	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Vanadium	0.5535	36.4	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Zirconium	0.0874	117	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Vanadium	0.5535	40.3	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Zirconium	0.0874	103	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Zirconium	0.0874	118	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Vanadium	0.5535	38	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Zirconium	0.0874	116	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Zirconium	0.0874	86.1	E	J	j	mg/kg

Notes:

+ Result is possibly biased high
- Result is possibly biased low
* Laboratory qualification due to poor duplicate precision
b Qualified due to blank contamination
B Reported value is greater than the SQL, but less than the PQL
d Qualified due to poor duplicate precision
e Qualified due to matrix spike or laboratory control sample issues
E Estimated due to possible matrix interference
j Qualified because result is greater than the SQL, but less than the PQL

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 12
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35 J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 230	0.05	0.95 J	J	k	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 238	0.07	0.82 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91 J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 230	0.1	0.81 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 238	0.06	0.85 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46 J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 230	0.07	0.88 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 235	0.04	0.059 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 238	0.05	0.77 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59 J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 230	0.1	0.92 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 235	0.038	0.043 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 226	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 J	R	k, e	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 230	0.06	0.86 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 235	0.041	0.061 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 238	0.06	0.84 J	J	k	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817 J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817 J	J	k, n	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.925	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 226	0.143	0.925	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 230	0.1	0.92	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 235	0.096	0.101	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.124	0.877	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 226	0.124	0.877	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11	J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 230	0.07	0.91	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 235	0.063	0.101	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.214	0.595	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 226	0.214	0.595	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82	J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 230	0.08	0.82	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 238	0.09	0.81	J	J	k	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 230	0.05	0.98	J	J	k	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78	J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 230	0.1	0.77	J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 230	0.1	0.93	J	J	k	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5	J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 235	0.045	0.083	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.136	0.879	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 226	0.136	0.879	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86	J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 235	0.042	0.124	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Radium 228	0.846	1.92	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 230	0.08	0.93	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 235	0.048	0.054	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0975	0.792	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 226	0.0975	0.792	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 228	0.847	1.7	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 230	0.08	0.92	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 238	0.1	0.65	J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 228	0.85	1.44	J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 235	0.1	0.12	J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Radium 228	0.76	1.73	J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 235	0.077	0.087	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.784	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 226	0.188	0.784	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 228	0.705	1.66	J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 238	0.08	0.93 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 228	0.649	1.97 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 235	0.036	0.054 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 238	0.05	0.69 J	J	k	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 238	0.05	0.78 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 226	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 228	0.621	1.37 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 230	0.09	0.75 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 238	0.07	0.87 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Radium 226	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 228	0.821	1.69 J	J	k	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 228	0.72	1.74 J	J	k	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Radium 228	0.66	1.85 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 226	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 228	0.577	1.86 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 226	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 228	0.556	1.97 J	J	k	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 228	0.552	1.15 J	J	k	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Radium 228	0.515	1.68 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Radium 226	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Radium 226	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 226	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 228	0.705	1.95 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 226	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 228	0.627	1.3 J	J	k	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Radium 228	0.706	1.93 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 226	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 228	0.415	1.67 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 226	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 228	0.492	1.49 J	J	k	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Radium 228	0.492	1.42 J	J	k	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 238	0.08	0.77 J	J	k	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium 235	0.05	0.12 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Radium 228	0.533	1.67 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Uranium 235	0.039	0.043 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 226	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 228	0.548	1.28 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 235	0.037	0.042	J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 238	0.05	0.78	J	J	k	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 228	0.583	1.83	J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Radium 228	0.557	1.41	J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	0.1	0.92	J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Radium 228	0.624	1.3	J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Uranium 235	0.068	0.093	J	J	k	pCi/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium 235	0.038	0.126	J	J	k	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Uranium 235	0.066	0.089	J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 228	0.62	1.34	J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 235	0.03	0.21	J	J	k	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 235	0.051	0.076	J	J	k	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	0.965	J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Radium 226	0.156	0.965	J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 238	0.09	0.99	J	J	k	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 228	0.572	1.91	J	J	k	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Radium 228	0.636	1.61	J	J	k	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 238	0.07	0.74	J	J	k	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 228	0.49	1.96	J	J	k	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 238	0.05	0.98	J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 228	0.489	1.75	J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium 235	0.042	0.077	J	J	k	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 230	0.09	0.99	J	J	k	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Radium 228	0.443	1.85	J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Uranium 235	0.094	0.099 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 235	0.072	0.098 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 238	0.04	0.83 J	J	k	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 238	0.08	0.98 J	J	k	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 230	0.1	0.72 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 235	0.049	0.054 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 238	0.08	0.59 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 226	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Thorium 230	0.07	0.87 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 238	0.06	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 226	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 230	0.1	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 238	0.09	0.76 J	J	k	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 230	0.06	0.8 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 226	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 J	R	k, e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 238	0.09	0.88 J	J	k	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Uranium 235	0.04	0.17 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.835	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 226	0.188	0.835	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8	J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 235	0.07	0.13	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 238	0.12	0.94	J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 230	0.06	0.84	J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 238	0.08	0.82	J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71	J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 230	0.07	0.78	J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 238	0.08	0.58	J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Thorium 230	0.09	0.78	J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 238	0.12	0.57	J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 235	0.068	0.076	J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 238	0.03	0.64	J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926	J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926	J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52	J	R	k, e	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thorium 230	0.05	0.82 J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 238	0.08	0.81 J	J	k	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 238	0.03	0.89 J	J	k	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 235	0.036	0.053 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 230	0.08	0.97 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 235	0.033	0.037 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 238	0.03	0.94 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 230	0.03	0.73 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 238	0.04	0.97 J	J	k	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	0.06	0.98 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 230	0.05	0.94 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 238	0.07	0.96 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 238	0.06	0.89 J	J	k	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 235	0.041	0.06 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 235	0.039	0.058 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 238	0.06	0.95 J	J	k	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68 J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Uranium 235	0.1	0.18 J	J	k	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2 J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55 J	U	k, e, b	pCi/g

Notes:

+	Result is possibly biased high	LCS	Laboratory control sample
-	Result is possibly biased low	MDC	Minimum detectable concentration
b	Qualified due to blank contamination	MS	Matrix spike
e	Qualified due to poor MS or LCS	n	Qualified due to poor tracer yield
J	Result is estimated	pCi/g	PicoCurie per gram
k	Qualified because result is greater than the MDC but less than the required reporting limit	RL	Reporting limit
		SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 13
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 232	0.86	1.24	X	l	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 232	0.84	1.85	X	l	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 232	0.86	1.69	X	l	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 232	0.73	1.61	X	l	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 232	0.96	1.85	X	l	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Thorium 232	0.86	1.32	X	l	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 232	0.83	1.86	X	l	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 232	0.73	1.29	X	l	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 232	0.86	1.99	X	l	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 232	0.82	1.43	X	l	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 232	1	1.22	X	l	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 232	0.73	1.29	X	l	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 232	1.2	1.98	X	l	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 232	0.59	2.36	X	l	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 232	0.92	1.97	X	l	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 232	0.83	1.16	X	l	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 232	0.77	1.91	X	l	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 232	0.71	1.93	X	l	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thorium 232	1	1.17	X	l	pCi/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Thorium 232	0.52	2.34	X	l	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 232	0.72	2.42	X	l	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Thorium 232	0.73	1.43	X	l	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 232	0.89	1.2	X	l	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Thorium 232	1	1.65	X	l	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thorium 232	1.2	2.16	X	l	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Thorium 232	0.87	1.66	X	l	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Thorium 232	0.97	1.53	X	l	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thorium 232	0.81	1.84	X	l	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Thorium 232	0.73	1.47	X	l	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Thorium 232	0.91	1.77	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Thorium 232	0.97	1.04	X	l	pCi/g
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Thorium 232	0.93	1.27	X	l	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thorium 232	0.77	1.53	X	l	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thorium 232	1.2	2.09	X	l	pCi/g
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thorium 232	0.58	1.93	X	l	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thorium 232	0.73	2.3	X	l	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thorium 232	0.79	2.1	X	l	pCi/g
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thorium 232	0.92	1.14	X	l	pCi/g
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thorium 232	0.69	1.45	X	l	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thorium 232	0.93	1.65	X	l	pCi/g
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thorium 232	1	2.32	X	l	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thorium 232	0.69	1.86	X	l	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Thorium 232	0.85	1.25	X	l	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thorium 232	0.93	2.08	X	l	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thorium 232	0.77	1.38	X	l	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thorium 232	0.73	1.74	X	l	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 232	0.66	1.17	X	l	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 232	0.77	1.65	X	l	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 232	0.79	1.41	X	l	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thorium 232	1.1	1.93	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thorium 232	0.94	1.64	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	1.2	1.3	X	l	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 232	0.91	1.37	X	l	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thorium 232	0.96	1.69	X	l	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 232	0.93	1.12	X	l	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 238	1.2	1.8	X	l	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 232	0.86	1.8	X	l	pCi/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thorium 232	1.1	1.45	X	l	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thorium 232	0.57	1.31	X	l	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thorium 232	0.86	1.87	X	l	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thorium 232	0.69	2.38	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Thorium 232	0.96	1.92	X	l	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thorium 232	0.6	1.52	X	l	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thorium 232	0.87	1.4	X	l	pCi/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thorium 232	0.67	2.48	X	l	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thorium 232	1.2	2.26	X	l	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thorium 232	0.99	2.2	X	l	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thorium 232	0.94	2.1	X	l	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 232	0.97	2.07	X	l	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 232	0.85	1.69	X	l	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 232	1.2	2.38	X	l	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 232	1	1.84	X	l	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 232	0.53	2.15	X	l	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thorium 232	0.75	1.84	X	l	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 232	1.1	1.6	X	l	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 232	0.83	1.18	X	l	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 232	0.82	1.47	X	l	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 232	0.96	2.08	X	l	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 232	0.73	1.28	X	l	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thorium 232	0.73	1.43	X	l	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thorium 232	1	1.68	X	l	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thorium 232	1.1	1.74	X	l	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thorium 232	0.9	1.23	X	l	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 232	1.1	1.65	X	l	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 232	0.74	1.09	X	l	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 232	0.83	1.69	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 232	0.71	1.56	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12B-0-0.5	Soil	Thorium 232	0.87	0.9	X	l	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 232	0.72	1.57	X	l	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Thorium 232	0.77	1.5	X	l	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 232	1.1	1.46	X	l	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 232	0.59	2.43	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 232	0.91	1.83		X	l	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thorium 232	0.7	1.98		X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 228	140	-10	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	71	0	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	70	30	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	1.2	2.61		X	l	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 232	0.86	1.51		X	l	pCi/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thorium 232	0.67	1.82		X	l	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 232	1.1	2.42		X	l	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 232	1	2.16		X	l	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 232	0.98	1.26		X	l	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Thorium 232	0.6	2.11		X	l	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Thorium 232	0.83	1.66		X	l	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Thorium 232	0.62	1.73		X	l	pCi/g

Notes:

mg/kg Milligram per kilogram
MDC Minimum detectable concentration
pCi/g PicoCurie per gram
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 14
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]	Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19 ±0.25	R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19 ±0.28	R	e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 ±0.28 J	R	k, e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15 ±0.38	R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67 ±0.39	R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42 ±0.55	R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1 ±0.3	R	e	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6	R	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 ±0.24 J	R	k, e	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7	R	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2 ±0.35	R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12 ±0.29	R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21 ±0.28	R	e	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51 ±0.29	R	e	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37 ±0.31	R	e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71 ±0.25 J	R	k, e	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76 ±0.36	R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37 ±0.28	R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13 ±0.34	R	e	pCi/g

Notes:

+ Result is possibly biased high
- Result is possibly biased low
e Qualified due to matrix spike or laboratory control sample issues
h Qualified because holding time was exceeded
k Qualified because result is >MDC, but less than the required reporting limit

TABLE 14 (CONTINUED)
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

j	Qualified due to other stable chemistry issues
J	Result is estimated
MDC	Minimum detectable concentration
mg/kg	Milligram per kilogram
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1	The RL represents the MDC for radionuclides and SQL for stable chemistries.
2	The radionuclide result includes the 2-sigma error.

APPENDIX A

BACKGROUND SOIL ANALYTICAL DATABASE
(Contained on compact disk)

ATTACHMENT A

LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS

March 7, 2006

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

Ranajit Sahu
Basic Remediation Corporation
875 W. Warm Springs Rd
Henderson, NV 89015

RE: Summary of BRC Ra-226 Background Samples Apparent Low Bias

Dear Mr. Sahu:

STL St. Louis conducted a study, comparing initial STL St. Louis analytical results performed in the spring / summer timeframe of 2005 to reanalysis results by both STL St. Louis using EPA 903.0 and STL Richland Laboratory using EPA 903.1.

A reanalysis batch performed by STL St. Louis was performed in the same manner as the original analysis and confirmed the initial results. In contrast, the reanalysis of the same samples by STL Richland using a Ba-133 tracer combined with method 903.1 radon emanation resulted in activities which were comparable to earlier sampling events prior to the spring 2005 event.

To determine if this bias was caused by utilizing barium carrier rather than Ba-133 radiometric tracer recovery, another set of samples was analyzed by STL St. Louis utilizing both gravimetric yield determination and radiometric determination. The results of this study demonstrated that there are differences in sample results dependant on whether or not a radiometric tracer was utilized. Our results obtained, using the Ba 133 tracer, were comparable to the results previously reported by STL Richland and site historical data.

In conclusion, it does appear that the spring results provided are low biased. It is our technical opinion, that the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer. STL St. Louis will employ Ba 133 tracer for future Ra 226 analysis for BRC effective immediately.

Sincerely,

William Deckelmann
STL St. Louis
Laboratory Director

Joel Kempema
STL St. Louis
Radiochemistry Technical Director

Elaine Wild
STL St. Louis QA Manager

cc: Melania Harris, STL St. Louis Project Manager

APPENDIX D-2

DATA VALIDATION MEMORANDUM FOR ENVIRON SOIL BACKGROUND DATA

ndep
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Kenny C. Guinn, Governor
Allen Biaggi, Director
Leo M. Drozdoff, P.E., Administrator

April 20, 2006

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Data Validation Memorandum on the Environ Background Data Set
NDEP Facility ID# H-000688, H-000537

Dear Mr. Paris and Mr. Wilkinson:

Attached is a memorandum regarding data validation of the background data collected by Environ for the City of Henderson. BRC and TIMET are in the process of evaluating this data for inclusion into their background data set and the attached information is needed for that evaluation.

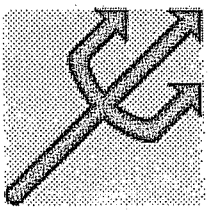
Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850x247.

Sincerely,

Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s

cc: Jim Najima, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Tronox, PO Box 55, Henderson, Nevada 89009
Keith Bailey, Tronox, Inc, PO Box 268859, Oklahoma City, Oklahoma 73126-8859
Sally Bilodeau, ENSR, 1220 Avenida Acaso, Camarillo, CA 93012-8727
Lee Erickson, Stauffer Management Company, 400 Ridge Rd, Golden, CO 80403
Chris Sylvia, Pioneer Americas LLC, PO Box 86, Henderson, Nevada 89009
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island, WA 98110
Jon Erskine, Northgate Environmental Management, Inc., 300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
Karleen O'Connor, Cox Castle Nicholson, 555 Montgomery Street, Suite 1500, San Francisco, CA 94111
Brian Walsh, Centex Homes, 3606 North Rancho Drive, Suite 102, Las Vegas, NV 89130
Michael Ford, Bryan Cave, One Renaissance Square, Two North Central Avenue, Suite 2200, Phoenix, AZ 85004
Vincent Aiello, Beazer Homes, 4670 South Fort Apache, Suite 200, Las Vegas, NV
David Gratson, Neptune and Company, 1505 15th Street, Suite B, Los Alamos, NM 87544



NEPTUNE AND COMPANY, INC.
1505 15th Street
Suite B
Los Alamos NM
Phone 505-662-2121
Fax 505-662-0500

MEMORANDUM

From: David Gratson

To: Brian Rakvica

Date: 17 April 2006

Subject: Background Data – ENVIRON Dataset

Data validation was performed soil samples collected at the WRF expansion site by ENVIRON International Corporation. The samples were collected in April 2002 at eight locations and two different depths. These data are being evaluated for inclusion into the background data set as part of the BMI complex investigation.

STL St. Louis analyzed the eighteen samples, 16 native sample plus a blank and duplicate, and the laboratory report was obtained from Mr. Mark Hawley, of ENVIRON. The dioxin/furan analysis was performed at the STL - West Sacramento laboratory. The file from STL was entitled F2D050166-AR-REV.pdf. STL - St. Louis reported the results in a Level II report format with no raw data. The report included a case narrative, summary results, and the results of quality control samples (blanks, LCS, matrix spikes and duplicates). The data validation reviewed the case narrative, QC samples, and individual sample information (e.g. surrogate recoveries) for quality control issues.

Specific Comments: Data validation was performed in accordance with EPA guidance including USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review. The radionuclide data was reviewed based on professional judgment. This data validation was performed on the results reported from STL St. Louis, Lot # F2D050166 dated September 10, 2002 provided at a Level II data report. Instrument calibration, raw results, and internal standards were not included in the report and therefore not reviewed. The laboratory report also did not provide details on which gamma energies are used for the individual radioisotopes nor is there a description of the use of back calculation from daughter/parents. The samples that were reviewed for validity are included in Table 1. All soil samples were collected on 4/3/2002 and analyzed for the parameters shown in Table 2. All samples were analyzed by STL - St. Louis with the exception of the dioxin/furan analysis.

Table 1. Samples included in Report

Samples
BG01-SS01
BG01-SS02
BG02-SS01
BG02-SS02
BG03-SS01
BG03-SS11
BG03-SS02
BG04-SS01
BG04-SS02
BG05-SS01
BG05-SS02
BG06-SS01
BG06-SS02
BG07-SS01
BG07-SS02
BG08-SS01
BG08-SS02
040402- WBO1 (aqueous blank)

Table 2. Analyses Peformed.

Analyses
Dioxins/Furans via EPA Method 8290 Analyzed at STL West Sacramento
Perchlorate via EPA Method 314.0
Mercury via EPA Method 7471/7470
Metals via EPA Method 6010
Metals via EPA Method 6020
Hexavalent Chromium via EPA Method 7196.
Gamma Spectroscopy via method HASL 300 Mod including Ra-226
Radium 226 (total alpha radium) via EPA Method 9315 Mod.
Radium 228 via EPA Method 9320 mod.
Isotopic Thorium via method NAS NS-3004 Mod.
Isotopic Uranium via method NAS NS-3050 Mod.
Percent Moisture via EPA method 160.3

1. **Cooler Temperatures.** All three coolers were received at a temperature that exceeded the specified temperature by several degrees (9-16 °C). Due to the analyses performed this temperature deviation should not affect data quality.
2. **Holding Times. Hexavalent Chromium.** The holding time between sample collection and extraction and analysis was met for all samples and analyses with the exception of the hexavalent chromium. The samples were extracted on 7/11/2002 and the extracts analyzed on 7/15/2002. Method 7196 specifies a holding time for extracts of 24 hours and this was exceeded by approximately 72 hours. 7196 does not specify a holding time prior to extraction but the EPA they have reported that the soils samples are stable for at least 30 days. Generally, a 30 day holding time for soil samples is specified in sampling plans. Hexavalent chromium was not detected in any sample, with reporting limits of approximately 0.40 mg/kg for the soil samples. Due to the time between extraction and analysis and the potential for false negatives, it is recommended that the results for hexavalent chromium in this study be used with caution. False negatives is also an issue since the soil samples were (presumably) not extracted using an alkaline digestion such as EPA Method 3060. These data should not be used and are rejected due to the severe holding time exceedance.

3. **Matrix Spike Recoveries – Metals.** Poor spike recovery was observed in the matrix for several of the metals analyzed with both EPA Method 6010 and Method 6020. The differences between the recovery and the criteria for manganese (Method 6020), aluminum (Method 6010) and iron (Method 6010) were especially large. The Case Narrative states that the concentration in the original sample for these three analytes was greater than 4 times the spike amount making recovery ineffective. The relative concentration of the spike to the native sample could not be verified; however the LCS recovery did meet the requirements for these analytes. These results should be used with caution but are not rejected due to the assumed spike to native concentration ratio affect on recovery.
4. **Gamma Spectroscopy, Radium 224.** The QC samples for Gamma Spectroscopy met the method requirements. However, the activity of Ra-224 in the samples generally appears high and this radionuclide is not included in the QC sample spikes. It is unclear how the activity was calculated. The activity could have been calculated either directly from the photopeak for Ra-224 or back calculated from another radionuclide such as Pb-212. It is not recommended that Radium 224 be reported directly from its photopeak with Gamma spectroscopy due to interference from other radionuclides. Without additional information on how Ra-224 was calculated these data should be used with caution and potentially rejected based on evaluation with other background levels. The data is not rejected purely due to analytical considerations. The NDEP recommends that this data be recalculated or rejected.
5. **Radium 226 and 228.** The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommends that this data be reevaluated or rejected.

APPENDIX E

STATISTICAL SUMMARY FOR BRC/TIMET DATA

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples (Table E-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 0-Foot Soil Samples from BRC/TIMET Background Study (Table E-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 5-Foot Soil Samples from BRC/TIMET Background Study (Table E-3)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 10-Foot Soil Samples from BRC/TIMET Background Study (Table E-4)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 5 and 10-Foot Soil Samples from BRC/TIMET Background Study (Table E-5)

RPDs for BRC/TIMET Field Split Samples (Table E-6)

Correlation Coefficients for Alkaline and Alkaline-Earth Metals (Table E-7)

Correlation Coefficients for Radionuclides in the Thorium-232 Decay Chain (Table E-8)

Correlation Coefficients for Radionuclides in the Uranium-238 Decay Chain (Table E-9)

Table E-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	104	100	--	--	--	--	--	--	3,740	6,530	8,050	8,720	11,200	15,300
	Antimony	104	47	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.15	0.22	0.239	0.29	0.5
	Arsenic	104	100	--	--	--	--	--	--	2.5	3.5	4.05	4.3	5.2	7.2
	Barium	104	100	--	--	--	--	--	--	73	141	177	207	219	836
	Beryllium	104	100	--	--	--	--	--	--	0.16	0.463	0.555	0.585	0.72	0.89
	Boron	104	33	3.2	3.2	3.65	3.79	4.3	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	104	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	104	100	--	--	--	--	--	--	8,160	17,400	23,700	28,100	35,500	82,800
	Chloride	104	69	0.25	0.79	1.1	1.29	1.6	6.2	1.2	6.48	33.6	170	248	1110
	Chromium	104	100	--	--	--	--	--	--	2.6	7.03	9.05	9.11	11.2	16.7
	Chromium Hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	104	100	--	--	--	--	--	--	3.7	6.85	8.8	8.62	9.98	16.3
	Copper	104	100	--	--	--	--	--	--	10.2	15.2	18.2	18.1	20.4	30.5
	Fluoride	104	13	0.051	0.051	0.051	0.325	0.55	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	104	100	--	--	--	--	--	--	5,410	10,600	13,200	13,000	15,500	19,700
	Lead	104	100	--	--	--	--	--	--	3	6.23	7.3	8.55	9.55	35.1
	Lithium	104	100	--	--	--	--	--	--	7.5	10.8	12.8	13.8	16.4	26.5
	Magnesium	104	100	--	--	--	--	--	--	4,580	7,430	9,920	9,900	12,300	17,500
	Manganese	104	100	--	--	--	--	--	--	151	339	414	423	494	1090
	Mercury	104	74	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.017	0.0221	0.027	0.11
	Molybdenum	104	100	--	--	--	--	--	--	0.3	0.42	0.51	0.585	0.675	2
	Nickel	104	100	--	--	--	--	--	--	7.9	12.7	15.9	15.8	18.1	30
	Niobium	104	0	1.02	1.02	1.3	1.42	1.68	2.8	--	--	--	--	--	--
	Nitrate	104	87	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.49	0.995	8.75	5.03	102
	Nitrite	104	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	104	100	--	--	--	--	--	--	0.14	0.283	0.4	0.462	0.55	1.5
	Platinum	104	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosphorus	104	100	--	--	--	--	--	--	636	1,200	1,460	1,420	1,650	2,010
	Potassium	104	100	--	--	--	--	--	--	625	1,220	1,540	1,730	2,070	3,890
	Selenium	104	38	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.273	0.315	0.335	0.37	0.6
	Silicon	104	100	--	--	--	--	--	--	335	562	720	981	1,080	4,150
	Silver	104	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	104	100	--	--	--	--	--	--	111	203	452	486	690	1,320
	Strontium	104	100	--	--	--	--	--	--	69	134	186	223	258	808
	Sulfate	104	78	0.612	1.4	2.7	2.46	3.3	4.4	2.1	12.7	49.2	230	145	4130
	Thallium	104	25	0.2	0.438	0.543	0.565	0.638	1.1	1	1.1	1.35	1.37	1.53	1.8
	Thorium	0		--	--	--	--	--	--	--	--	--	--	--	--
	Tin	104	99	0.187	--	0.187	0.187	--	0.187	0.2	0.4	0.49	0.48	0.56	0.8
	Titanium	104	100	--	--	--	--	--	--	200	433	531	534	649	1,010
	Tungsten	104	0	0.49	0.883	1.05	1.18	1.5	2.5	--	--	--	--	--	--
	Uranium	103	100	--	--	--	--	--	--	0.43	0.82	0.94	1	1.1	2.7
	Vanadium	104	100	--	--	--	--	--	--	19.2	31.8	36.7	37.7	44.8	59.1
	Zinc	104	100	--	--	--	--	--	--	15.4	28	35.9	36.8	42.8	121
	Zirconium	104	100	--	--	--	--	--	--	60.1	111	125	126	145	179

Table E-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Actinium-228	104	100	--	--	--	--	--	--	1.17	1.56	1.78	1.84	2.05	3.4
	Bismuth-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Bismuth 212	104	62	0.29	0.6	0.695	0.749	0.9	1.22	0.71	0.91	1.12	1.18	1.41	1.82
	Bismuth-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Cobalt-57	104	0	-0.045	-0.00975	0.00065	0.0000135	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	104	0	-0.073	-0.0178	0.003	0.00151	0.0223	0.082	--	--	--	--	--	--
	Lead-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Lead-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Lead-212	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Lead-214	104	100	--	--	--	--	--	--	0.61	0.833	0.955	0.986	1.1	1.72
	Polonium-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	104	62	0.19	0.383	0.45	0.48	0.58	0.78	0.46	0.58	0.72	0.753	0.898	1.17
	Polonium-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Polonium-215	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Polonium-216	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Polonium-218	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Potassium-40	104	100	--	--	--	--	--	--	17.8	22.6	24.2	24.7	26.2	35
	Protactinium-234	104	0	-0.34	-0.14	-0.08	-0.0784	-0.0125	0.13	--	--	--	--	--	--
	Radium-223	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Radium-224	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Radium 226	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Radium 228	84	81	0.946	1.38	1.57	1.58	1.85	2	1.15	1.73	2.04	1.99	2.21	2.94
	Thallium-207	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thallium-208	104	100	--	--	--	--	--	--	0.37	0.48	0.56	0.55	0.61	0.72
	Thorium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thorium-228	104	100	--	--	--	--	--	--	1.15	1.5	1.74	1.71	1.91	2.28
	Thorium-230	104	100	--	--	--	--	--	--	0.66	0.98	1.2	1.27	1.46	3.01
	Thorium-231	104	11	0	0.0405	0.058	0.0613	0.085	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	104	100	--	--	--	--	--	--	1.05	1.42	1.58	1.63	1.84	2.23
	Thorium-234	104	62	-0.53	0.46	0.76	0.673	0.968	1.39	1.11	1.38	1.6	1.64	1.84	2.5
	Uranium 233/234	104	43	0.47	0.79	0.9	0.903	1.02	1.17	0.7	1.16	1.25	1.5	1.87	2.84
	Uranium 235	104	43	0	0.03	0.048	0.0474	0.064	0.11	0.037	0.0565	0.087	0.0912	0.12	0.21
	Uranium-238	104	100	--	--	--	--	--	--	0.57	0.91	1.04	1.14	1.3	2.37

Notes:

mg/kg Milligram per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g Picocurie per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table E-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	37	100	--	--	--	--	--	--	5,530	7,060	9,620	9,610	11,900	13,900
	Antimony	37	70	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.2	0.245	0.278	0.365	0.5
	Arsenic	37	100	--	--	--	--	--	--	2.5	3.15	4.2	4.34	5.4	7.2
	Barium	37	100	--	--	--	--	--	--	90.4	144	171	200	217	604
	Beryllium	37	100	--	--	--	--	--	--	0.16	0.465	0.66	0.629	0.79	0.89
	Boron	37	43	3.2	3.2	3.2	3.6	3.9	4.9	5.2	5.73	6.1	6.96	8.1	11.6
	Cadmium	37	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	37	100	--	--	--	--	--	--	10,900	16,000	19,500	21,600	26,200	43,200
	Chloride	37	35	0.25	0.775	0.985	1.06	1.48	1.8	1.2	1.65	4.1	42.8	28.2	252
	Chromium	37	100	--	--	--	--	--	--	3.6	7.85	11.3	10.8	13.4	16.7
	Chromium Hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	37	100	--	--	--	--	--	--	5.4	8.15	9.3	9.05	9.8	14.6
	Copper	37	100	--	--	--	--	--	--	13.7	17.4	18.7	19.2	20.7	25.9
	Fluoride	37	5	0.051	0.051	0.051	0.114	0.051	0.61	0.37	--	0.735	0.735	--	1.1
	Iron	37	100	--	--	--	--	--	--	9,030	12,300	14,500	14,400	16,700	19,700
	Lead	37	100	--	--	--	--	--	--	6	8.55	10.3	11.8	12.1	35.1
	Lithium	37	100	--	--	--	--	--	--	7.5	9.85	12.4	13.7	17.8	23.9
	Magnesium	37	100	--	--	--	--	--	--	5,450	8,910	10,200	10,700	12,600	17,500
	Manganese	37	100	--	--	--	--	--	--	263	406	455	478	517	1090
	Mercury	37	86	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0091	0.0143	0.021	0.024	0.0328	0.082
	Molybdenum	37	100	--	--	--	--	--	--	0.32	0.405	0.51	0.564	0.725	1.1
	Nickel	37	100	--	--	--	--	--	--	11.4	15.5	17.1	17.6	18.9	30
	Niobium	37	0	1.02	1.06	1.3	1.52	1.8	2.8	--	--	--	--	--	--
	Nitrate	37	62	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.26	0.45	3.73	1.5	53.4
	Nitrite	37	14	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	37	100	--	--	--	--	--	--	0.19	0.245	0.29	0.355	0.375	1.5
	Platinum	37	3	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.082	--	0.082	0.082	--	0.082
	Phosphorus	37	100	--	--	--	--	--	--	636	1,300	1,520	1,470	1,630	1,990
	Potassium	37	100	--	--	--	--	--	--	1,240	1,600	1,840	2,240	2,870	3,890
	Selenium	37	59	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.285	0.32	0.346	0.37	0.6
	Silicon	37	100	--	--	--	--	--	--	335	597	844	1,390	1,900	4,150
	Silver	37	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	37	100	--	--	--	--	--	--	111	146	166	248	323	693
	Strontium	37	100	--	--	--	--	--	--	86.8	119	143	168	170	808
	Sulfate	37	46	0.612	1.25	2.45	2.35	3.25	4.4	2.1	3.95	15.9	124	120	857
	Thallium	37	32	0.2	0.52	0.59	0.61	0.745	1	1	1.1	1.35	1.33	1.5	1.7
	Tin	37	100	--	--	--	--	--	--	0.28	0.505	0.55	0.551	0.62	0.8
	Titanium	37	100	--	--	--	--	--	--	244	475	558	569	666	936
	Tungsten	37	0	0.49	0.875	1	1.13	1.4	2.5	--	--	--	--	--	--
	Uranium	37	100	--	--	--	--	--	--	0.43	0.795	0.89	0.913	1	1.8
	Vanadium	37	100	--	--	--	--	--	--	23.2	33.7	36.1	38.3	43.9	57.3
	Zinc	37	100	--	--	--	--	--	--	24.8	35.5	42.2	44.3	48.8	121
	Zirconium	37	100	--	--	--	--	--	--	60.1	115	123	125	141	176

Table E-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Actinium-228	37	100	--	--	--	--	--	--	1.17	1.56	1.79	1.82	2.05	2.53
	Bismuth-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Bismuth-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Bismuth 212	37	59	0.29	0.6	0.7	0.763	0.93	1.13	0.71	0.845	1.01	1.11	1.37	1.82
	Bismuth-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Cobalt-57	37	0	-0.031	-0.009	0.007	0.00249	0.0135	0.03	--	--	--	--	--	--
	Cobalt-60	37	0	-0.073	-0.025	-0.004	-0.00768	0.0115	0.044	--	--	--	--	--	--
	Lead-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Lead-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Lead-212	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Lead-214	37	100	--	--	--	--	--	--	0.75	0.835	0.93	0.924	0.98	1.19
	Polonium-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Polonium-212	37	59	0.19	0.38	0.45	0.489	0.6	0.73	0.46	0.538	0.65	0.709	0.878	1.16
	Polonium-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Polonium-215	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Polonium-216	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Polonium-218	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Potassium-40	37	100	--	--	--	--	--	--	20.3	22.7	24.1	24.5	25.3	31
	Protactinium-234	37	0	-0.34	-0.155	-0.11	-0.0942	-0.025	0.12	--	--	--	--	--	--
	Radium-223	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Radium-224	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Radium 226	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Radium 228	30	77	1.11	1.34	1.78	1.61	1.86	1.93	1.28	1.85	2.03	2.03	2.34	2.94
	Thallium-207	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thallium-208	37	100	--	--	--	--	--	--	0.41	0.495	0.57	0.567	0.625	0.72
	Thorium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thorium-228	37	100	--	--	--	--	--	--	1.15	1.64	1.8	1.78	1.93	2.28
	Thorium-230	37	100	--	--	--	--	--	--	0.72	0.925	1.15	1.11	1.26	1.7
	Thorium-231	37	8	0	0.0375	0.059	0.0603	0.077	0.13	0.054	0.054	0.09	0.0803	0.097	0.097
	Thorium-232	37	100	--	--	--	--	--	--	1.26	1.52	1.77	1.73	1.9	2.23
	Thorium-234	37	57	-0.26	0.625	0.795	0.721	0.993	1.21	1.12	1.4	1.72	1.65	1.86	2.07
	Uranium 233/234	37	24	0.47	0.783	0.85	0.868	0.995	1.16	0.7	0.875	0.96	1.02	1.22	1.23
	Uranium 235	37	43	0	0.03	0.048	0.047	0.067	0.11	0.042	0.054	0.0685	0.0803	0.1	0.13
	Uranium-238	37	100	--	--	--	--	--	--	0.57	0.82	0.93	0.933	1.06	1.38

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	34	100	--	--	--	--	--	--	4,840	6,290	7,260	8,240	10,700	15,300
	Antimony	34	32	0.33	0.33	0.33	0.33	0.33	0.33	0.13	0.14	0.17	0.194	0.23	0.35
	Arsenic	34	100	--	--	--	--	--	--	2.8	3.5	3.85	4.09	4.73	6.1
	Barium	34	100	--	--	--	--	--	--	73	140	207	204	244	436
	Beryllium	34	100	--	--	--	--	--	--	0.38	0.468	0.54	0.564	0.668	0.77
	Boron	34	29	3.2	3.2	3.5	3.72	4.1	4.8	5.4	5.88	6.8	7.08	8.5	9.1
	Cadmium	34	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	34	100	--	--	--	--	--	--	8,160	15,800	22,600	29,300	37,600	82,800
	Chloride	34	82	0.25	0.708	1.65	1.34	1.8	1.8	1.3	3.3	41.9	220	319	1,060
	Chromium	34	100	--	--	--	--	--	--	3.1	6.4	8.45	8.24	9.83	12.1
	Chromium Hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	34	100	--	--	--	--	--	--	4.8	6.2	7.85	8.3	10.2	14.8
	Copper	34	100	--	--	--	--	--	--	11.9	14.3	17.3	17.6	20.5	30.5
	Fluoride	34	15	0.051	0.051	0.051	0.45	0.765	2.1	0.31	0.335	0.67	0.614	0.865	0.94
	Iron	34	100	--	--	--	--	--	--	6,350	9,450	12,100	12,500	15,700	18,800
	Lead	34	100	--	--	--	--	--	--	4.9	6.35	6.85	7.27	8.05	12.4
	Lithium	34	100	--	--	--	--	--	--	8.5	10.5	11.7	12.6	14.6	21.3
	Magnesium	34	100	--	--	--	--	--	--	4,580	5,790	8,800	8,730	11,300	13,600
	Manganese	34	100	--	--	--	--	--	--	183	299	368	399	481	863
	Mercury	34	62	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.019	0.0187	0.025	0.034
	Molybdenum	34	100	--	--	--	--	--	--	0.3	0.378	0.5	0.587	0.625	2
	Nickel	34	100	--	--	--	--	--	--	9.2	11.3	15.1	14.8	17.7	22.7
	Niobium	34	0	1.02	1.02	1.35	1.48	1.8	2.8	--	--	--	--	--	--
	Nitrate	34	100	--	--	--	--	--	--	0.13	0.645	1.3	14.8	13.7	102
	Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	34	100	--	--	--	--	--	--	0.14	0.315	0.435	0.433	0.528	0.84
	Platinum	34	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	--	0.072	0.072	--	0.099
	Phosphorus	34	100	--	--	--	--	--	--	842	1,160	1,470	1,410	1,720	2,010
	Potassium	34	100	--	--	--	--	--	--	872	1,110	1,370	1,610	2,090	3,260
	Selenium	34	32	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.28	0.34	0.326	0.37	0.4
	Silicon	34	100	--	--	--	--	--	--	399	536	721	743	859	1,360
	Silver	34	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	34	100	--	--	--	--	--	--	179	389	503	574	734	1,320
	Strontium	34	100	--	--	--	--	--	--	69	152	210	206	254	441
	Sulfate	34	91	2.2	2.2	3.1	3.23	4.4	4.4	4.3	9	84.4	228	182	3240
	Thallium	34	21	0.25	0.48	0.543	0.575	0.61	1.1	1.1	1.1	1.4	1.47	1.8	1.8
	Tin	34	100	--	--	--	--	--	--	0.2	0.4	0.445	0.455	0.53	0.75
	Titanium	34	100	--	--	--	--	--	--	213	385	531	534	672	1,010
	Tungsten	34	0	0.64	0.87	1.05	1.21	1.58	2.2	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.67	0.805	1	0.963	1.1	1.3
	Vanadium	34	100	--	--	--	--	--	--	21.3	30.2	36.3	36.8	43.1	59.1
	Zinc	34	100	--	--	--	--	--	--	17.6	25.9	33.6	33.5	40.3	51.3
	Zirconium	34	100	--	--	--	--	--	--	78.9	115	133	132	148	179

Table E-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Actinium-228	34	100	--	--	--	--	--	--	1.24	1.7	1.95	1.93	2.18	2.66
	Bismuth-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Bismuth-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	34	65	0.53	0.563	0.805	0.767	0.873	1.21	0.72	0.925	1.14	1.17	1.38	1.82
	Bismuth-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Cobalt-57	34	0	-0.045	-0.0158	-0.004	-0.00611	0.006	0.022	--	--	--	--	--	--
	Cobalt-60	34	0	-0.055	-0.0185	-0.0035	0.00174	0.023	0.071	--	--	--	--	--	--
	Lead-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Lead-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Lead-212	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Lead-214	34	100	--	--	--	--	--	--	0.64	0.8	0.89	0.953	1.06	1.72
	Polonium-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Polonium-212	34	65	0.34	0.363	0.515	0.493	0.558	0.78	0.46	0.588	0.73	0.749	0.883	1.17
	Polonium-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Polonium-215	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Polonium-216	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Polonium-218	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Potassium-40	34	100	--	--	--	--	--	--	17.8	22.5	24.2	25.1	27.2	35
	Protactinium-234	34	0	-0.31	-0.153	-0.085	-0.0835	-0.00275	0.06	--	--	--	--	--	--
	Radium-223	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Radium-224	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Radium 226	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Radium 228	29	83	1.35	1.41	1.5	1.58	1.8	2	1.15	1.62	2.04	1.94	2.28	2.42
	Thallium-207	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thallium-208	34	100	--	--	--	--	--	--	0.4	0.48	0.57	0.554	0.61	0.66
	Thorium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thorium-228	34	100	--	--	--	--	--	--	1.28	1.59	1.81	1.76	1.97	2.15
	Thorium-230	34	100	--	--	--	--	--	--	0.75	1.05	1.17	1.23	1.4	2.44
	Thorium-231	34	9	0.0009	0.034	0.053	0.058	0.084	0.13	0.047	0.047	0.052	0.0513	0.055	0.055
	Thorium-232	34	100	--	--	--	--	--	--	1.22	1.4	1.56	1.61	1.81	2.06
	Thorium-234	34	53	-0.53	0.355	0.76	0.621	0.958	1.19	1.24	1.39	1.61	1.67	1.87	2.3
	Uranium 233/234	34	44	0.75	0.77	0.92	0.934	1.05	1.16	0.94	1.15	1.23	1.38	1.59	2.44
	Uranium 235	34	38	0.0009	0.027	0.045	0.0445	0.06	0.09	0.043	0.054	0.081	0.0806	0.107	0.13
	Uranium-238	34	100	--	--	--	--	--	--	0.64	0.95	1.03	1.11	1.23	1.95

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	33	100	--	--	--	--	--	--	3,740	6,340	7,880	8,210	10,300	13,300
	Antimony	33	36	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.133	0.155	0.198	0.25	0.41
	Arsenic	33	100	--	--	--	--	--	--	3.1	3.7	4.2	4.47	5.35	6.7
	Barium	33	100	--	--	--	--	--	--	82.5	138	171	218	203	836
	Beryllium	33	100	--	--	--	--	--	--	0.29	0.45	0.53	0.555	0.635	0.89
	Boron	33	24	3.2	3.45	4	4.02	4.4	5.1	5.5	5.9	7.4	7.45	8.58	10.2
	Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	33	100	--	--	--	--	--	--	17,900	22,200	32,000	34,300	45,000	70,200
	Chloride	33	94	1.6	--	3.9	3.9	--	6.2	4.1	22.9	37.7	179	263	1,110
	Chromium	33	100	--	--	--	--	--	--	2.6	6.8	8.2	8.15	9.5	14.1
	Chromium Hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	33	100	--	--	--	--	--	--	3.7	5.95	8.9	8.46	10.2	16.3
	Copper	33	100	--	--	--	--	--	--	10.2	14.6	17	17.2	19.9	23.9
	Fluoride	33	18	0.051	0.051	0.23	0.463	0.79	1.6	0.16	0.273	0.48	0.783	1.2	2.5
	Iron	33	100	--	--	--	--	--	--	5,410	9,180	12,300	11,900	14,500	19,100
	Lead	33	100	--	--	--	--	--	--	3	5.45	6	6.28	7	11.7
	Lithium	33	100	--	--	--	--	--	--	9.9	11.8	13.4	15.3	17.4	26.5
	Magnesium	33	100	--	--	--	--	--	--	5,240	6,510	10,900	10,200	12,700	16,900
	Manganese	33	100	--	--	--	--	--	--	151	309	398	386	467	641
	Mercury	33	73	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0092	0.011	0.014	0.0225	0.0188	0.11
	Molybdenum	33	100	--	--	--	--	--	--	0.33	0.44	0.54	0.608	0.645	1.9
	Nickel	33	100	--	--	--	--	--	--	7.9	11.4	14.7	14.8	18	22.1
	Niobium	33	0	1.02	1.02	1.1	1.25	1.45	2	--	--	--	--	--	--
	Nitrate	33	100	--	--	--	--	--	--	0.11	0.655	1.5	5.99	4.9	42.1
	Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	33	100	--	--	--	--	--	--	0.25	0.395	0.55	0.61	0.84	1.2
	Platinum	33	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.064	--	0.064	0.064	--	0.064
	Phosphorus	33	100	--	--	--	--	--	--	722	1,070	1,370	1,350	1,640	1,960
	Potassium	33	100	--	--	--	--	--	--	625	942	1,250	1,290	1,400	2,270
	Selenium	33	21	0.158	0.158	0.158	0.158	0.158	0.158	0.26	0.27	0.29	0.313	0.39	0.4
	Silicon	33	100	--	--	--	--	--	--	423	562	680	764	893	1,380
	Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	33	100	--	--	--	--	--	--	196	512	662	661	809	1,190
	Strontium	33	100	--	--	--	--	--	--	114	188	258	302	407	684
	Sulfate	33	100	--	--	--	--	--	--	8.6	20.3	49.8	286	132	4,130
	Thallium	33	21	0.21	0.38	0.543	0.512	0.552	0.95	1.1	1.2	1.2	1.33	1.5	1.6
	Tin	33	97	0.187	--	0.187	0.187	--	0.187	0.21	0.363	0.405	0.423	0.51	0.63
	Titanium	33	100	--	--	--	--	--	--	200	394	490	493	607	858
	Tungsten	33	0	0.51	0.88	1.1	1.2	1.5	2.1	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.68	0.865	0.95	1.14	1.3	2.7
	Vanadium	33	100	--	--	--	--	--	--	19.2	29.7	38.8	37.9	45.9	57.5
	Zinc	33	100	--	--	--	--	--	--	15.4	23.4	34.1	31.9	39.8	51.7
	Zirconium	33	100	--	--	--	--	--	--	68.4	102	123	122	147	177

Table E-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Actinium-228	33	100	--	--	--	--	--	--	1.18	1.44	1.71	1.77	2	3.4
	Bismuth-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Bismuth 212	33	61	0.52	0.59	0.65	0.715	0.75	1.22	0.83	1.07	1.3	1.26	1.45	1.69
	Bismuth-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Cobalt-57	33	0	-0.032	-0.005	0.002	0.00354	0.0135	0.04	--	--	--	--	--	--
	Cobalt-60	33	0	-0.042	-0.013	0.011	0.0116	0.03	0.082	--	--	--	--	--	--
	Lead-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Lead-212	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Lead-214	33	100	--	--	--	--	--	--	0.61	0.87	1.01	1.09	1.24	1.68
	Polonium-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	33	61	0.33	0.38	0.42	0.458	0.48	0.78	0.53	0.685	0.835	0.806	0.925	1.08
	Polonium-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Polonium-215	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Polonium-216	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Polonium-218	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Potassium-40	33	100	--	--	--	--	--	--	18.4	22.2	24.5	24.5	26.3	31.1
	Protactinium-234	33	0	-0.25	-0.105	-0.04	-0.0555	-0.01	0.13	--	--	--	--	--	--
	Radium-223	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Radium-224	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Radium 226	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Radium 228	25	84	0.946	1.1	1.62	1.52	1.85	1.91	1.34	1.75	2.04	2.02	2.18	2.92
	Thallium-207	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thallium-208	33	100	--	--	--	--	--	--	0.37	0.425	0.53	0.526	0.605	0.72
	Thorium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thorium-228	33	100	--	--	--	--	--	--	1.16	1.38	1.5	1.57	1.83	2.13
	Thorium-230	33	100	--	--	--	--	--	--	0.66	1.01	1.5	1.47	1.68	3.01
	Thorium-231	33	15	0	0.0438	0.06	0.0662	0.087	0.17	0.092	0.0995	0.126	0.143	0.195	0.21
	Thorium-232	33	100	--	--	--	--	--	--	1.05	1.34	1.5	1.55	1.78	2.1
	Thorium-234	33	76	0.24	0.31	0.605	0.68	1	1.39	1.11	1.36	1.55	1.61	1.8	2.5
	Uranium 233/234	33	64	0.58	0.853	0.955	0.937	1.06	1.17	1.13	1.28	1.84	1.79	2.01	2.84
	Uranium 235	33	48	0	0.036	0.053	0.0514	0.068	0.102	0.037	0.087	0.1	0.111	0.138	0.21
	Uranium-238	33	100	--	--	--	--	--	--	0.58	1.03	1.36	1.39	1.67	2.37

Notes:

bgs Below Ground Surface
mg/kg Milligram per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g Picocurie per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Antimony	67	34	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.14	0.16	0.196	0.25	0.41
	Arsenic	67	100	--	--	--	--	--	--	2.8	3.6	4	4.28	5	6.7
	Barium	67	100	--	--	--	--	--	--	73	139	177	211	226	836
	Beryllium	67	100	--	--	--	--	--	--	0.29	0.46	0.54	0.56	0.64	0.89
	Boron	67	27	3.2	3.2	3.8	3.88	4.4	5.1	5.4	5.88	6.95	7.24	8.53	10.2
	Cadmium	67	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	67	100	--	--	--	--	--	--	8,160	18,800	28,800	31,800	42,500	82,800
	Chloride	67	88	0.25	1.05	1.65	1.98	1.8	6.2	1.3	17.7	37.7	199	278	1110
	Chromium	67	100	--	--	--	--	--	--	2.6	6.4	8.2	8.2	9.8	14.1
	Chromium Hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	67	100	--	--	--	--	--	--	3.7	6.2	8.2	8.38	10.2	16.3
	Copper	67	100	--	--	--	--	--	--	10.2	14.6	17.1	17.4	20.3	30.5
	Fluoride	67	16	0.051	0.051	0.141	0.456	0.768	2.1	0.16	0.31	0.5	0.706	0.79	2.5
	Iron	67	100	--	--	--	--	--	--	5,410	9,430	12,300	12,200	14,700	19,100
	Lead	67	100	--	--	--	--	--	--	3	5.7	6.6	6.79	7.3	12.4
	Lithium	67	100	--	--	--	--	--	--	8.5	11.2	12.8	13.9	15.8	26.5
	Magnesium	67	100	--	--	--	--	--	--	4,580	6,320	9,440	9,460	11,800	16,900
	Manganese	67	100	--	--	--	--	--	--	151	302	382	393	471	863
	Mercury	67	67	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.011	0.015	0.0207	0.0225	0.11
	Molybdenum	67	100	--	--	--	--	--	--	0.3	0.42	0.51	0.597	0.63	2
	Nickel	67	100	--	--	--	--	--	--	7.9	11.3	14.8	14.8	17.9	22.7
	Niobium	67	0	1.02	1.02	1.3	1.37	1.6	2.8	--	--	--	--	--	--
	Nitrate	67	100	--	--	--	--	--	--	0.11	0.65	1.5	10.5	6.6	102
	Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	67	100	--	--	--	--	--	--	0.14	0.34	0.49	0.52	0.7	1.2
	Platinum	67	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0498	0.064	0.068	0.0903	0.099
	Phosphorus	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Potassium	67	100	--	--	--	--	--	--	625	1,080	1,310	1,450	1,780	3,260
	Selenium	67	27	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.27	0.31	0.321	0.375	0.4
	Silicon	67	100	--	--	--	--	--	--	399	543	690	753	883	1,380
	Silver	67	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	67	100	--	--	--	--	--	--	179	432	615	617	784	1,320
	Strontium	67	100	--	--	--	--	--	--	69	160	219	253	342	684
	Sulfate	67	96	2.2	2.2	3.1	3.23	4.4	4.4	4.3	17.8	62.5	258	157	4,130
	Thallium	67	21	0.21	0.4	0.543	0.544	0.59	1.1	1.1	1.18	1.35	1.4	1.65	1.8
	Tin	67	99	0.187	--	0.187	0.187	--	0.187	0.2	0.388	0.435	0.44	0.52	0.75
	Titanium	67	100	--	--	--	--	--	--	200	388	504	514	621	1,010
	Tungsten	67	0	0.51	0.88	1.1	1.21	1.5	2.2	--	--	--	--	--	--
	Uranium	66	100	--	--	--	--	--	--	0.67	0.84	0.995	1.05	1.2	2.7
	Vanadium	67	100	--	--	--	--	--	--	19.2	30.5	36.9	37.3	45.1	59.1
	Zinc	67	100	--	--	--	--	--	--	15.4	25.4	34.1	32.7	40	51.7
	Zirconium	67	100	--	--	--	--	--	--	68.4	107	126	127	148	179

Table E-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Actinium-228	67	100	--	--	--	--	--	--	1.18	1.56	1.77	1.85	2.05	3.4
	Bismuth-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Bismuth 212	67	63	0.52	0.59	0.69	0.74	0.845	1.22	0.72	0.99	1.2	1.21	1.41	1.82
	Bismuth-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Cobalt-57	67	0	-0.045	-0.01	-0.0009	-0.00136	0.011	0.04	--	--	--	--	--	--
	Cobalt-60	67	0	-0.055	-0.017	0.007	0.00658	0.026	0.082	--	--	--	--	--	--
	Lead-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Lead-212	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Lead-214	67	100	--	--	--	--	--	--	0.61	0.83	0.98	1.02	1.14	1.72
	Polonium-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	67	63	0.33	0.38	0.45	0.474	0.545	0.78	0.46	0.63	0.765	0.776	0.903	1.17
	Polonium-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Polonium-215	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Polonium-216	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Polonium-218	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Potassium-40	67	100	--	--	--	--	--	--	17.8	22.4	24.3	24.8	26.6	35
	Protactinium-234	67	0	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13	--	--	--	--	--	--
	Radium-223	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Radium-224	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Radium 226	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Radium 228	54	83	0.946	1.41	1.55	1.56	1.8	2	1.15	1.71	2.04	1.98	2.21	2.92
	Thallium-207	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	--	--	--	--	--	--	--
	Thallium-208	67	100	--	--	--	--	--	--	0.37	0.46	0.55	0.54	0.61	0.72
	Thorium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thorium-228	67	100	--	--	--	--	--	--	1.16	1.41	1.66	1.67	1.91	2.15
	Thorium-230	67	100	--	--	--	--	--	--	0.66	1.04	1.22	1.35	1.61	3.01
	Thorium-231	67	12	0	0.041	0.058	0.0619	0.087	0.17	0.047	0.0528	0.0995	0.109	0.167	0.21
	Thorium-232	67	100	--	--	--	--	--	--	1.05	1.36	1.52	1.58	1.78	2.1
	Thorium-234	67	64	-0.53	0.348	0.75	0.64	0.958	1.39	1.11	1.37	1.58	1.63	1.8	2.5
	Uranium 233/234	67	54	0.58	0.83	0.94	0.935	1.05	1.17	0.94	1.22	1.47	1.62	1.94	2.84
	Uranium 235	67	43	0	0.0293	0.0475	0.0476	0.0605	0.102	0.037	0.067	0.089	0.0973	0.123	0.21
	Uranium-238	67	100	--	--	--	--	--	--	0.58	0.97	1.16	1.25	1.46	2.37

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-6 RPDS for BRC/TIMET Field Split Samples

Analyte	Location BKG-03A-3-7					Location BKG-06C-8-12					Location BKG-09C-0-0.5				
	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD
Anions (mg/kg)															
Chloride	199	Y	181.00	Y	9.5%	17.70	Y	20.70	Y	15.6%	1.60	N	1.30	N	NC
Fluoride	0.63	N	0.05	N	NC	0.16	Y	0.35	Y	**74.5%**	0.05	N	0.05	N	NC
Nitrate	26.1	Y	26.30	Y	0.8%	0.13	Y	0.20	Y	42.4%	0.10	N	0.10	N	NC
Nitrite	0.063	N	0.06	N	NC	0.06	N	0.06	N	NC	0.06	N	0.06	N	NC
Sulfate	143	Y	227.00	Y	45.4%	14.80	Y	15.70	Y	5.9%	5.10	Y	4.80	N	NC
Metals (mg/kg)															
Aluminum	8990	Y	6,580.00	Y	31.0%	11,600.00	Y	12,600.00	Y	8.3%	10,400.00	Y	10,200.00	Y	1.9%
Antimony	0.35	Y	0.33	N	NC	0.33	N	0.13	Y	NC	0.33	N	0.33	N	NC
Arsenic	3.5	Y	3.80	Y	8.2%	4.40	Y	4.50	Y	2.2%	3.70	Y	3.50	Y	5.6%
Barium	221	Y	218.00	Y	1.4%	169.00	Y	191.00	Y	12.2%	190.00	Y	283.00	Y	39.3%
Beryllium	0.44	Y	0.42	Y	4.7%	0.62	Y	0.63	Y	1.6%	0.45	Y	0.44	Y	2.2%
Boron	6.8	Y	4.40	N	NC	4.00	N	3.80	N	NC	4.90	N	4.90	N	NC
Cadmium	0.1291	N	0.13	N	NC	0.13	N	0.13	N	NC	0.13	N	0.13	N	NC
Calcium	23900	Y	24,600.00	Y	2.9%	47,000.00	Y	43,200.00	Y	8.4%	22,700.00	Y	23,000.00	Y	1.3%
Chromium	6.4	Y	5.50	Y	15.1%	8.60	Y	9.50	Y	9.9%	11.30	Y	10.30	Y	9.3%
Cobalt	6.6	Y	11.60	Y	**54.9%**	10.20	Y	12.00	Y	16.2%	9.90	Y	13.20	Y	28.6%
Copper	24.2	Y	14.40	Y	**50.8%**	19.10	Y	21.30	Y	10.9%	19.60	Y	19.70	Y	0.5%
Chromium, Hexavalent VI	0.26	N	0.26	N	NC	0.26	N	0.26	N	NC	0.25	N	0.25	N	NC
Iron	8890	Y	8,480.00	Y	4.7%	15,600.00	Y	16,800.00	Y	7.4%	17,400.00	Y	17,200.00	Y	1.2%
Lead	5.7	Y	7.40	Y	26.0%	5.60	Y	6.00	Y	6.9%	11.10	Y	13.70	Y	21.0%
Lithium	11.5	Y	11.70	Y	1.7%	19.50	Y	19.20	Y	1.6%	13.20	Y	11.30	Y	15.5%
Magnesium	7590	Y	5,720.00	Y	28.1%	13,000.00	Y	14,400.00	Y	10.2%	10,300.00	Y	10,800.00	Y	4.7%
Manganese	304	Y	468.00	Y	42.5%	432.00	Y	503.00	Y	15.2%	445.00	Y	766.00	Y	**53.0%**
Mercury	0.0072	N	0.01	N	NC	0.01	Y	0.01	Y	25.6%	0.03	Y	0.03	Y	30.5%
Molybdenum	0.76	Y	0.65	Y	15.6%	0.38	Y	0.45	Y	16.9%	0.51	Y	0.45	Y	12.5%
Nickel	13.2	Y	10.40	Y	23.7%	17.90	Y	19.30	Y	7.5%	18.90	Y	19.60	Y	3.6%
Niobium	1.7	N	1.60	N	NC	1.02	N	1.02	N	NC	2.50	N	1.70	N	NC
Palladium	0.58	Y	0.44	Y	27.5%	0.88	Y	1.00	Y	12.8%	0.45	Y	0.47	Y	4.3%
Phosphorus	1160	Y	1,150.00	Y	0.9%	1,640.00	Y	1,500.00	Y	8.9%	1,540.00	Y	1,580.00	Y	2.6%
Platinum	0.0435	N	0.04	N	NC	0.04	N	0.04	N	NC	0.04	N	0.04	N	NC
Potassium	3260	Y	2,260.00	Y	36.2%	792.00	Y	956.00	Y	18.8%	1,800.00	Y	1,680.00	Y	6.9%
Selenium	0.23	Y	0.38	Y	49.2%	0.16	N	0.16	N	NC	0.16	N	0.16	N	NC
Silicon	1230	Y	1,150.00	Y	6.7%	712.00	Y	656.00	Y	8.2%	620.00	Y	555.00	Y	11.1%
Silver	0.2609	N	0.26	N	NC	0.26	N	0.26	N	NC	0.26	N	0.26	N	NC
Sodium	716	Y	588.00	Y	19.6%	852.00	Y	831.00	Y	2.5%	357.00	Y	399.00	Y	11.1%
Strontium	294	Y	234.00	Y	22.7%	394.00	Y	488.00	Y	21.3%	203.00	Y	217.00	Y	6.7%
Thallium	0.28	N	0.39	N	NC	0.54	N	0.22	N	NC	1.70	Y	1.60	Y	6.1%
Tin	0.52	Y	0.42	Y	21.3%	0.38	Y	0.51	Y	29.2%	0.69	Y	0.76	Y	9.7%
Titanium	673	Y	528.00	Y	24.1%	503.00	Y	650.00	Y	25.5%	864.00	Y	767.00	Y	11.9%
Tungsten	2.2	N	1.60	N	NC	0.67	N	1.90	N	NC	1.50	N	1.50	N	NC
Uranium	0.99	Y	0.85	Y	15.2%	1.30	Y	1.50	Y	14.3%	0.97	Y	0.98	Y	1.0%
Vanadium	36.2	Y	29.00	Y	22.1%	46.20	Y	59.50	Y	25.2%	46.10	Y	48.80	Y	5.7%
Zinc	25.5	Y	25.50	Y	0.0%	40.00	Y	42.60	Y	6.3%	63.60	Y	70.60	Y	10.4%
Zirconium	112	Y	116.00	Y	3.5%	124.00	Y	124.00	Y	0.0%	145.00	Y	137.00	Y	5.7%
Radionuclides (pCi/g)															
Actinium 227-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Actinium 228	1.67	Y	1.85	Y	10.2%	1.18	Y	1.36	Y	14.2%	1.71	Y	1.70	Y	0.6%
Bismuth 210-X	0.5	N	-0.02	N	NC	0.60	N	1.09	N	NC	0.50	N	0.40	N	NC
Bismuth 211-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Bismuth 212	1.82	Y	1.11	Y	48.5%	1.10	Y	1.03	Y	6.6%	0.90	Y	0.83	N	NC
Bismuth 214	1.06	Y	0.92	Y	14.1%	1.19	Y	0.92	Y	25.6%	0.73	Y	0.75	Y	2.7%
Cobalt 57	-0.01	N	-0.01	N	NC	-0.01	N	0.01	N	NC	-0.02	N	-0.01	N	NC
Cobalt 60	-0.023	N	0.00	N	NC	-0.01	N	-0.01	N	NC	-0.03	N	-0.01	N	NC

Table E-6 RPDS for BRC/TIMET Field Split Samples

Analyte	Location BKG-03A-3-7			Location BKG-06C-8-12			Location BKG-09C-0-0.5		
	Sample Resuts/Detect?	Split Results/Detect?	RPD	Sample Resuts/Detect?	Split Results/Detect?	RPD	Sample Resuts/Detect?	Split Results/Detect?	RPD
Lead 210	0.5 N	-0.02 N	NC	0.60 N	1.09 N	NC	0.50 N	0.40 N	NC
Lead 211-X	-0.38 N	0.09 N	NC	-0.37 N	0.26 N	NC	-0.06 N	0.18 N	NC
Lead 212	1.6 Y	1.64 Y	2.5%	1.20 Y	1.26 Y	4.9%	1.30 Y	1.42 Y	8.8%
Lead 214	1.03 Y	0.85 Y	19.1%	0.82 Y	1.00 Y	19.8%	0.85 Y	0.71 Y	17.9%
Polonium 210-X	0.5 N	-0.02 N	NC	0.60 N	1.09 N	NC	0.50 N	0.40 N	NC
Polonium 212-X	1.17 Y	0.71 Y	48.9%	0.70 Y	0.66 Y	5.9%	0.58 Y	0.53 N	NC
Polonium 214-X	1.06 Y	0.92 Y	14.1%	1.19 Y	0.92 Y	25.6%	0.73 Y	0.75 Y	2.7%
Polonium 215-X	-0.38 N	0.09 N	NC	-0.37 N	0.26 N	NC	-0.06 N	0.18 N	NC
Polonium 216-X	1.6 Y	1.64 Y	2.5%	1.20 Y	1.26 Y	4.9%	1.30 Y	1.42 Y	8.8%
Polonium 218-X	0.952 Y	1.10 Y	14.4%	1.34 Y	1.08 Y	21.5%	1.14 Y	1.18 Y	3.4%
Potassium 40	30.4 Y	26.70 Y	13.0%	23.40 Y	20.60 Y	12.7%	23.70 Y	23.20 Y	2.1%
Protactinium 234	-0.02 N	-0.02 N	NC	-0.08 N	0.17 N	NC	0.01 N	-0.05 N	NC
Radium 223-X	-0.38 N	0.09 N	NC	-0.37 N	0.26 N	NC	-0.06 N	0.18 N	NC
Radium 224-X	1.6 Y	1.64 Y	2.5%	1.20 Y	1.26 Y	4.9%	1.30 Y	1.42 Y	8.8%
Radium 226	0.952 Y	1.10 Y	14.4%	1.34 Y	1.08 Y	21.5%	1.14 Y	1.18 Y	3.4%
Radium 228	2.29 Y	1.96 Y	15.5%	2.02 Y	1.68 Y	18.4%	1.97 Y	2.49 Y	23.3%
Thallium 207-X	-0.38 N	0.09 N	NC	-0.37 N	0.26 N	NC	-0.06 N	0.18 N	NC
Thallium 208	0.6 Y	0.56 Y	6.9%	0.48 Y	0.44 Y	8.7%	0.47 Y	0.51 Y	8.2%
Thorium 227	-0.38 N	0.09 N	NC	-0.37 N	0.26 N	NC	-0.06 N	0.18 N	NC
Thorium 228	1.85 Y	1.78 Y	3.9%	1.50 Y	1.24 Y	19.0%	1.90 Y	1.80 Y	5.4%
Thorium 230	1.67 Y	1.21 Y	31.9%	1.61 Y	1.51 Y	6.4%	1.20 Y	1.02 Y	16.2%
Thorium 231	0.045 N	0.03 N	NC	0.11 Y	0.02 N	NC	0.05 N	0.03 N	NC
Thorium 232	1.5 Y	2.13 Y	34.7%	1.28 Y	1.19 Y	7.3%	1.54 Y	1.72 Y	11.0%
Thorium 234	1.64 Y	0.22 N	NC	1.52 Y	1.39 Y	8.9%	0.73 N	0.43 N	NC
Uranium 233/234	1.16 N	0.95 N	NC	1.21 Y	1.20 Y	0.8%	0.79 N	0.95 N	NC
Uranium 235	0.045 N	0.03 N	NC	0.11 Y	0.02 N	NC	0.05 Y	0.03 N	NC
Uranium 238	1.23 Y	0.98 Y	22.6%	1.59 Y	1.28 Y	21.6%	0.69 Y	0.78 Y	12.2%
Geotechnical									
CEC (meq/100g)	8.6 Y	9.60 Y	11.0%	16.40 Y	12.90 Y	23.9%	14.90 Y	16.50 Y	10.2%
Moisture (%)	2.2 Y	2.60 Y	16.7%	3.50 Y	3.80 Y	8.2%	1.30 Y	1.40 Y	7.4%
pH (pH unit)	8.5 Y	8.50 Y	0.0%	9.30 Y	9.20 Y	1.1%	8.90 Y	9.00 Y	1.1%

Notes:

mg/kg = Milligram per kilogram
NC = Not calculated because one or both split sample results are non-detect
RPD = Relative percent difference
Y/N = Yes or no; answers whether the analyte was detected or not
X = Indicates that the radionuclide was back-quantitated from a longer-lived radionuclide in the same decay chain

meq/100g = Milliequivalent per 100 grams
pCi/g = PicoCurie per gram
CEC = Cation exchange capacity

TABLE E-7

CORRELATION COEFFICIENTS FOR ALKALINE AND ALKALINE-EARTH METALS

Metal	Ba	Ca	K	Li	Mg	Na	Sr	Ra-226
Ba		-0.04	-0.04	-0.01	**-0.22**	0.02	0.06	**-0.34**
Ca	-0.04		**-0.21**	**0.58**	**0.42**	**0.59**	**0.52**	**0.41**
K	-0.04	**-0.21**		0.18	0.01	**-0.29**	-0.19	-0.11
Li	-0.01	**0.58**	0.18		**0.56**	**0.36**	**0.34**	**0.38**
Mg	**-0.22**	**0.42**	0.01	**0.56**		**0.20**	**0.42**	0.04
Na	0.02	**0.59**	**-0.29**	**0.36**	**0.20**		**0.59**	**0.24**
Sr	0.06	**0.52**	-0.19	**0.34**	**0.42**	**0.59**		**0.24**
Ra-226	**-0.34**	**0.41**	-0.11	**0.38**	0.04	**0.24**	**0.24**	

Notes:

Ba Barium
Ca Calcium
K Potassium
Li Lithium
Mg Magnesium
Na Sodium
Sr Strontium
Ra Radium

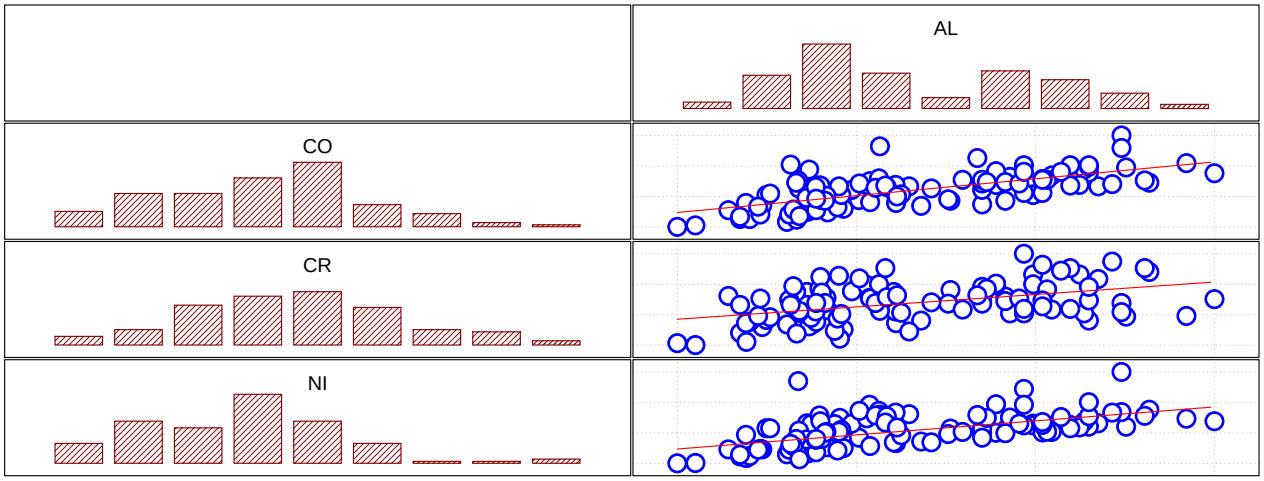
Correlation coefficients in bold-face font are statistically significant at $p \leq 0.05$
Shaded values show an inverse correlation

Associated Figures

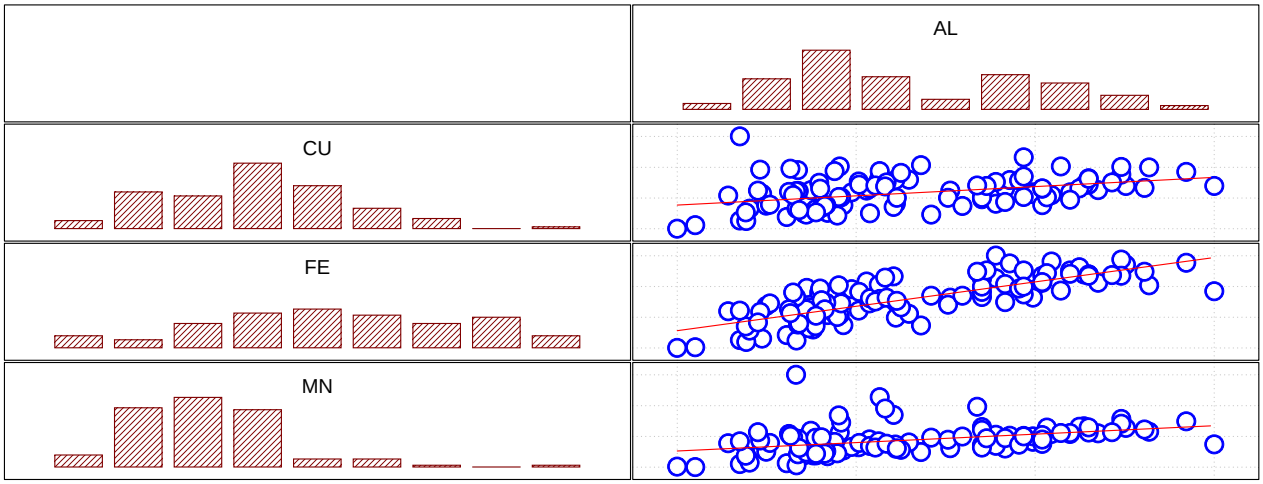
Correlations of Aluminum and Trace Metals
Correlations of Barium with Alkaline Metals and Sulfate
Correlation of Silicon with Selected Metals
Scatter Plots with Inter-element Correlations for Silicon (2 pages)

Correlations of Aluminum and Trace Metals

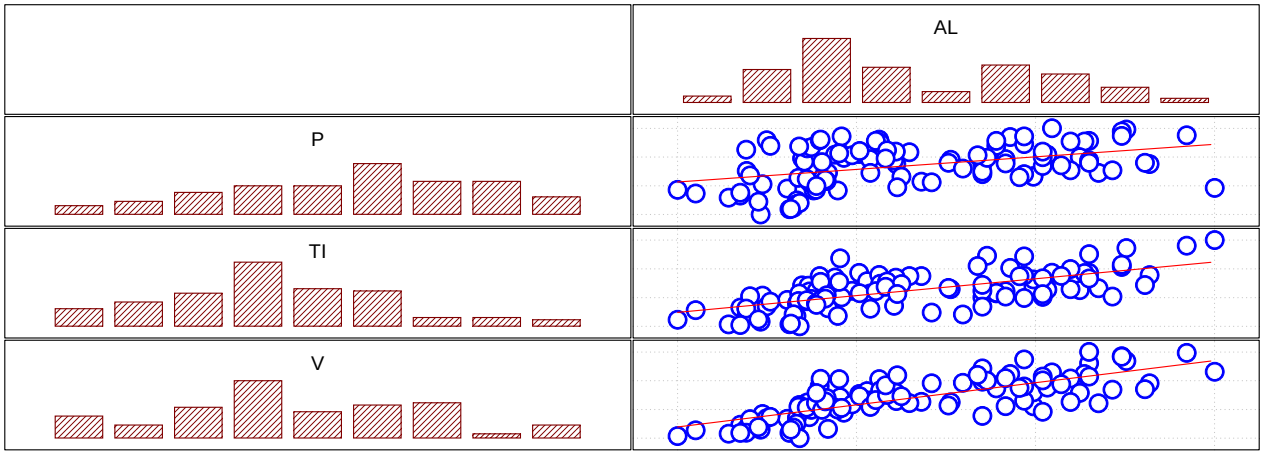
Correlations of Aluminum and Cobalt, Chromium, and Nickel



Correlations of Aluminum with Copper, Iron, and Manganese

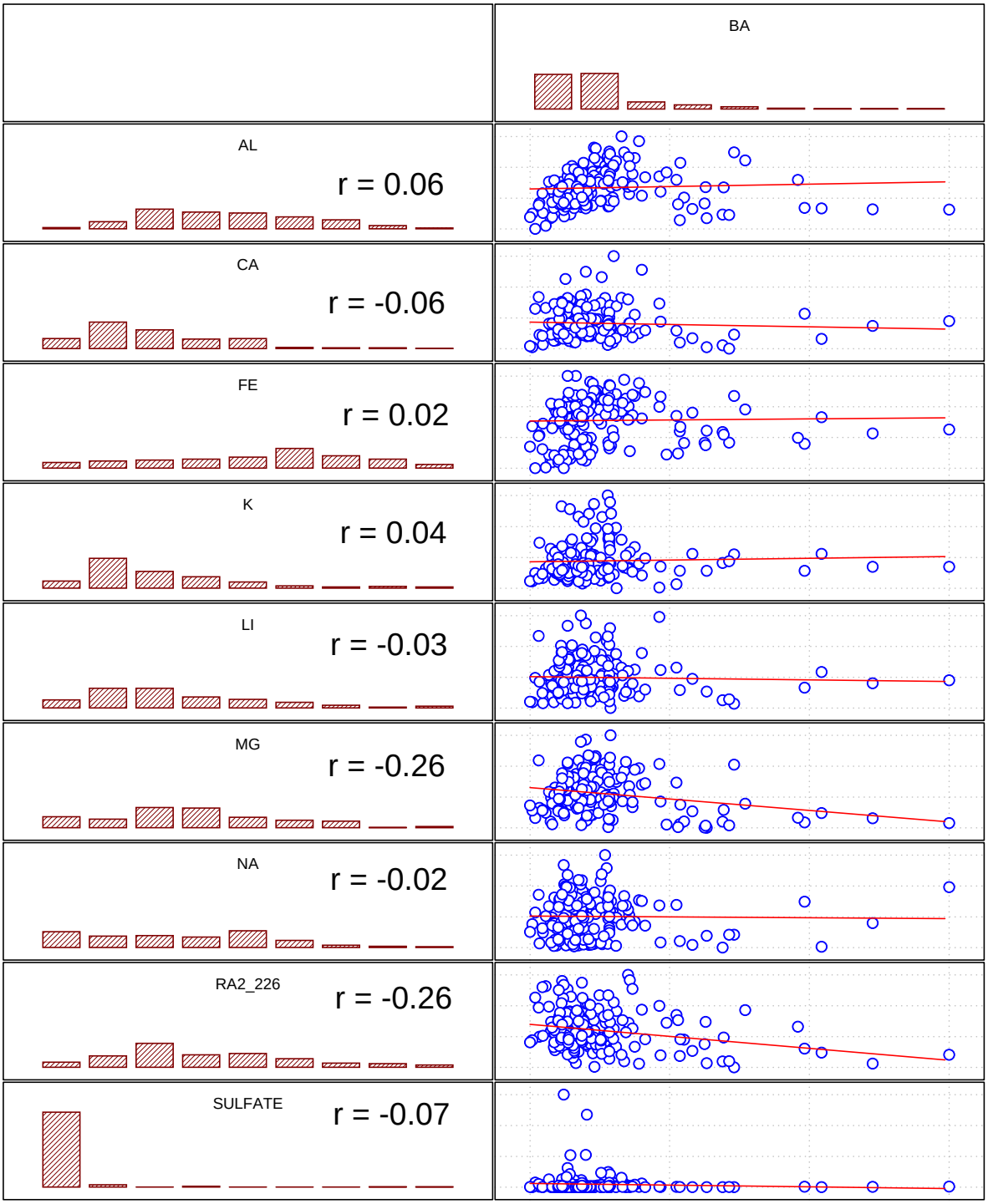


Correlations of Aluminum with Phosphorus, Titanium, and Vanadium

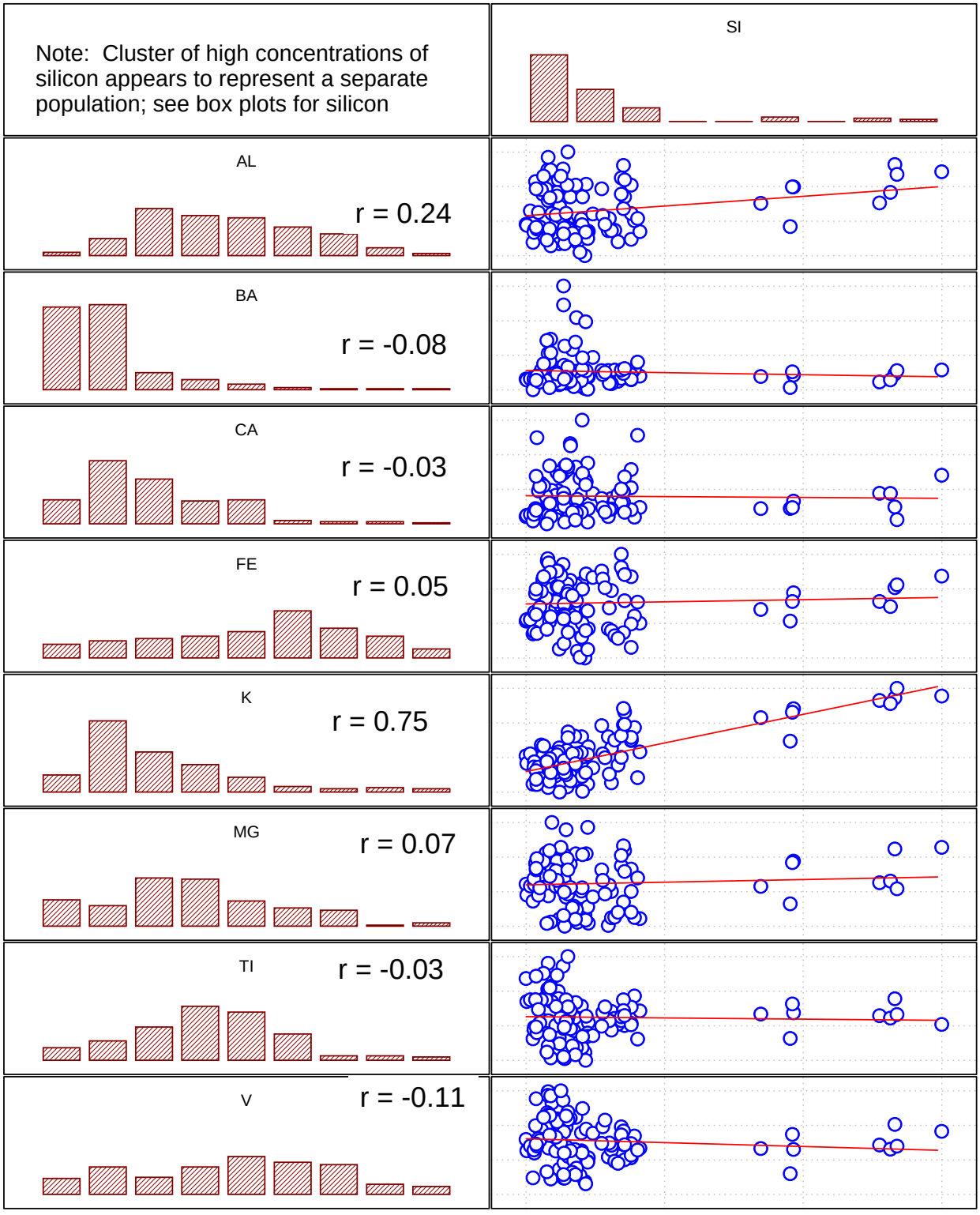


Correlations of Barium with Alkaline Metals and Sulfate

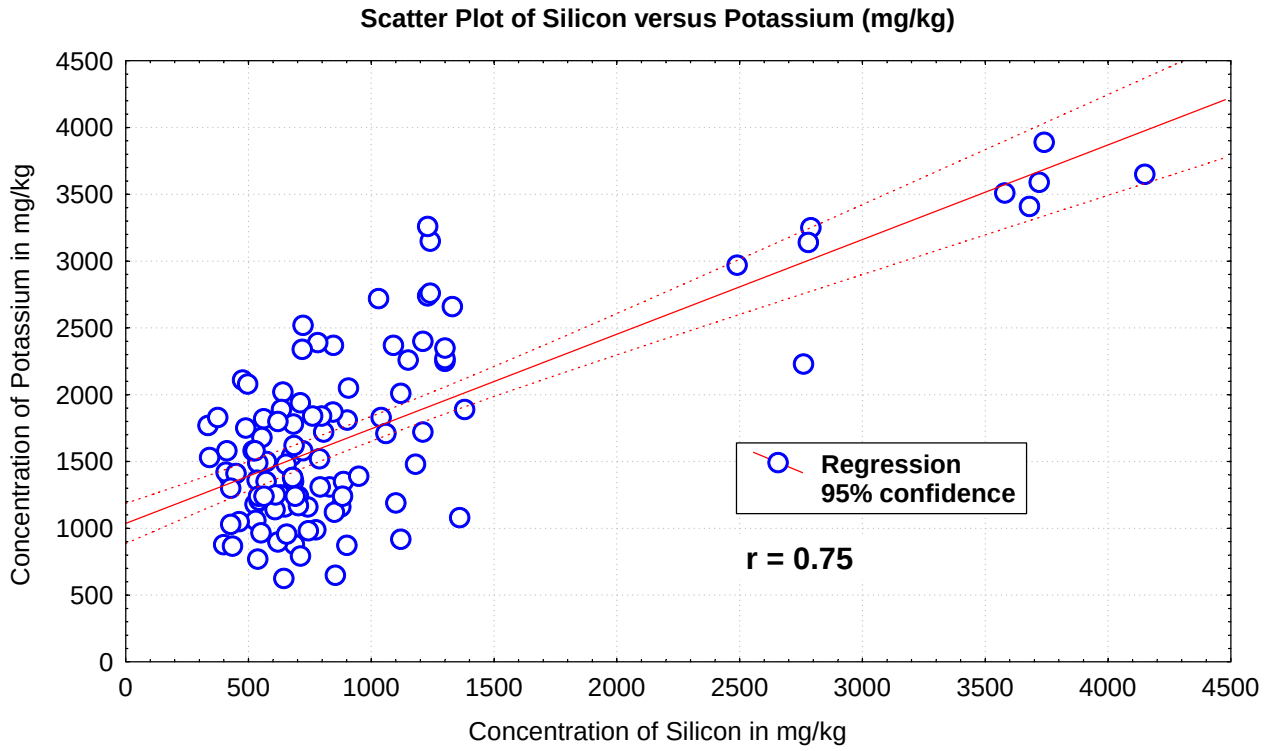
Correlations of Barium vs. Aluminum, Sulfate, Alkaline Earth and Alkali Metals

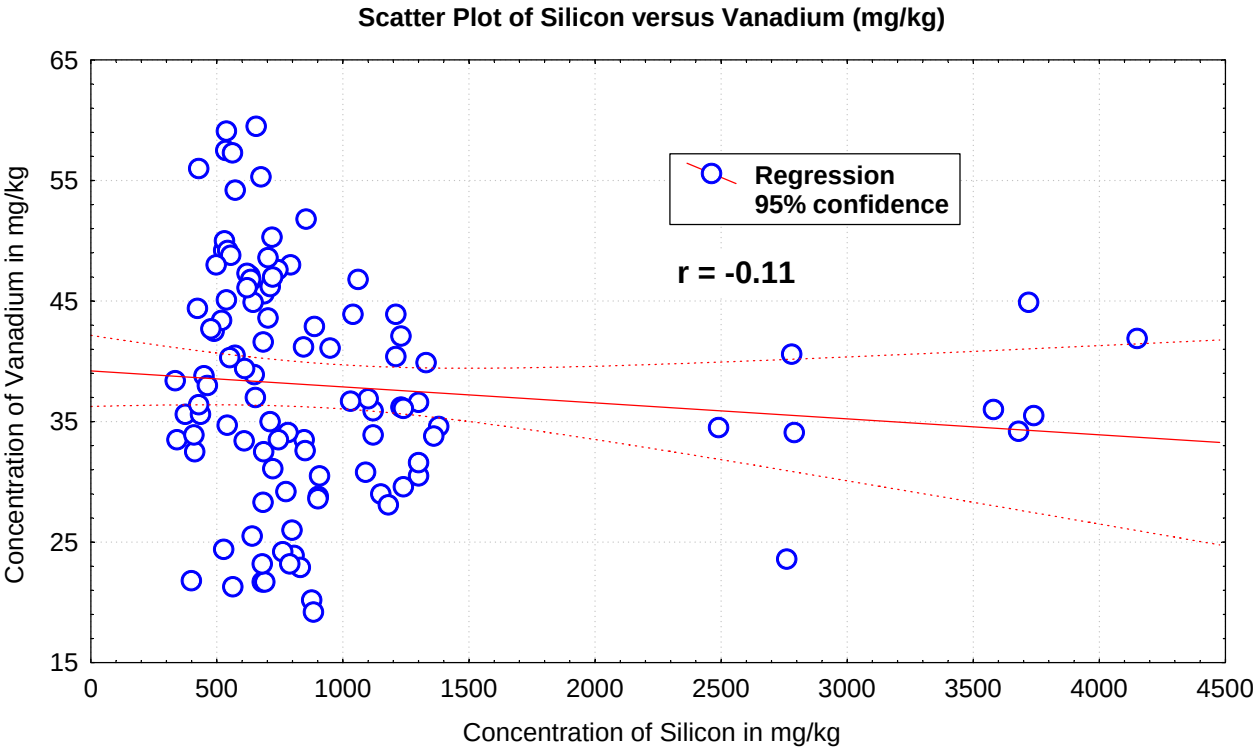


Correlations of Silicon with Selected Metals

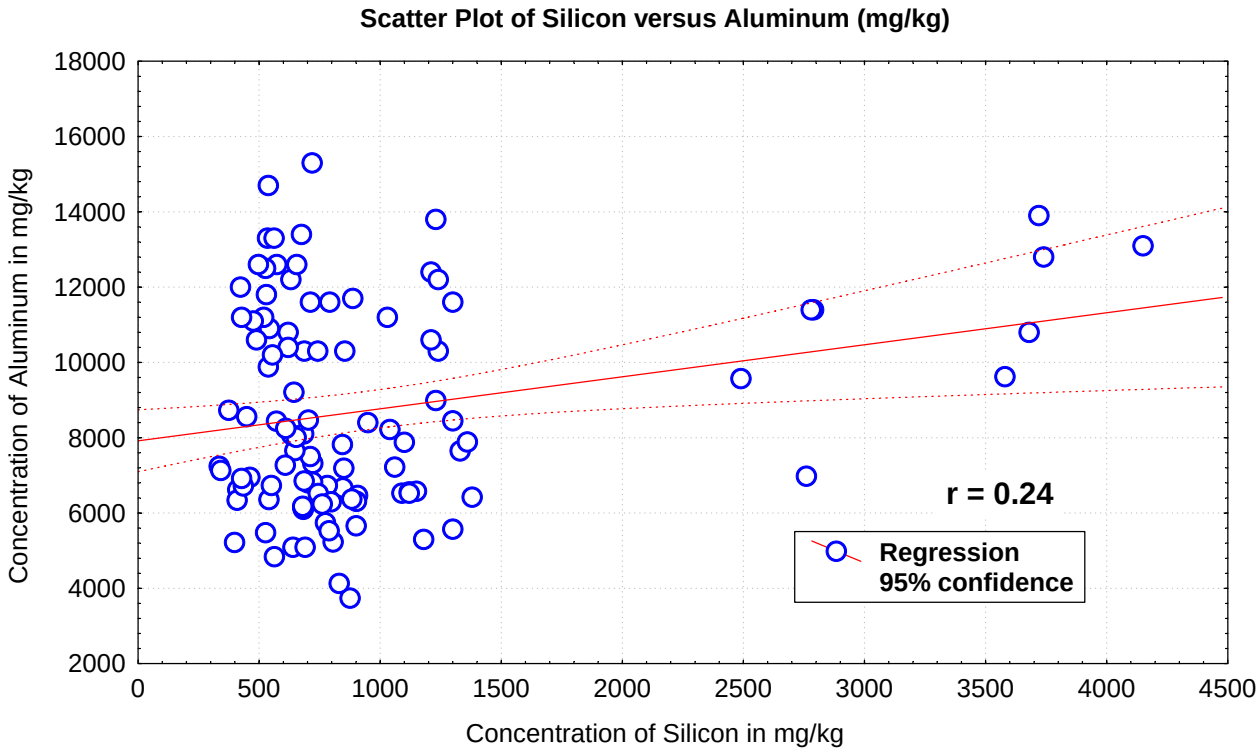


Scatter Plots with Inter-element Correlations for Silicon





Scatter Plots with Inter-element Correlations for Silicon



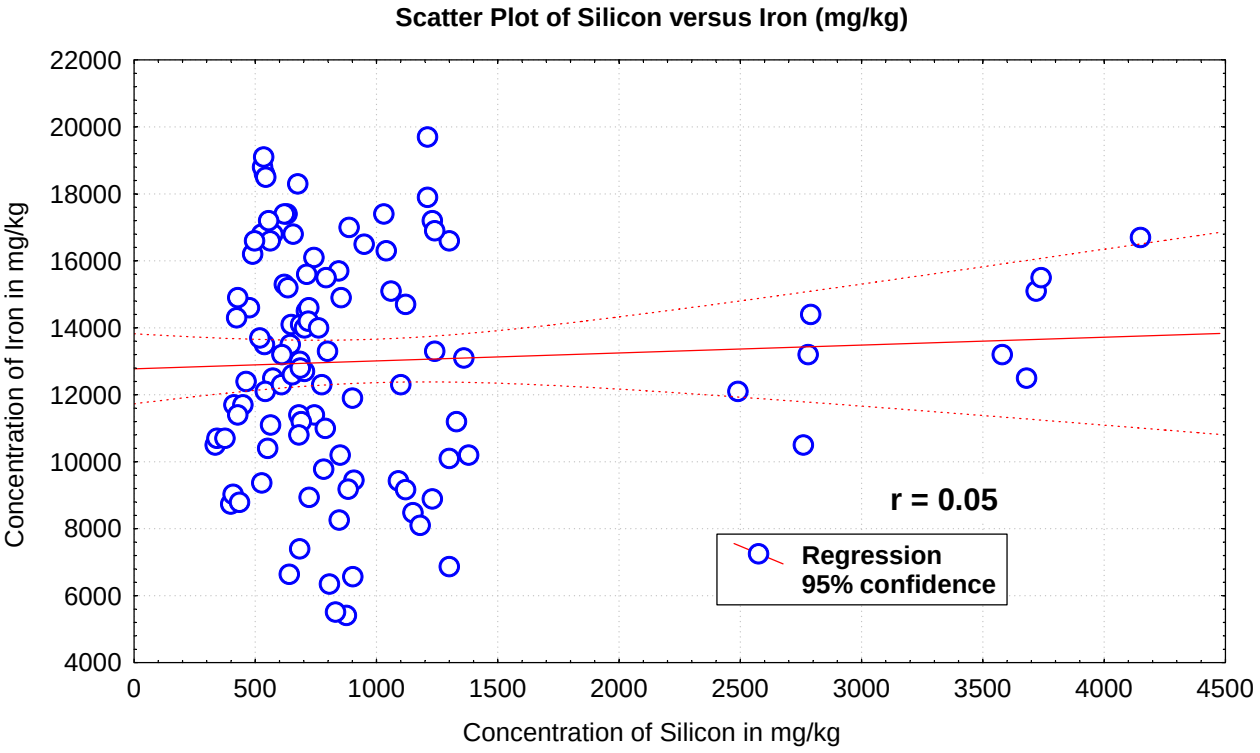


TABLE E-8
CORRELATION COEFFICIENTS FOR RADIONUCLIDES
IN THE THORIUM-232 DECAY CHAIN

Isotope	Ac-228	Bi-212	Pb-212	Ra-224X	Ra-228	Th-228	Th-232	Tl-208
Ac-228		**0.33**	**0.58**	**0.58**	**0.28**	**0.53**	**0.51**	**0.55**
Bi-212	**0.33**		**0.46**	**0.46**	**0.26**	**0.30**	**0.34**	**0.30**
Pb-212	**0.58**	**0.46**			**0.30**	**0.58**	**0.59**	**0,75**
Ra-224X	**0.58**	**0.46**	**1.00**	**1.00**	**0.30**	**0.58**	**0.59**	**0.75**
Ra-228	**0.28**	**0.26**	**0.30**	**0.30**		**0.31**	**0.32**	**0.32**
Th-228	**0.53**	**0.30**	**0.58**	**0.58**	**0.31**		**0.76**	**0.53**
Th-232	**0.51**	**0.34**	**0.59**	**0.59**	**0.32**	**0.76**		**0.56**
Tl-208	**0.55**	**0.30**	**0.75**	**0.75**	**0.32**	**0.53**	**0.56**	

Notes:

Ac Actinium
Bi Bismuth
Pb Lead
Ra Radium
Th Thorium
Tl Thallium
X Calculated from the nearest decay product (Pb-212) with measurable gamma emissions; as opposed to direct measurement.

Statistically significant r-values shown in bold-face font, where significance taken at $p \leq 0.05$

Associated Figures

Correlations for Thorium-232 Decay Chain

Correlations for Thorium-232 Decay Chain

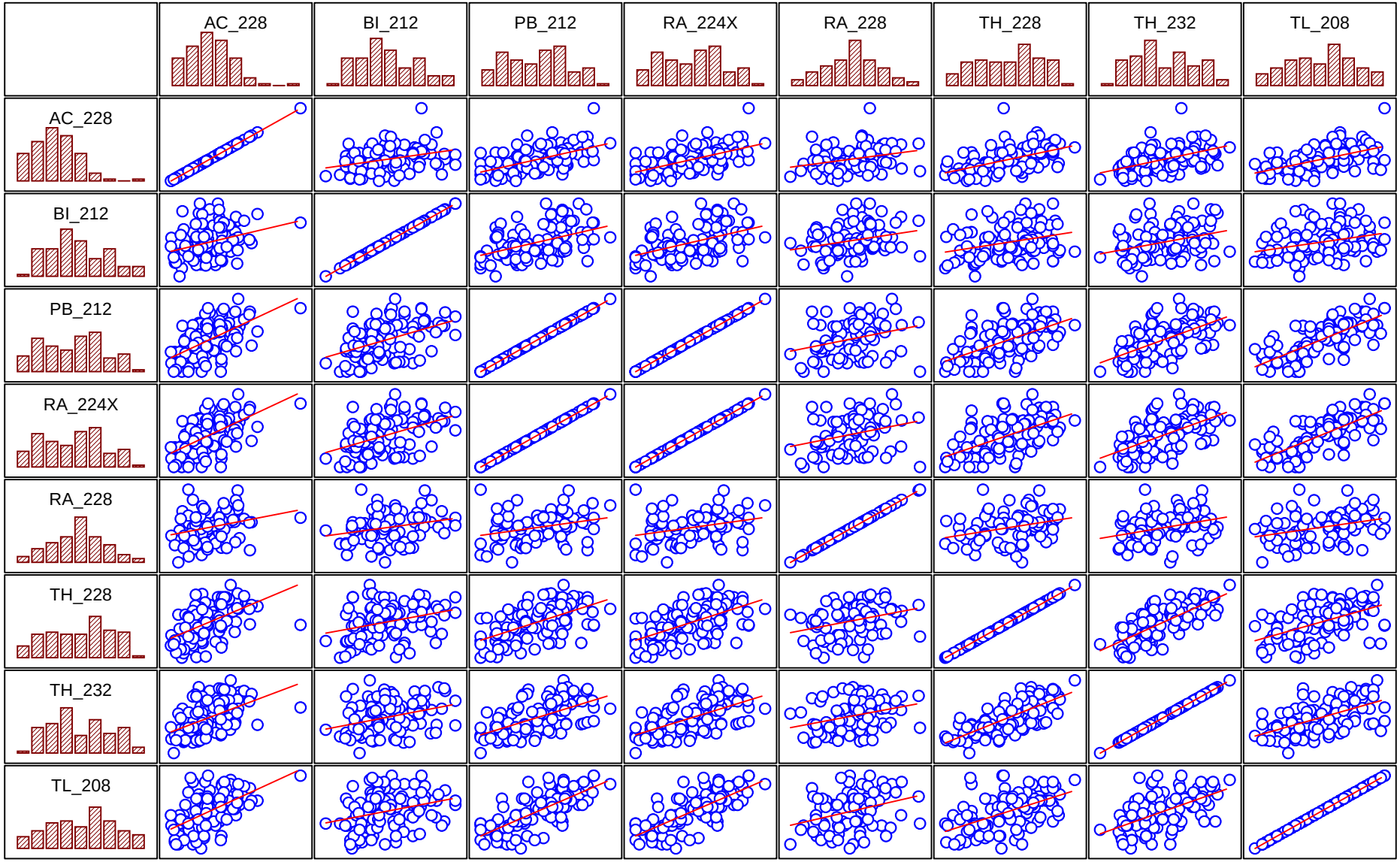


TABLE E-9

CORRELATION COEFFICIENTS FOR RADIONUCLIDES IN THE URANIUM-238 DECAY CHAIN

Isotope	Bi-214	Pa-234	Pb-210	Pb-214	Ra-226	Th-230	Th-234	U-234	U-238
Bi-214		0.03	**0.27**	**0.80**	**0.69**	**0.71**	**0.32**	**0.70**	**0.67**
Pa-234	0.03		0.06	0.12	**0.21**	0.19	**0.23**	0.09	0.11
Pb-210	**0.27**	0.06		**0.24**	**0.23**	**0.22**	0.10	0.19	0.14
Pb-214	**0.80**	0.12	**0.24**		**0.75**	**0.73**	**0.32**	**0.73**	**0.68**
Ra-226	**0.69**	**0.21**	**0.23**	**0.75**		**0.66**	**0.36**	**0.69**	**0.70**
Th-230	**0.71**	0.19	**0.22**	**0.73**	**0.66**		**0.24**	**0.78**	**0.78**
Th-234	**0.32**	**0.23**	0.10	**0.32**	**0.36**	**0.24**		**0.31**	**0.31**
U-234	**0.70**	0.09	0.19	**0.73**	**0.69**	**0.78**	**0.31**		**0.88**
U-238	**0.67**	0.11	0.14	**0.68**	**0.70**	**0.78**	**0.31**	**0.88**	

Notes:

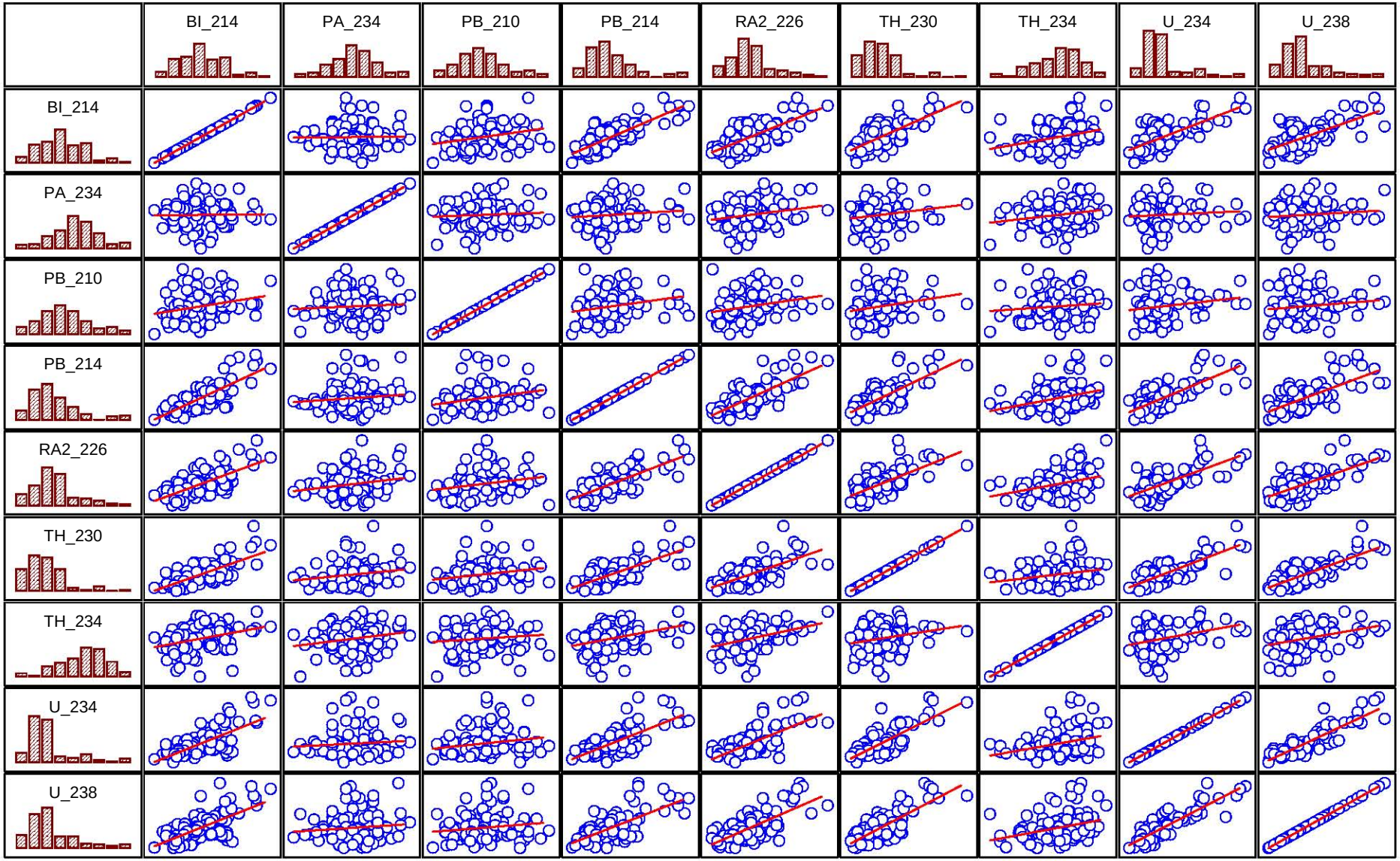
Bi Bismuth
Pa Protactinium
Pb Lead
Ra Radium
Th Thorium
U Uranium

Statistically significant r-values shown in bold-face font, where significance taken at $p < 0.05$

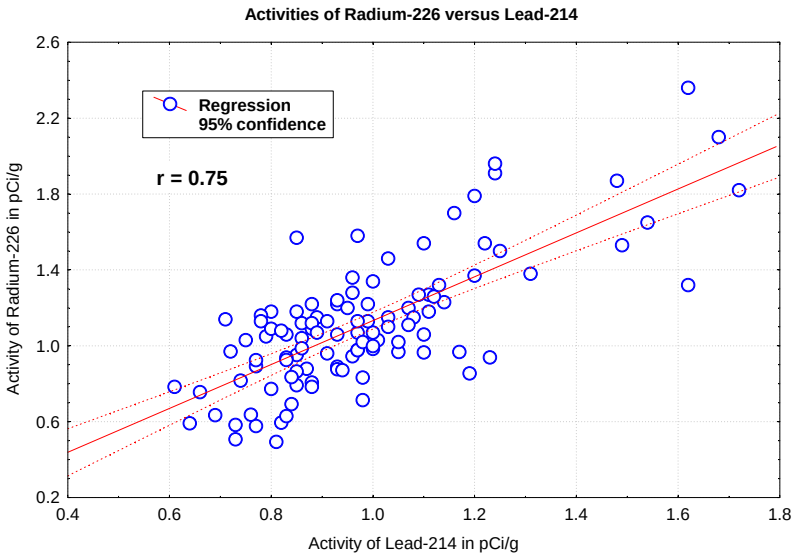
Associated Figures

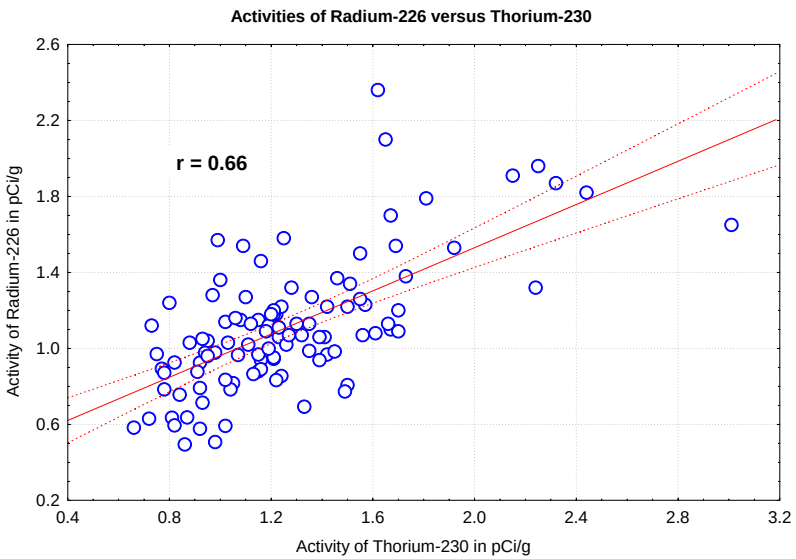
Correlations for Uranium-238 Decay Chain
Correlation of Radium-226 with Members of U-238 Decay Chain
Calculated Mass versus Measured Mass for Uranium
Activity of Uranium-234 versus Uranium-238

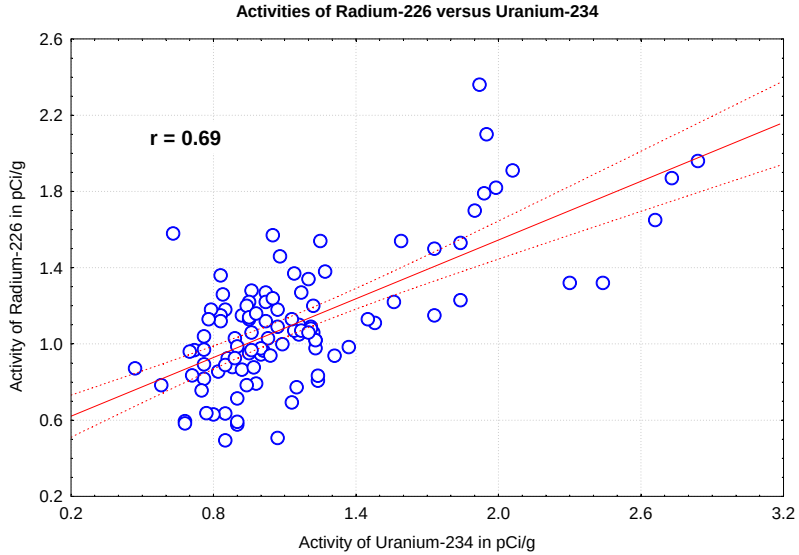
Correlations for Uranium-238 Decay Chain

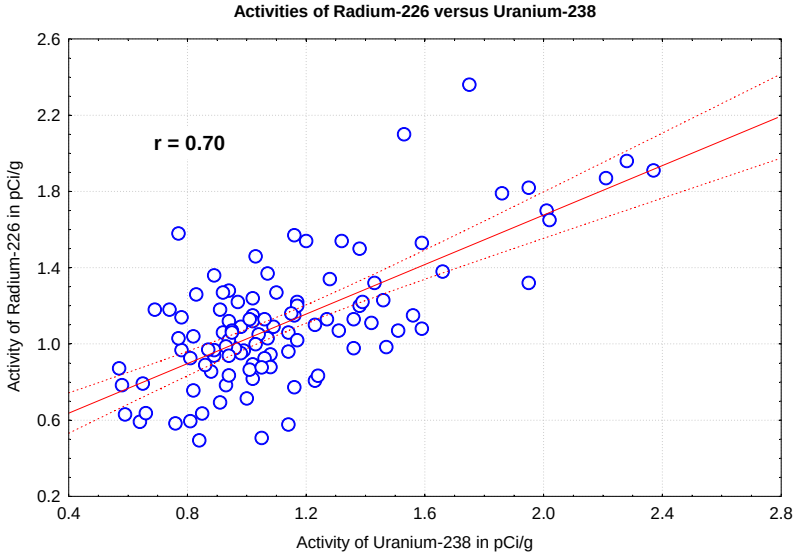


Correlation of Radium-226 with Members of U-238 Decay Chain for BRC/TIMET Data



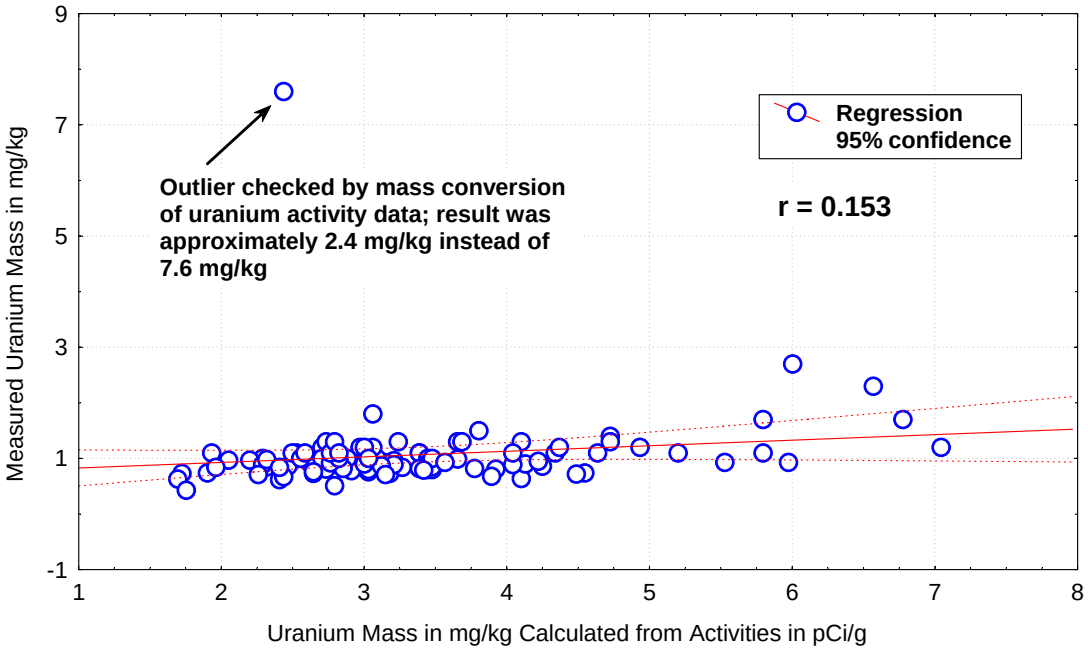






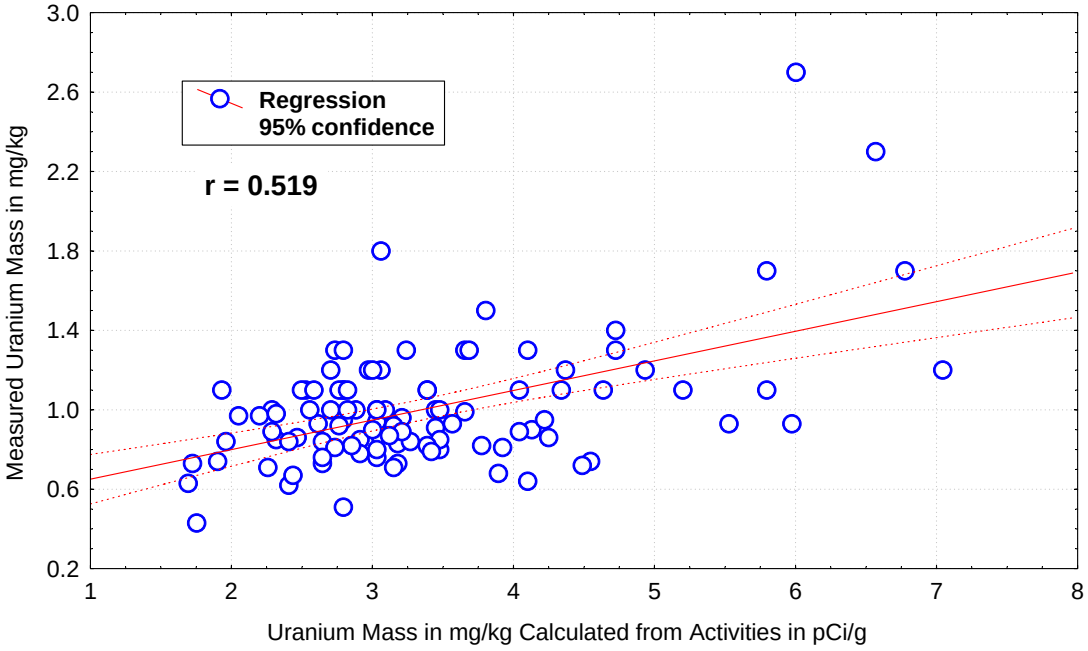
Calculated Mass versus Measured Mass for Uranium in BRCTIM Background Soil
Includes Outlier of 7.6 mg/kg for Measured Uranium Mass

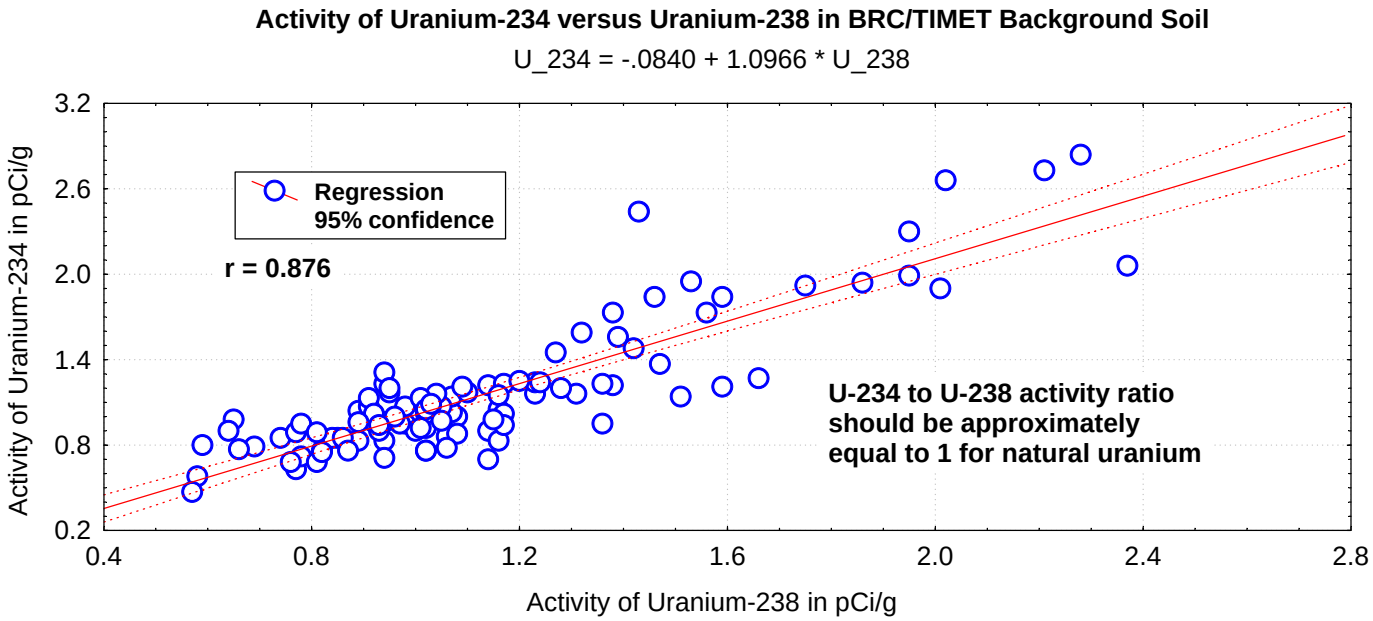
U = .73044 + .09964 * CALC_U

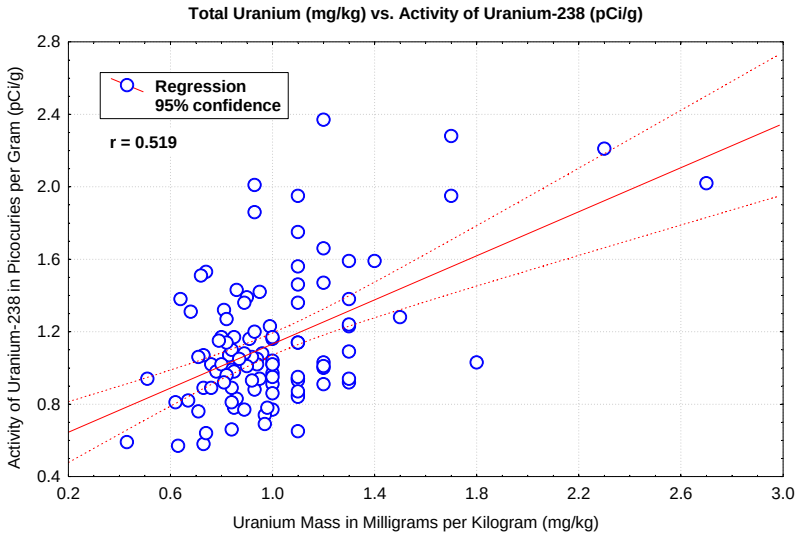


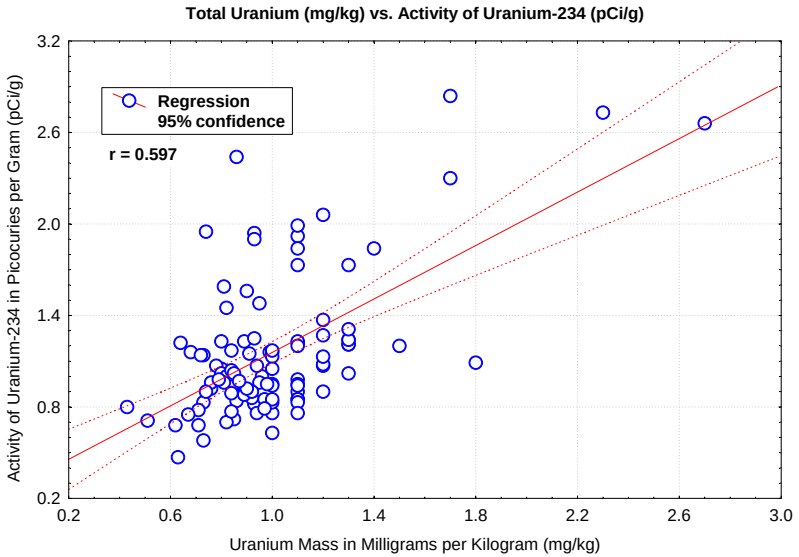
Calculated Mass versus Measured Mass for Uranium in BRCTIM Background Soil
Excluding Outlier of 7.6 mg/kg for Measured Uranium Mass

U = .50145 + .14900 * CALC_U




Activity of Uranium-234 versus Uranium-238 in BRC/TIMET Background Soil
U_234 = -.0840 + 1.0966 * U_238
Regression
95% confidence
r = 0.876
U-234 to U-238 activity ratio
should be approximately
equal to 1 for natural uranium
Activity of Uranium-234 in pCi/g
Activity of Uranium-238 in pCi/g
3.2
2.6
2.0
1.4
0.8
0.2
0.4
0.8
1.2
1.6
2.0
2.4
2.8


Total Uranium (mg/kg) vs. Activity of Uranium-238 (pCi/g)
Regression
95% confidence
r = 0.519
Activity of Uranium-238 in Picocuries per Gram (pCi/g)
Uranium Mass in Milligrams per Kilogram (mg/kg)
2.8
2.4
2.0
1.6
1.2
0.8
0.4
0.2
0.6
1.0
1.4
1.8
2.2
2.6
3.0


Total Uranium (mg/kg) vs. Activity of Uranium-234 (pCi/g)
Regression
95% confidence
r = 0.597
Activity of Uranium-234 in Picocuries per Gram (pCi/g)
Uranium Mass in Milligrams per Kilogram (mg/kg)
3.2
2.6
2.0
1.4
0.8
0.2
0.6
1.0
1.4
1.8
2.2
2.6
3.0

APPENDIX F

STATISTICAL SUMMARY FOR ENVIRON DATA AND BRC/TIMET ENVIRON COMPARISONS

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All Environ Background Soil Samples (Table F-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ Surface Soil Samples (Table F-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 5-Foot Background Soil Samples (Table F-3)

Comparison of Metal and Anion Concentrations in BRC/TIMET and Environ Background Soil (Figure F-1)

Comparison of Radionuclide Activities in BRC/TIMET and Environ Background Soil (Figure F-2)

Table F-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	16	100	--	--	--	--	--	--	6,820	8,940	10,300	10,100	11,700	12,700
	Antimony	16	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	16	100	--	--	--	--	--	--	2.1	2.6	3.05	3.03	3.38	4.3
	Barium	16	100	--	--	--	--	--	--	198	225	333	323	393	561
	Beryllium	16	100	--	--	--	--	--	--	0.25	0.295	0.39	0.374	0.425	0.5
	Cadmium	16	100	--	--	--	--	--	--	0.052	0.0928	0.105	0.106	0.128	0.16
	Chromium	16	100	--	--	--	--	--	--	4.3	6.7	7.9	7.81	8.9	12.4
	Cobalt	16	100	--	--	--	--	--	--	3.9	4.13	5.95	5.67	6.95	7.8
	Copper	16	100	--	--	--	--	--	--	7.8	8.5	10.6	10.6	12.3	16.3
	Iron	16	100	--	--	--	--	--	--	7,520	9,310	12,400	11,700	14,300	15,000
	Lead	16	100	--	--	--	--	--	--	7	9.5	15	15.3	20.3	23.5
	Magnesium	16	100	--	--	--	--	--	--	4,630	5,140	7,280	6,920	8,560	9,090
	Manganese	16	100	--	--	--	--	--	--	223	377	439	437	517	546
	Mercury	16	100	--	--	--	--	--	--	0.013	0.0173	0.019	0.0198	0.0235	0.027
	Molybdenum	16	100	--	--	--	--	--	--	0.17	0.22	0.275	0.295	0.35	0.44
	Nickel	16	100	--	--	--	--	--	--	7.8	9.43	10.8	10.7	11.5	15.4
	Selenium	16	75	0.0467	0.0467	0.0467	0.0467	0.0467	0.0467	0.1	0.11	0.17	0.158	0.188	0.26
	Silver	16	100	--	--	--	--	--	--	0.019	0.0363	0.0445	0.0495	0.0683	0.083
	Thallium	16	100	--	--	--	--	--	--	0.1	0.13	0.155	0.183	0.203	0.4
	Thorium	16	100	--	--	--	--	--	--	4.6	5.08	5.65	5.88	6.68	7.7
	Titanium	16	100	--	--	--	--	--	--	235	296	363	359	423	473
	Vanadium	16	100	--	--	--	--	--	--	14.6	16.1	21.2	20.7	24.8	25.5
	Zinc	16	100	--	--	--	--	--	--	23	29.3	42.9	39.8	49.4	52.4
Radionuclides (pCi/g)	Actinium-228	16	100	--	--	--	--	--	--	1.11	1.36	1.54	1.59	1.86	2.05
	Bismuth 212	16	25	0.31	0.75	0.885	0.89	1.01	1.3	1.27	1.29	1.4	1.45	1.65	1.72
	Bismuth-214	16	100	--	--	--	--	--	--	0.57	0.728	0.865	0.871	1.01	1.22
	Lead-210	16	6	0.7	1.1	1.5	1.47	1.8	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	16	100	--	--	--	--	--	--	0.94	1.09	1.27	1.25	1.42	1.47
	Lead-214	16	100	--	--	--	--	--	--	0.62	0.73	0.85	0.844	0.933	1.23
	Potassium-40	16	100	--	--	--	--	--	--	23.6	26.3	28.5	28.4	29.9	34.4
	Thallium-208	16	100	--	--	--	--	--	--	0.33	0.43	0.495	0.481	0.538	0.59
	Thorium-228	16	100	--	--	--	--	--	--	1.07	1.29	1.51	1.55	1.77	2.14
	Thorium-230	16	100	--	--	--	--	--	--	0.88	0.985	1.1	1.12	1.23	1.38
	Thorium-232	16	100	--	--	--	--	--	--	1.1	1.33	1.51	1.5	1.66	1.93
	Thorium-234	16	6	-0.15	0.04	0.51	0.44	0.71	1.23	1.49	--	1.49	1.49	--	1.49
	Uranium 233/234	16	100	--	--	--	--	--	--	0.53	0.655	0.775	0.773	0.89	1.11
	Uranium 235	16	56	0.016	0.023	0.036	0.036	0.049	0.051	0.055	0.0625	0.091	0.0842	0.103	0.116
	Uranium-238	16	100	--	--	--	--	--	--	0.45	0.633	0.78	0.755	0.868	1.07

Notes:

bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ background soil samples

Table F-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	7,650	8,940	10,300	10,300	11,900	12,700
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.1	2.73	3.25	3.15	3.45	4.3
	Barium	8	100	--	--	--	--	--	--	200	233	304	307	383	426
	Beryllium	8	100	--	--	--	--	--	--	0.28	0.303	0.39	0.378	0.425	0.49
	Cadmium	8	100	--	--	--	--	--	--	0.092	0.102	0.11	0.119	0.138	0.16
	Chromium	8	100	--	--	--	--	--	--	7.2	7.85	8.45	8.98	10.1	12.4
	Cobalt	8	100	--	--	--	--	--	--	4.1	4.3	6	5.75	6.95	7.3
	Copper	8	100	--	--	--	--	--	--	8.1	9.08	11.6	11.4	12.4	16.3
	Iron	8	100	--	--	--	--	--	--	8,960	9,630	12,700	12,300	14,500	15,000
	Lead	8	100	--	--	--	--	--	--	14.6	15.5	18.4	18.7	22.7	23.5
	Magnesium	8	100	--	--	--	--	--	--	4,880	5,870	7,480	7,230	8,540	8,880
	Manganese	8	100	--	--	--	--	--	--	373	395	439	446	493	545
	Mercury	8	100	--	--	--	--	--	--	0.019	0.0195	0.0215	0.0223	0.0248	0.027
	Molybdenum	8	100	--	--	--	--	--	--	0.27	0.278	0.335	0.338	0.403	0.42
	Nickel	8	100	--	--	--	--	--	--	8.4	10.2	10.9	11.2	12	15.4
	Selenium	8	75	0.0467	--	0.0467	0.0467	--	0.0467	0.11	0.125	0.17	0.158	0.183	0.19
	Silver	8	100	--	--	--	--	--	--	0.036	0.0363	0.05	0.0526	0.0683	0.083
	Thallium	8	100	--	--	--	--	--	--	0.13	0.13	0.16	0.189	0.27	0.32
	Thorium	8	100	--	--	--	--	--	--	5	5.08	6.1	5.95	6.68	7
	Titanium	8	100	--	--	--	--	--	--	285	296	407	379	440	473
	Vanadium	8	100	--	--	--	--	--	--	15.7	16.3	21.2	20.7	24.6	24.8
	Zinc	8	100	--	--	--	--	--	--	29.1	32.9	44.2	42.5	50.9	52.4
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.36	1.36	1.65	1.64	1.86	2.05
	Bismuth 212	8	38	0.75	0.785	0.82	0.922	1.11	1.24	1.27	1.27	1.34	1.35	1.45	1.45
	Bismuth-214	8	100	--	--	--	--	--	--	0.64	0.69	0.84	0.829	0.953	1.02
	Lead-210	8	0	0.9	1.13	1.55	1.5	1.78	2.2	--	--	--	--	--	--
	Lead-212	8	100	--	--	--	--	--	--	0.94	1.13	1.28	1.26	1.41	1.47
	Lead-214	8	100	--	--	--	--	--	--	0.68	0.79	0.825	0.839	0.92	1
	Potassium-40	8	100	--	--	--	--	--	--	24.9	26.6	29.2	29.1	30.8	34.4
	Thallium-208	8	100	--	--	--	--	--	--	0.43	0.443	0.495	0.495	0.528	0.58
	Thorium-228	8	100	--	--	--	--	--	--	1.27	1.29	1.47	1.55	1.84	2.14
	Thorium-230	8	100	--	--	--	--	--	--	0.88	0.96	1.14	1.12	1.23	1.35
	Thorium-232	8	100	--	--	--	--	--	--	1.13	1.28	1.48	1.47	1.64	1.79
	Thorium-234	8	13	-0.11	0.23	0.51	0.406	0.56	0.71	1.49	--	1.49	1.49	--	1.49
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.598	0.74	0.789	1.01	1.11
	Uranium 235	8	50	0.028	0.03	0.0425	0.0405	0.049	0.049	0.064	0.0723	0.0995	0.0915	0.103	0.103
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.668	0.83	0.775	0.89	0.92

Notes:

bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ 0 foot background soil samples

Table F-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	6,820	7,590	10,300	9,860	11,500	12,300
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.3	2.45	2.75	2.91	3.38	3.8
	Barium	8	100	--	--	--	--	--	--	198	215	333	340	447	561
	Beryllium	8	100	--	--	--	--	--	--	0.25	0.295	0.385	0.371	0.438	0.5
	Cadmium	8	100	--	--	--	--	--	--	0.052	0.0678	0.096	0.0931	0.115	0.14
	Chromium	8	100	--	--	--	--	--	--	4.3	5.1	6.8	6.64	7.8	9.6
	Cobalt	8	100	--	--	--	--	--	--	3.9	3.95	5.5	5.59	7.15	7.8
	Copper	8	100	--	--	--	--	--	--	7.8	8.18	9.5	9.9	11.8	12.4
	Iron	8	100	--	--	--	--	--	--	7,520	8,100	11,500	11,200	13,800	14,500
	Lead	8	100	--	--	--	--	--	--	7	8.78	9.6	11.8	13.6	23.3
	Magnesium	8	100	--	--	--	--	--	--	4,630	4,780	6,330	6,600	8,560	9,090
	Manganese	8	100	--	--	--	--	--	--	223	350	450	428	526	546
	Mercury	8	100	--	--	--	--	--	--	0.013	0.0143	0.0175	0.0174	0.019	0.024
	Molybdenum	8	100	--	--	--	--	--	--	0.17	0.213	0.22	0.253	0.275	0.44
	Nickel	8	100	--	--	--	--	--	--	7.8	8.83	10.6	10.2	11.5	11.9
	Selenium	8	75	0.0467	--	0.0467	0.0467	--	0.0467	0.1	0.1	0.145	0.157	0.208	0.26
	Silver	8	100	--	--	--	--	--	--	0.019	0.0278	0.044	0.0464	0.069	0.077
	Thallium	8	100	--	--	--	--	--	--	0.1	0.123	0.15	0.178	0.198	0.4
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Titanium	8	100	--	--	--	--	--	--	235	265	330	339	413	446
	Vanadium	8	100	--	--	--	--	--	--	14.6	15.5	21.1	20.6	25.4	25.5
	Zinc	8	100	--	--	--	--	--	--	23	26.1	37.5	37	47.1	52.4
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.11	1.24	1.54	1.55	1.87	1.99
	Bismuth 212	8	13	0.31	0.75	0.95	0.867	1.02	1.3	1.72	--	1.72	1.72	--	1.72
	Bismuth-214	8	100	--	--	--	--	--	--	0.57	0.758	0.905	0.914	1.12	1.22
	Lead-210	8	13	0.7	0.72	1.42	1.43	1.9	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	8	100	--	--	--	--	--	--	1	1.06	1.25	1.24	1.43	1.44
	Lead-214	8	100	--	--	--	--	--	--	0.62	0.673	0.86	0.849	0.933	1.23
	Potassium-40	8	100	--	--	--	--	--	--	23.6	26.2	27.6	27.8	29.9	31.3
	Thallium-208	8	100	--	--	--	--	--	--	0.33	0.345	0.495	0.466	0.57	0.59
	Thorium-228	8	100	--	--	--	--	--	--	1.07	1.3	1.6	1.55	1.77	1.9
	Thorium-230	8	100	--	--	--	--	--	--	0.9	0.985	1.09	1.13	1.32	1.38
	Thorium-232	8	100	--	--	--	--	--	--	1.1	1.34	1.54	1.54	1.76	1.93
	Thorium-234	8	0	-0.15	0.0085	0.505	0.47	0.868	1.23	--	--	--	--	--	--
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.68	0.795	0.756	0.825	0.91
	Uranium 235	8	63	0.016	0.016	0.023	0.03	0.051	0.051	0.055	0.058	0.069	0.0784	0.104	0.116
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.603	0.74	0.735	0.848	1.07

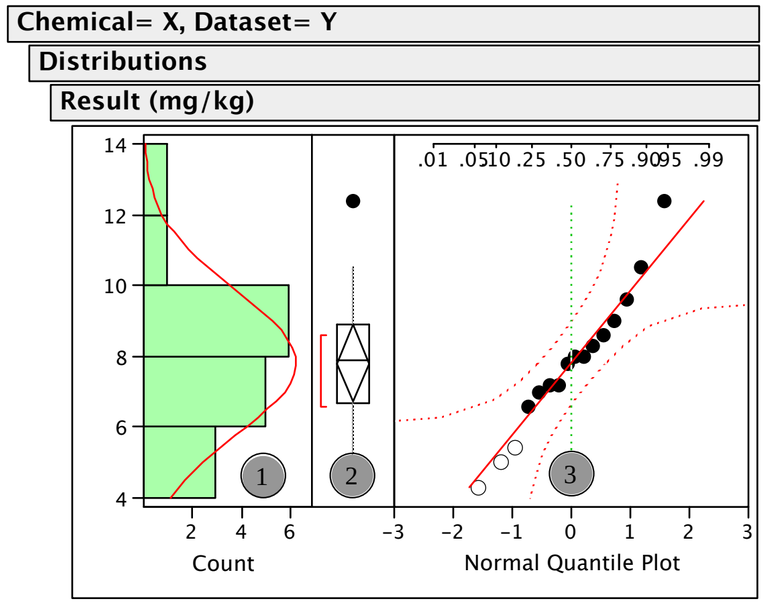
Notes:

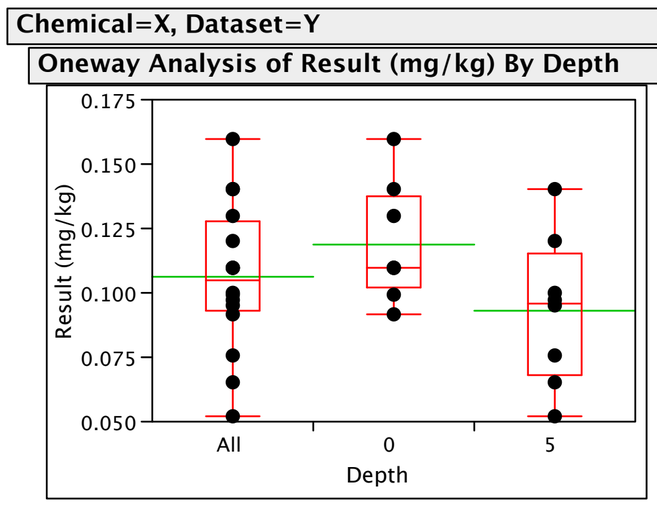
bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ 5 foot background soil samples

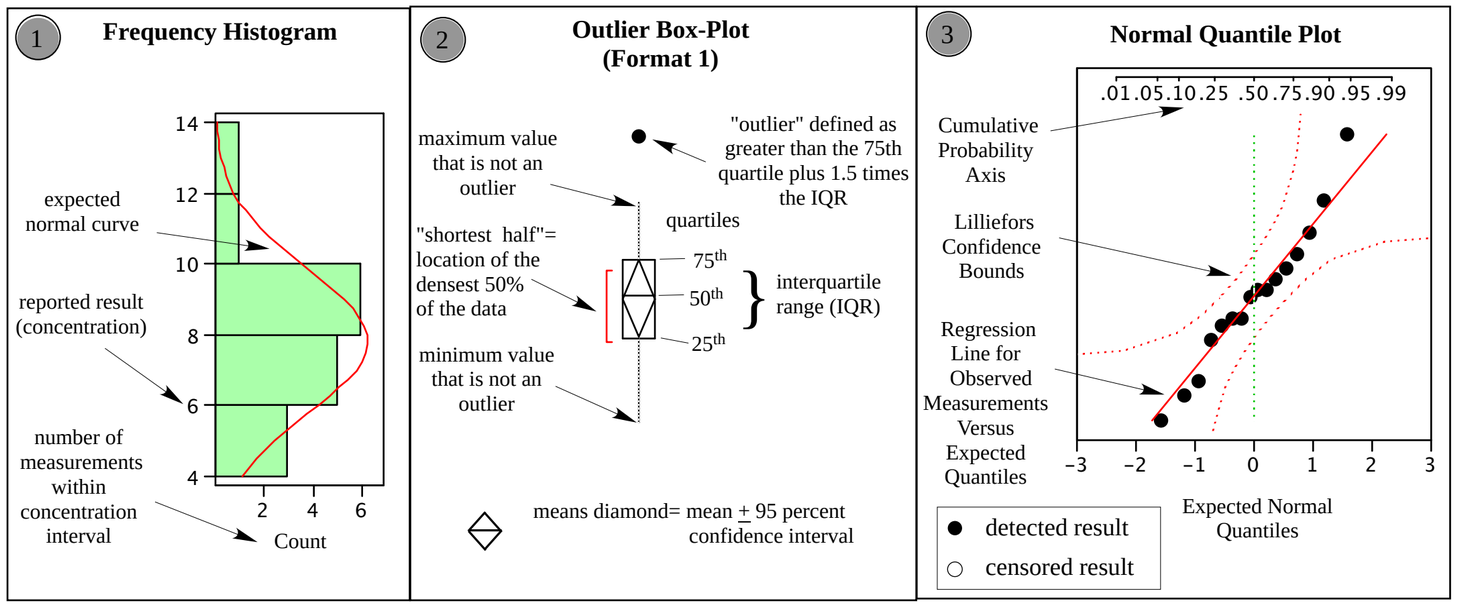
KEYS FOR INTERPRETING FIGURES

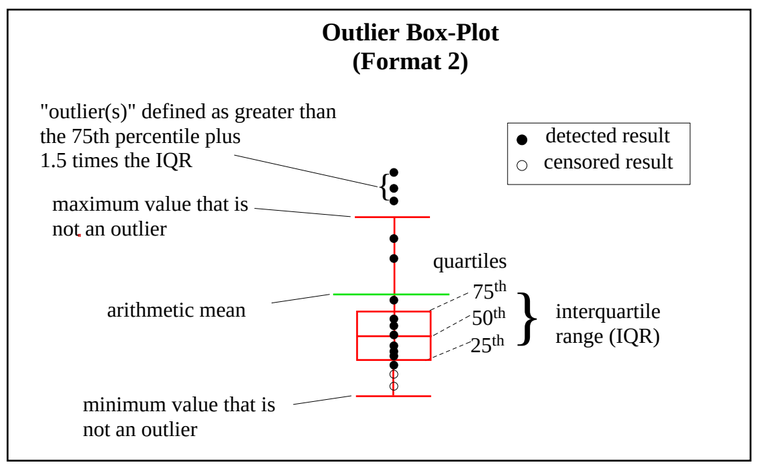
Example Figures From Appendix

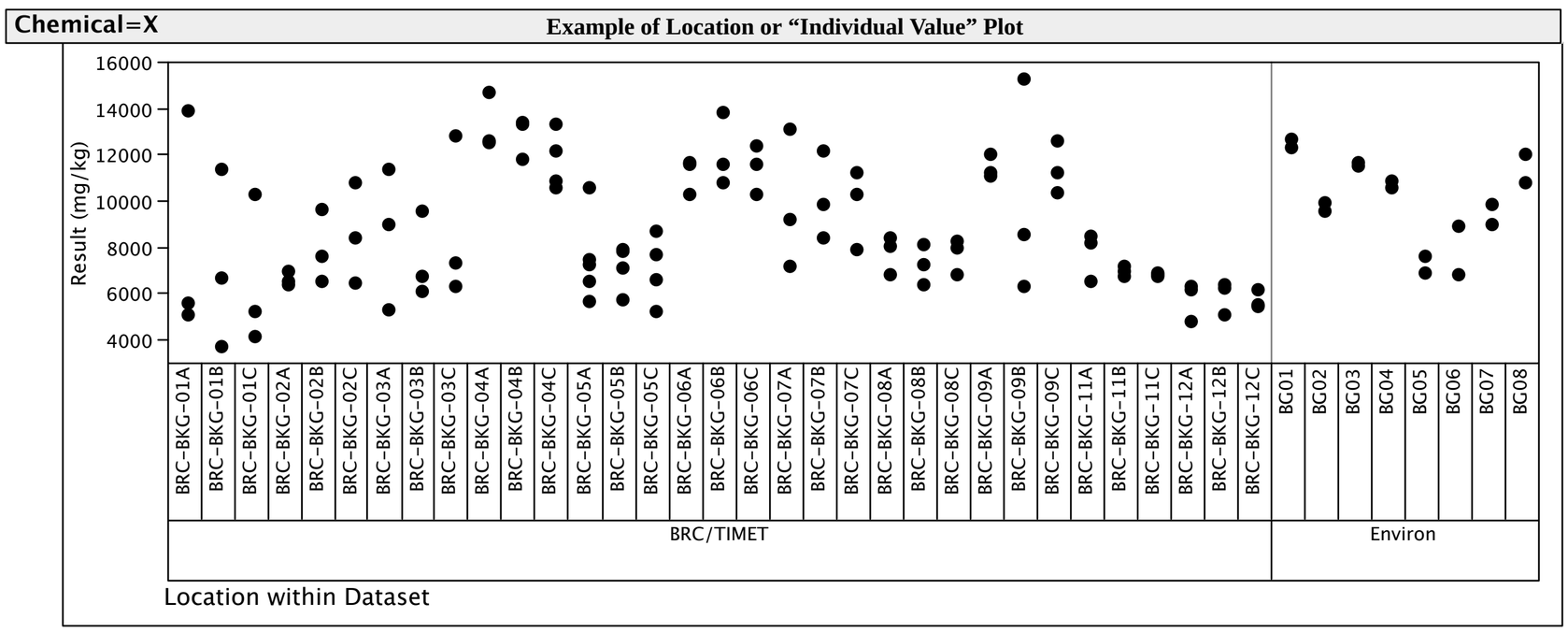




Keys to Individual Figure Panels







Results are Plottted for Individual Locations and Grouped by Dataset

TABLE 1
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BCG-03A 3-7 [a]	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-06C 8-12 [a]	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-09C 0-0.5 [a]	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 4-6	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 3-7	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-03B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 4-6	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C1 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 9-11	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 0-0.5	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-06A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 8-12	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 4-6	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 9-11	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A-0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-09-A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 0-0.5	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 0-0.5	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
RINSATE BLANK	06/16/05	F5F170373	Water	Partial	X	X	X	X	X	--	--	--	--	X
RINSATE BLANK	06/16/05	F5F180132	Water	Partial	X	X	X	X	X	--	--	--	--	--
RINSATE BLANK-RB	06/17/05	F5F210233	Water	Partial	X	X	X	X	X	--	--	--	--	X

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

α & β	Alpha and beta
CEC	Cation exchange capacity
Cr VI	Hexavalent chromium
Ra	Radium
SDG	Sample delivery group
Spec	Spectroscopy
Th	Thorium
U	Uranium

[a] Three sample represent the field split samples used for quality control purposes.

TABLE 2
DATA VALIDATION CRITERIA
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Inorganics Validation Criteria [1]	**Full**	**Partial**
Holding times	X	X
Calibration (initial and continuing)	X	--
Blanks (laboratory and field)	X	X
ICP interference check sample	X	--
Laboratory control sample	X	X
Duplicate sample analysis	X	X
Matrix spike analysis	X	X
ICP serial dilution	X	X
Tracer yield (radionuclide analysis only)	X	X
Sample results verification	X	--
Field duplicate	X	X
Overall assessment of data set	X	X

Notes:

-- Not included
ICP Inductively coupled plasma

1 Inorganics include metals, anions, and radionuclides.

TABLE 3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Validation Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
X	Result is not used for reporting because a more accurate and precise results is reported in its place.
+	Estimated results are possibly biased high based on associated quality control
–	Estimated results are possibly biased low based on associated quality control
Comment Code	**Definition**
a	Surrogate recovery exceeded
b	Laboratory method blank and common blank contamination
c	Calibration criteria exceeded
d	Duplicate precision criteria exceeded
e	Matrix spike or laboratory control sample recovery exceeded
f	Field blank contamination
g	Quantification below practical quantitation limit for stable chemistries
h	Holding time exceeded
i	Internal standard criteria exceeded
j	Other stable chemistry qualification (for example, serial dilution exceedances)
k	Radiochemistry quantitation issue (for example, result less than the required reporting limit)
l	Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy)
m	Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis)
n	Radiochemistry tracer yield criteria exceeded
o	Other radiochemistry qualification (for example, biases due to interference from other radioisotopes)

TABLE 4
HOLDING TIMES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Parameter	Aqueous Matrix	Soil/Sediment Matrix
Total metals (except mercury)	180 days	180 days
Total mercury	28 days	28 days
Hexavalent chromium	24 hours	30 days
Bicarbonate alkalinity	14 days	14 days
Anions (fluoride, chloride, nitrate, nitrite, and sulfate)	28 days; 48 hours for nitrate and nitrite only	28 days for all; 72 hours for nitrate and nitrite [1]
pH	48 hours	72 hours [2]
Radionuclides	180 days	180 days
Cation exchange capacity (calculated)	Not applicable	Not applicable

Notes:

[1] No definite holding time has been established for anions in soil. The laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer.

[2] No definite holding time has been established for pH in soil. The laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer.

TABLE 5
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrate	0.1	0.35		J	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	pH (solid)		9.1		J	h	none
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrate	0.11	0.62		J	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrate	0.1	0.22		J	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrate	0.11	0.71		J	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7		R	h	none
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrate	0.11	3.4		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrate	0.1	3.3		J	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrate	0.11	0.93		J	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrite	0.066	ND	U	UJ	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	pH (solid)		8.7		J	h	none
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrate	0.1	1.3		J	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrate	0.1	2.6		J	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrate	0.1	9.3		J	h	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrate	1	58.6		J	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrate	1	20.8		J	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrate	1	54.9		J	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrate	0.1	10.4		J	h	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrate	0.11	1.8		J	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrate	0.1	3.2		J	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrate	0.1	0.41		J	h	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrate	0.1	6.7		J	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrate	0.1	3.8		J	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrate	0.1	2.8		J	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrate	1	53.4		J	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	pH (solid)		8.1		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrate	5.2	34		J	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrate	0.1	6.2		J	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrate	0.1	0.47		J	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrate	0.1	4.7		J	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrate	0.1	0.31		J	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrate	5.1	102		J	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrate	1	42.1		J	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	pH (solid)		8.4		J	h	none
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrate	1	75.8		J	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrate	1	34.5		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrate	0.1	0.37		J	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrate	1	14.6		J	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrate	0.1	2.1		J	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrate	1	26.1		J	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrate	1	26.3		J	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrate	5.1	14.9		J	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrite	0.061	0.21		J	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrate	0.11	0.66		J	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrate	0.1	2.9		J	h	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrate	5.2	86.2		J	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrate	5.2	28.1		J	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrate	0.11	1.6		J	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrate	0.11	0.67		J	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrate	0.1	0.58		J	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	pH (solid)		8		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrate	0.1	0.63		J	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrate	0.1	0.87		J	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrate	0.1	0.59		J	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrate	0.1	0.61		J	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrite	0.063		U	UJ	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrate	0.13	0.87		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrite	0.077	ND	U	UJ	h	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrate	0.11	0.9		J	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrate	0.11	0.65		J	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrate	0.11	0.96		J	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrate	0.1	0.57		J	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrate	0.11	2.4		J	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrate	0.1	0.64		J	h	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrate	0.1	0.45		J	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrate	0.11	0.69		J	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrate	0.1	0.49		J	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	pH (solid)		8.2		J	h	none

Notes:

B Analyte was detected at a concentration less than the PQL
mg/kg Milligram per kilogram
g Comment code for concentrations greater than the SQL, but less than the PQL
h Comment code for holding time exceedance
J Estimated value
ND Not detected
PQL Practical quantitation limit
R Sample result was rejected due to quality control issues
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected
UJ Undetected at an estimated quantitation limit

1 The RL in this table refers to the PQL for anions and pH.
2 "ND" indicates that the analyte was not detected above the associated SQL.

TABLE 6
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Fluoride	0.053	0.89	B J	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35	J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 233/234	0.08	0.76	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Boron	3.2	5	B	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Fluoride	0.054	1.5	J	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91	J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 233/234	0.1	0.85	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Chloride	0.25	0.38	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46	J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 231	0.04	0.059	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Fluoride	0.053	0.76	B J	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59	J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 231	0.038	0.043	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 233/234	0.08	0.9	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 231	0.041	0.061	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 233/234	0.06	0.85	J	U	b	pci/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Chloride	0.26	1.8	B	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Fluoride	0.054	1	B J	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47	J	U	k, b	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Chloride	0.26	1.6	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Fluoride	0.053	1.6	J	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 231	0.096	0.101	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 233/234	0.1	0.86	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11	J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thallium	0.5428	0.75	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 231	0.063	0.101	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 233/234	0.08	0.97	J	U	b	pci/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Boron	3.2	5.6		J+	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Chloride	0.25	0.74	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82	J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 233/234	0.12	0.68	J	U	b	pci/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Fluoride	0.054	2.5	J	J+	b	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015		N U	UJ-	b, e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium 233/234	0.09	1.07		U	b	pci/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78	J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Sulfate	0.62	3.3	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium 233/234	0.16	0.76	J	U	b	pci/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Uranium 233/234	0.1	0.9	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Boron	3.2	3.6	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Chloride	0.27	1.8	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Fluoride	0.055	2.1		U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5	J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 231	0.045	0.083	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 233/234	0.08	0.83	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Chloride	0.25	0.51	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86	J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Sulfate	0.62	2.8	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 231	0.042	0.124	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 233/234	0.08	0.88	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Chloride	0.25	1.8	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 231	0.048	0.054	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Boron	3.2	8.8		J+	b	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 233/234	0.15	0.98	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Fluoride	0.053	0.58	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thallium	0.5428	0.98	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 231	0.1	0.12	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 233/234	0.11	0.92	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Boron	3.2	5.5		J+	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Fluoride	0.053	0.93	B	U	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 231	0.077	0.087	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 233/234	0.1	0.95	J	U	b	pci/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Fluoride	0.053	1.4		U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thallium	0.5428	0.71	B	U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 233/234	0.11	0.94	J	U	b	pci/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium 233/234	0.08	1.25		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 231	0.036	0.054	J	U	b	pci/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 233/234	0.06	0.79	J	U	b	pci/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Chloride	0.25	1.3	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sulfate	0.62	4.8	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 233/234	0.05	0.95	J	U	b	pci/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Fluoride	0.054	1.2		U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thallium	0.5428	1.1	B	U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Boron	3.2	5.1	B	U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Fluoride	0.053	1.6		U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thallium	0.5428	0.57	B	U	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Boron	3.2	6.2		J+	b	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Boron	3.2	6.3		J+	b	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Thallium	0.5428	0.36	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Boron	3.2	5.4		J+	b	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thallium	0.5428	0.22	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thallium	0.5428	0.54	B	U	b	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thallium	0.5428	0.51	B	U	b	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thallium	0.5428	0.48	B	U	b	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thallium	0.5428	0.66	B	U	b	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thallium	0.5428	0.76	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Chloride	0.25	1.6	B J	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 233/234	0.12	0.63	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Fluoride	0.053	1.2		U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thallium	0.5428	0.32	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 231	0.05	0.12	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Boron	3.2	7.1		J+	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Fluoride	0.052	0.72	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thallium	0.5428	0.44	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 231	0.039	0.043	J	U	b	pci/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Boron	3.2	6		J+	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Fluoride	0.051	0.36	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 231	0.037	0.042	J	U	b	pci/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 233/234	0.05	0.72	J	U	b	pci/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Fluoride	0.052	0.6	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Boron	3.2	11.6		J+	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Fluoride	0.052	0.61	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 233/234	0.11	1.02		U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Fluoride	0.053	0.55	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 231	0.068	0.093	J	U	b	pci/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Fluoride	0.053	0.79	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thorium 231	0.038	0.126	J	J+	b	pci/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Boron	3.2	7.8		J+	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Fluoride	0.052	0.52	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Fluoride	0.053	0.77	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 231	0.066	0.089	J	U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Fluoride	0.053	0.75	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Thorium 231	0.03	0.21	J	J+	b	pci/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Fluoride	0.052	0.36	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thallium	0.5428	0.68	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 231	0.051	0.076	J	U	b	pci/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 233/234	0.09	1.22		J+	b	pci/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thallium	0.5428	0.79	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium 233/234	0.08	0.92	J	U	b	pci/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Chloride	0.25	1.5	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Fluoride	0.052	0.34	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium 233/234	0.12	1	J	U	b	pci/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thallium	0.5428	0.61	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 233/234	0.1	1.01		U	b	pci/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Fluoride	0.052	0.76	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium 233/234	0.09	1.03		U	b	pci/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Boron	3.2	5.7		J+	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Uranium 233/234	0.15	1.22		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thallium	0.5428	0.56	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium 233/234	0.15	1.14		U	b	pci/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Fluoride	0.052	0.4	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Niobium	1.015	2	BN	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium 233/234	0.13	1.17		U	b	pci/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Chloride	0.25	0.77	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Sulfate	0.62	2.2	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thallium	0.5428	0.96	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 233/234	0.07	0.85	J	U	b	pci/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Fluoride	0.052	0.63	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thallium	0.5428	0.28	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium 233/234	0.1	1.16		U	b	pci/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 233/234	0.07	0.95	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thallium	0.5428	0.24	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 231	0.042	0.077	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Boron	3.2	5.2		J+	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Chloride	0.25	1.4	B J	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Sulfate	0.62	3.5	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium 233/234	0.06	1.05		U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Fluoride	0.054	0.32	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 233/234	0.12	1.23		J+	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Boron	3.2	7.7		J+	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Fluoride	0.053	0.23	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 231	0.094	0.099	J	U	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Boron	3.2	5.3		J+	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Chloride	0.25	1.7	B J	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thallium	0.5428	0.63	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 231	0.072	0.098	J	U	b	pci/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 233/234	0.09	0.84	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Fluoride	0.053	0.29	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 233/234	0.12	1.07		U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Boron	3.2	8.6		J+	b	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Chloride	0.25	0.96	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Niobium	1.015	2.4	BN	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Sulfate	0.61	3.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 231	0.049	0.054	J	U	b	pci/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tungsten	0.0175	1.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 233/234	0.1	0.8	J	U	b	pci/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Chloride	0.26	0.86	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Niobium	1.015	1.6	BN	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tungsten	0.0175	0.99	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 233/234	0.06	0.77	J	U	b	pci/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thallium	0.5428	0.9	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tungsten	0.0175	0.81	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 233/234	0.13	0.68	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Chloride	0.25	0.72	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 233/234	0.11	0.98	J	U	b	pci/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tungsten	0.0175	0.65	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium 233/234	0.08	1.05		U	b	pci/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Boron	3.2	10.2		J+	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Chloride	2.6	6.2	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tungsten	0.0175	0.94	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tungsten	0.0175	0.67	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tungsten	0.0175	0.66	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Boron	3.2	8.2		J+	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Chloride	0.25	1.2	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Sulfate	0.62	1.7	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tungsten	0.0175	1.6	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 233/234	0.14	0.82	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 231	0.04	0.17	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tungsten	0.0175	1.2	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Chloride	0.25	0.93	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Sulfate	0.62	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 231	0.07	0.13	J	U	b	pci/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 233/234	0.14	0.71	J	U	b	pci/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tungsten	0.0175	0.78	B	U	b	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 233/234	0.08	0.75	J	U	b	pci/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thallium	0.5428	0.93	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Tungsten	0.0175	0.96	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 233/234	0.11	0.58	J	U	b	pci/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Chloride	0.25	1	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Sulfate	0.61	2.7	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tungsten	0.0175	0.68	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 233/234	0.13	0.47	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Chloride	0.26	1.7	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 231	0.068	0.076	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tungsten	0.0175	0.71	B	U	b	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 233/234	0.05	0.9	J	U	b	pci/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thallium	0.5428	0.95	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tungsten	0.0175	1.5	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Chloride	0.25	0.97	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Sulfate	0.62	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 233/234	0.04	0.83	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Sulfate	0.77	2.2	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 231	0.036	0.053	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 231	0.033	0.037	J	U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tungsten	0.0175	0.84	B	U	b	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 233/234	0.03	0.96	J	U	b	pci/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Sulfate	0.62	0.86	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tungsten	0.0175	0.73	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 233/234	0.11	0.83	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Chloride	0.26	1.6	B J	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Sulfate	0.64	3.1	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 233/234	0.09	0.95	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thallium	0.5428	0.58	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 231	0.01	0.102	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium 233/234	0.14	1.23		J+	b	pci/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Chloride	0.25	0.84	B J	U	b	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 233/234	0.08	1	J	U	b	pci/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium 233/234	0.12	1.14		U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 233/234	0.1	1.04		U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Chloride	0.25	1.3	B J	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Sulfate	0.62	1.4	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 231	0.041	0.06	J	U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 233/234	0.07	1.09		U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Boron	3.2	7.3		J+	b	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Thorium 231	0.039	0.058	J	U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 233/234	0.06	1.2		J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Boron	3.2	8.5		J+	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Fluoride	0.053	0.24	B	U	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 231	0.1	0.18	J	J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium 233/234	0.12	0.78	J	U	b	pci/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Sulfate	0.64	4.4	B	U	b	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
< >	Less than; greater than
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified due to other stable chemistry issues
k	Qualified because result is >MDC and < required reporting limit
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 7
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Barium	0.152	183	N	J	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Barium	0.152	245	N	J	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Barium	0.152	220	N	J	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Barium	0.152	272	N	J	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Barium	0.152	445	N	J	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6	J	R	k, e	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Barium	0.152	188	N	J	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Barium	0.152	197	N	J	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Strontium	0.0735	165	N	J-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Barium	0.152	191	N	J	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	b, e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Barium	0.152	152	N	J	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Barium	0.152	143	N	J	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Barium	0.152	145	N	J	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Barium	0.152	142	N	J	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Barium	0.152	171	N	J	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Barium	0.152	240	N	J	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Barium	0.152	146	N	J	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zinc	0.2207	51.6	N	J+	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zinc	0.2207	48.6	N	J+	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zinc	0.2207	39.6	N	J+	e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zinc	0.2207	51.2	N	J+	e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zinc	0.2207	41.9	N	J+	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zinc	0.2207	52	N	J+	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zinc	0.2207	39.7	N	J+	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zinc	0.2207	40	N	J+	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zinc	0.2207	42.6	N	J+	e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zinc	0.2207	36	N	J+	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zinc	0.2207	34.3	N	J+	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zinc	0.2207	32.5	N	J+	e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zinc	0.2207	35.6	N	J+	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zinc	0.2207	34.1	N	J+	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zinc	0.2207	35.7	N	J+	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zinc	0.2207	35.8	N	J+	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zinc	0.2207	36.9	N	J+	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zinc	0.2207	52.1	N	J+	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Strontium	0.0735	184	N	J-	e	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Strontium	0.0735	239	N	J-	e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Strontium	0.0735	145	N	J-	e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Strontium	0.0735	294	N	J-	e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Strontium	0.0735	234	N	J-	e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Strontium	0.0735	240	N	J-	e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Strontium	0.0735	144	N	J-	e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Strontium	0.0735	219	N	J-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15		R	e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Strontium	0.0735	567	N	J-	e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67		R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Strontium	0.0735	127	N	J-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42		R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Strontium	0.0735	230	N	J-	e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1		R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Strontium	0.0735	684	N	J-	e	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76		R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37		R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13		R	e	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2		R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12		R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21		R	e	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19		R	e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19		R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86	J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94	J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8	J	R	k, e	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71	J	R	k, e	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52	J	R	k, e	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37		R	e	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51		R	e	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
k	Result is greater than MDC but less than the required reporting limit
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
ND	Not detected
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
R	Result is rejected
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1	The RL represents the SQL for metals and the MDC for radionuclides.
2	“ND” indicates that the analyte was not detected above the associated SQL.

TABLE 8
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 226	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 226	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	1.14		J	n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 226	0.119	1.14		J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0905	1.18		J	n	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Radium 226	0.0905	1.18		J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0925	1.06		J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Radium 226	0.0925	1.06		J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0577	1.18		J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 226	0.0577	1.18		J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	1.53		J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 226	0.128	1.53		J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.147	1.09		J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Radium 226	0.147	1.09		J	n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807	J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807	J	J	k, n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.177	1.58		J	n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Radium 226	0.177	1.58		J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.154	1.15		J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 226	0.154	1.15		J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.227	2.1		J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Radium 226	0.227	2.1		J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	1.22		J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Radium 226	0.156	1.22		J	n	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.145	1.82		J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Radium 226	0.145	1.82		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 226	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Radium 226	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Radium 226	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 226	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 226	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	1.22		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 226	0.185	1.22		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 226	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784	J	J	k, n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.101	1.96	J	n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 226	0.101	1.96	J	n	pCi/g

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
J	Result is estimated
k	Qualified because result is >MDC but < required reporting limit
MDC	Minimum detectable concentration
n	Qualified due to poor tracer yield
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 9
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Lead	0.0506	9.9	N*	J	d	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Lead	0.0506	19.1	N*	J	d	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Lead	0.0506	5.7	N*	J	d	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Lead	0.0506	6.3	N*	J	d	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Lead	0.0506	3	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Lead	0.0506	5	N*	J	d	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Lead	0.0506	12.2	N*	J	d	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Lead	0.0506	3.6	N*	J	d	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Lead	0.0506	21	N*	J	d	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Lead	0.0506	11.7	N*	J	d	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Lead	0.0506	17.5	N*	J	d	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Lead	0.0506	12.4	N*	J	d	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Lead	0.0506	9.4	N*	J	d	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Lead	0.0506	6.7	N*	J	d	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Lead	0.0506	7.8	N*	J	d	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Lead	0.0506	7.9	N*	J	d	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Manganese	0.0131	397	N*	J	d	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Manganese	0.0131	433	N*	J	d	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Manganese	0.0131	522	N*	J	d	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Manganese	0.0131	268	N*	J	d	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Manganese	0.0131	398	N*	J	d	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Manganese	0.0131	455	N*	J	d	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Manganese	0.0131	288	N*	J	d	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Manganese	0.0131	287	N*	J	d	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Manganese	0.0131	678	N*	J	d	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Manganese	0.0131	312	N*	J	d	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Manganese	0.0131	449	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

*	Laboratory qualification due to poor duplicate precision
b	Qualified due to blank contamination
d	Qualified due to poor duplicate precision
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Laboratory qualification due to poor matrix spike recovery
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 10
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	CEC	50	19.4	J	J	g	meq/100g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Molybdenum	0.241	0.3	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tin	0.187	0.57	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	CEC	50	13.2	J	J	g	meq/100g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	CEC	50	14.9	J	J	g	meq/100g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tin	0.187	0.68	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	CEC	50	16.3	J	J	g	meq/100g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Mercury	0.0072	0.029	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tin	0.187	0.65	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	CEC	50	14.7	J	J	g	meq/100g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Mercury	0.0072	0.03	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	CEC	50	10	J	J	g	meq/100g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Beryllium	0.038	0.16	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	CEC	50	13.3	J	J	g	meq/100g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Molybdenum	0.241	0.34	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Platinum	0.0435	0.082	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tin	0.187	0.8	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium	0.038	0.87	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	CEC	50	15.3	J	J	g	meq/100g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium	0.038	0.62	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	CEC	50	15.6	J	J	g	meq/100g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	CEC	50	17.4	J	J	g	meq/100g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Mercury	0.0072	0.032	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Beryllium	0.038	0.35	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	CEC	50	15.9	J	J	g	meq/100g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Beryllium	0.038	0.54	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Mercury	0.0072	0.034	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Beryllium	0.038	0.33	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	CEC	50	15.5	J	J	g	meq/100g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	CEC	50	19.2	J	J	g	meq/100g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Beryllium	0.038	0.32	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	CEC	50	15.1	J	J	g	meq/100g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	CEC	50	14.6	J	J	g	meq/100g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	CEC	50	7.9	J	J	g	meq/100g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Platinum	0.0435	0.099	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tin	0.187	0.75	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Beryllium	0.038	0.29	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tin	0.187	0.69	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tin	0.187	0.76	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium	0.038	0.98	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Beryllium	0.038	0.49	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Molybdenum	0.241	0.66	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Platinum	0.0435	0.045	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Mercury	0.0072	0.018	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Molybdenum	0.241	0.63	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Mercury	0.0072	0.0093	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Selenium	0.1579	0.35	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tin	0.187	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Molybdenum	0.241	0.57	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Mercury	0.0072	0.0085	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Molybdenum	0.241	0.56	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Molybdenum	0.241	1	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tin	0.187	0.49	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Uranium	0.038	0.76	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Uranium	0.038	0.91	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tin	0.187	0.36	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tin	0.187	0.78	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Beryllium	0.038	0.38	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Molybdenum	0.241	0.4	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tin	0.187	0.32	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Mercury	0.0072	0.0092	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Molybdenum	0.241	0.75	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Mercury	0.0072	0.0091	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Molybdenum	0.241	0.84	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Molybdenum	0.241	0.68	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Molybdenum	0.241	0.79	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium	0.038	0.64	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium	0.038	0.76	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium	0.038	0.68	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium	0.038	0.96	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tin	0.187	0.62	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium	0.038	0.83	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Molybdenum	0.241	0.59	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Mercury	0.0072	0.0086	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tin	0.187	0.67	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Molybdenum	0.241	0.76	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium	0.038	0.99	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Molybdenum	0.241	0.65	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Selenium	0.1579	0.38	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Selenium	0.1579	0.33	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Molybdenum	0.241	0.78	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Molybdenum	0.241	0.7	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium	0.038	0.78	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Mercury	0.0072	0.0097	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tin	0.187	0.28	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Molybdenum	0.241	0.94	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Selenium	0.1579	0.28	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium	0.038	0.79	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tin	0.187	0.29	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Uranium	0.038	0.74	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tin	0.187	0.24	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium	0.038	0.51	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tin	0.187	0.2	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium	0.038	0.67	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Molybdenum	0.241	0.83	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium	0.038	0.63	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Beryllium	0.038	0.52	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Molybdenum	0.241	0.97	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tin	0.187	0.22	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium	0.038	0.74	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Molybdenum	0.241	0.89	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tin	0.187	0.47	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Antimony	0.3298	0.23	BN	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Mercury	0.0072	0.0084	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Antimony	0.3298	0.21	BN	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium	0.038	0.72	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Antimony	0.3298	0.29	BN	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Molybdenum	0.241	0.44	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Molybdenum	0.241	0.74	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tin	0.187	0.32	B	J	g	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
B	Reported value is greater than the SQL, but less than the PQL
CEC	Cation exchange capacity
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
g	Qualified because result is greater than the SQL, but less than the PQL
h	Qualified due to holding time exceedance
J	Result is estimated
meq/100g	Milliequivalents per 100 grams
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
PQL	Practical quantitation limit

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 11
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Aluminum	2	11800	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cobalt	0.064	10.8	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Copper	0.2205	17.6	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Manganese	0.0131	488	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nickel	0.1295	15.5	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Potassium	2.079	1060	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Silicon	0.5289	530	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Titanium	0.1175	704	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6		R	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Vanadium	0.5535	50	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cobalt	0.064	16.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Copper	0.2205	22.1	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Magnesium	1.176	12500	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Manganese	0.0131	641	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nickel	0.1295	20.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Potassium	2.079	1360	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Silicon	0.5289	535	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Titanium	0.1175	758	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Vanadium	0.5535	57.5	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Zirconium	0.0874	177	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cobalt	0.064	11.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Copper	0.2205	19.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Magnesium	1.176	17500	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Manganese	0.0131	544	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Potassium	2.079	1500	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Silicon	0.5289	573	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Titanium	0.1175	702	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Vanadium	0.5535	54.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Aluminum	2	14700	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cobalt	0.064	12.5	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Copper	0.2205	22.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Magnesium	1.176	12900	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Manganese	0.0131	618	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nickel	0.1295	18.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Potassium	2.079	1490	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Silicon	0.5289	538	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Titanium	0.1175	958	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Vanadium	0.5535	59.1	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Zirconium	0.0874	175	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cobalt	0.064	14.6	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Copper	0.2205	23.8	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Magnesium	1.176	13400	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Manganese	0.0131	593	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nickel	0.1295	30	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Potassium	2.079	1820	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Silicon	0.5289	562	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Titanium	0.1175	779	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Vanadium	0.5535	57.3	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Zirconium	0.0874	176	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Aluminum	2	10900	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cobalt	0.064	10.6	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Magnesium	1.176	11700	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Manganese	0.0131	471	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nickel	0.1295	19	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Potassium	2.079	1210	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Silicon	0.5289	543	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Titanium	0.1175	749	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Zirconium	0.0874	178	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Copper	0.2205	18.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Manganese	0.0131	489	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Silicon	0.5289	631	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Titanium	0.1175	739	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Vanadium	0.5535	47.1	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Zirconium	0.0874	165	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Aluminum	2	6340	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Copper	0.2205	23.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Magnesium	1.176	10500	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Manganese	0.0131	282	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nickel	0.1295	27.8	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Potassium	2.079	1420	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Silicon	0.5289	409	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Titanium	0.1175	438	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Vanadium	0.5535	33.9	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Manganese	0.0131	481	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nickel	0.1295	15.3	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Vanadium	0.5535	43.9	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Aluminum	2	12500	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Copper	0.2205	19.8	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Magnesium	1.176	12700	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Manganese	0.0131	566	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nickel	0.1295	18	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Potassium	2.079	1180	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Silicon	0.5289	527	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Titanium	0.1175	701	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Zirconium	0.0874	164	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Aluminum	2	13400	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cobalt	0.064	11.9	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Magnesium	1.176	12200	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Manganese	0.0131	550	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Potassium	2.079	1540	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Silicon	0.5289	675	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Titanium	0.1175	936	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Vanadium	0.5535	55.3	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Zirconium	0.0874	168	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Aluminum	2	7240	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Magnesium	1.176	9830	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Potassium	2.079	1770	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Silicon	0.5289	335	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Titanium	0.1175	839	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Vanadium	0.5535	38.4	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Aluminum	2	10600	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cobalt	0.064	11.4	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Copper	0.2205	20.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Magnesium	1.176	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Manganese	0.0131	369	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nickel	0.1295	22.2	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Potassium	2.079	1750	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Silicon	0.5289	489	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Titanium	0.1175	515	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Vanadium	0.5535	42.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Zirconium	0.0874	179	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Aluminum	2	7130	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cobalt	0.064	8.7	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Magnesium	1.176	8470	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Manganese	0.0131	407	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nickel	0.1295	17.4	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Potassium	2.079	1530	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Silicon	0.5289	342	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Titanium	0.1175	659	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Vanadium	0.5535	33.5	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Zirconium	0.0874	154	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Aluminum	2	8730	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Magnesium	1.176	9600	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Manganese	0.0131	402	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nickel	0.1295	19.8	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Silicon	0.5289	375	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Copper	0.2205	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Magnesium	1.176	13700	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Manganese	0.0131	460	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nickel	0.1295	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Silicon	0.5289	519	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Titanium	0.1175	677	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Vanadium	0.5535	43.4	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Zirconium	0.0874	166	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Aluminum	2	11100	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Copper	0.2205	20.8	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Magnesium	1.176	11000	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Manganese	0.0131	380	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Potassium	2.079	2110	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Silicon	0.5289	476	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Titanium	0.1175	671	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Vanadium	0.5535	42.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Zirconium	0.0874	138	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Aluminum	2	12000	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Magnesium	1.176	12400	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Manganese	0.0131	499	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nickel	0.1295	19.1	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Silicon	0.5289	423	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Titanium	0.1175	674	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Vanadium	0.5535	44.4	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Aluminum	2	15300	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cobalt	0.064	11.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Magnesium	1.176	11600	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Manganese	0.0131	383	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Potassium	2.079	2340	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Silicon	0.5289	719	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Titanium	0.1175	1010	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Vanadium	0.5535	50.3	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Aluminum	2	8560	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cobalt	0.064	8.2	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Copper	0.2205	22.5	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Magnesium	1.176	8450	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Manganese	0.0131	327	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nickel	0.1295	14.7	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Potassium	2.079	1410	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Silicon	0.5289	449	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Titanium	0.1175	597	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Vanadium	0.5535	38.8	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Aluminum	2	10400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Barium	0.152	190	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Calcium	1.028	22700	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Iron	1.173	17400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Manganese	0.0131	445	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Phosphorus	1.913	1540	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Potassium	2.079	1800	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Silicon	0.5289	620	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Sodium	7.567	357	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Titanium	0.1175	864	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Vanadium	0.5535	46.1	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Aluminum	2	10200	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Barium	0.152	283	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Calcium	1.028	23000	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cobalt	0.064	13.2	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Iron	1.173	17200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Magnesium	1.176	10800	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Manganese	0.0131	766	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nickel	0.1295	19.6	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Phosphorus	1.913	1580	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Potassium	2.079	1680	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Silicon	0.5289	555	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sodium	7.567	399	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Titanium	0.1175	767	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Vanadium	0.5535	48.8	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Zirconium	0.0874	137	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Barium	0.152	264	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Calcium	1.028	35600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Copper	0.2205	21.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Iron	1.173	16600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Manganese	0.0131	556	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nickel	0.1295	22.7	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Phosphorus	1.913	1460	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Potassium	2.079	2080	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Silicon	0.5289	497	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Sodium	7.567	451	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Titanium	0.1175	879	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Vanadium	0.5535	48	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Zirconium	0.0874	151	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Aluminum	2	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Barium	0.152	154	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Calcium	1.028	17900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Copper	0.2205	21.7	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Iron	1.173	14900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Manganese	0.0131	465	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nickel	0.1295	22.1	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Phosphorus	1.913	1880	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Potassium	2.079	1300	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Silicon	0.5289	428	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Sodium	7.567	329	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Titanium	0.1175	858	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Vanadium	0.5535	56	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Zirconium	0.0874	171	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Barium	0.152	150	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Calcium	1.028	34200	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Cobalt	0.064	8.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Copper	0.2205	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Magnesium	1.176	11700	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Manganese	0.0131	387	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Nickel	0.1295	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Potassium	2.079	2350	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Titanium	0.1175	478	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Vanadium	0.5535	31.6	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Aluminum	2	11700	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Barium	0.152	213	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Calcium	1.028	38500	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Manganese	0.0131	553	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Nickel	0.1295	15.6	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Strontium	0.0735	321	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Titanium	0.1175	545	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Vanadium	0.5535	42.9	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zirconium	0.0874	139	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Barium	0.152	142	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Copper	0.2205	17.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Manganese	0.0131	351	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Potassium	2.079	879	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Strontium	0.0735	379	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Titanium	0.1175	533	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Vanadium	0.5535	45.6	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Aluminum	2	13800	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Barium	0.152	193	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Calcium	1.028	31400	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Copper	0.2205	19.2	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Magnesium	1.176	14600	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Manganese	0.0131	534	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Nickel	0.1295	19.4	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Potassium	2.079	2740	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Strontium	0.0735	163	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Titanium	0.1175	589	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Vanadium	0.5535	42.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zirconium	0.0874	120	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Barium	0.152	210	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Cobalt	0.064	10.3	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Manganese	0.0131	478	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Strontium	0.0735	347	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Titanium	0.1175	651	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Vanadium	0.5535	48	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zirconium	0.0874	135	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Barium	0.152	202	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Calcium	1.028	45100	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Copper	0.2205	16.1	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Magnesium	1.176	12700	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Manganese	0.0131	446	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Potassium	2.079	898	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Strontium	0.0735	411	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Titanium	0.1175	481	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Vanadium	0.5535	47.3	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Aluminum	2	12400	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Barium	0.152	218	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Calcium	1.028	33300	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Magnesium	1.176	13400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Manganese	0.0131	562	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Potassium	2.079	2400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Strontium	0.0735	200	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Titanium	0.1175	540	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Vanadium	0.5535	40.4	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Barium	0.152	204	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Calcium	5.14	65900	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Copper	0.2205	18.8	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Magnesium	1.176	12300	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Manganese	0.0131	559	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Nickel	0.1295	16.3	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Potassium	2.079	1160	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Strontium	0.0735	320	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Titanium	0.1175	590	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Vanadium	0.5535	47.6	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Barium	0.152	169	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Calcium	1.028	47000	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Magnesium	1.176	13000	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Manganese	0.0131	432	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Nickel	0.1295	17.9	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Potassium	2.079	792	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Strontium	0.0735	394	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Titanium	0.1175	503	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Vanadium	0.5535	46.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Barium	0.152	191	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Cobalt	0.064	12	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Copper	0.2205	21.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Potassium	2.079	956	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Strontium	0.0735	488	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Titanium	0.1175	650	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Vanadium	0.5535	59.5	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Aluminum	2	8080	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Barium	0.152	119	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Calcium	1.028	15800	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Cobalt	0.064	10.4	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Manganese	0.0131	414	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Nickel	0.1295	20.6	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Potassium	2.079	1890	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Strontium	0.0735	126	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Titanium	0.1175	683	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zirconium	0.0874	141	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Aluminum	2	6800	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Barium	0.152	140	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Calcium	1.028	17100	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Copper	0.2205	20.3	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Magnesium	1.176	8200	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Strontium	0.0735	135	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Vanadium	0.5535	43.6	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zirconium	0.0874	148	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Aluminum	2	8440	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Barium	0.152	154	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Calcium	1.028	32300	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Manganese	0.0131	382	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Nickel	0.1295	20.2	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Strontium	0.0735	211	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Titanium	0.1175	657	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Vanadium	0.5535	40.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Aluminum	2	6360	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Barium	0.152	117	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Calcium	1.028	14600	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Cobalt	0.064	9	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Copper	0.2205	18.5	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Magnesium	1.176	8370	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Manganese	0.0131	438	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Nickel	0.1295	15.8	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Strontium	0.0735	97.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Titanium	0.1175	509	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Vanadium	0.5535	34.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Aluminum	2	8100	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Barium	0.152	254	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Calcium	1.028	28700	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Cobalt	0.064	14.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Magnesium	1.176	10400	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Manganese	0.0131	863	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Nickel	0.1295	19.7	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Strontium	0.0735	158	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Titanium	0.1175	600	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Vanadium	0.5535	41.6	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zirconium	0.0874	157	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Aluminum	2	7270	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Barium	0.152	203	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Calcium	1.028	21500	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Magnesium	1.176	9540	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Manganese	0.0131	605	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Nickel	0.1295	16	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Potassium	2.079	1140	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Strontium	0.0735	160	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Titanium	0.1175	473	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Vanadium	0.5535	33.4	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Aluminum	2	6820	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Barium	0.152	127	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Calcium	1.028	17600	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Magnesium	1.176	8590	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Manganese	0.0131	434	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Strontium	0.0735	119	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Titanium	0.1175	618	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Vanadium	0.5535	47	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Aluminum	2	8010	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Barium	0.152	118	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Calcium	1.028	19900	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Cobalt	0.064	9.1	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Magnesium	1.176	9440	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Manganese	0.0131	350	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Potassium	2.079	1480	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Titanium	0.1175	531	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Vanadium	0.5535	37	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Aluminum	2	8250	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Barium	0.152	139	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Calcium	1.028	28800	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Cobalt	0.064	9.2	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Copper	0.2205	20.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Magnesium	1.176	11500	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Manganese	0.0131	390	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Strontium	0.0735	177	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Titanium	0.1175	621	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Vanadium	0.5535	39.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zirconium	0.0874	142	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Barium	0.152	230	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Calcium	1.028	16600	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Copper	0.2205	16.6	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Magnesium	1.176	11400	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Manganese	0.0131	498	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Potassium	2.079	2760	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Strontium	0.0735	105	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Titanium	0.1175	550	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Vanadium	0.5535	36.1	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zirconium	0.0874	112	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Aluminum	2	8400	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Arsenic	0.1278	6.1	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Calcium	1.028	30000	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Lead	0.0506	10.9	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Magnesium	1.176	8240	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Vanadium	0.5535	41.1	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Aluminum	2	9880	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Arsenic	0.1278	3.3	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Calcium	1.028	22800	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Magnesium	1.176	10900	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Vanadium	0.5535	45.1	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Aluminum	2	13900	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Calcium	1.028	20400	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Lead	0.0506	11.5	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Magnesium	1.176	14200	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Calcium	1.028	27200	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Lead	0.0506	4.9	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Magnesium	1.176	5470	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Vanadium	0.5535	25.5	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Aluminum	2	5570	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Arsenic	0.1278	5.1	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Calcium	1.028	47300	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Lead	0.0506	4.5	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Vanadium	0.5535	30.5	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Aluminum	2	11400	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Arsenic	0.1278	5.3	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Calcium	1.028	24600	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Lead	0.0506	11.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Vanadium	0.5535	34.1	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Aluminum	2	6670	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Arsenic	0.1278	4.4	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Calcium	1.028	29600	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Lead	0.0506	6.2	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Magnesium	1.176	6370	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Vanadium	0.5535	33.5	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Aluminum	2	13100	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Arsenic	0.1278	7.2	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Lead	0.0506	10.1	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Vanadium	0.5535	41.9	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Aluminum	2	7190	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Arsenic	0.1278	5.2	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Calcium	5.14	82800	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Lead	0.0506	5.9	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Magnesium	1.176	9370	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Vanadium	0.5535	32.6	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Aluminum	2	9210	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Arsenic	0.1278	4.1	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Calcium	1.028	42500	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Magnesium	1.176	11000	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Arsenic	0.1278	6.4	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Lead	0.0506	12.2	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Vanadium	0.5535	36.7	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Aluminum	2	7890	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Arsenic	0.1278	5.6	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Calcium	5.14	71900	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Lead	0.0506	7.3	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Magnesium	1.176	10600	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Vanadium	0.5535	33.8	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Calcium	1.028	44600	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Lead	0.0506	6.3	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Vanadium	0.5535	51.8	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Aluminum	2	6980	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Arsenic	0.1278	4.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Calcium	1.028	19300	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Lead	0.0506	7.5	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Magnesium	1.176	7380	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Vanadium	0.5535	23.6	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Arsenic	0.1278	3	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Calcium	1.028	13500	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Lead	0.0506	6.6	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Magnesium	1.176	4690	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Vanadium	0.5535	30.8	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Aluminum	2	6420	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Calcium	1.028	20000	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Magnesium	1.176	5530	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Vanadium	0.5535	34.6	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Aluminum	2	9620	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Arsenic	0.1278	6.3	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Calcium	1.028	30200	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Lead	0.0506	9.2	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Magnesium	1.176	10000	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Vanadium	0.5535	36	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Aluminum	2	7650	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Arsenic	0.1278	3.6	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Calcium	1.028	13000	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Magnesium	1.176	5670	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Vanadium	0.5535	39.9	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Aluminum	2	6560	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Arsenic	0.1278	3.9	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Lead	0.0506	5.7	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Magnesium	1.176	5640	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Vanadium	0.5535	33.9	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Arsenic	0.1278	5.9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Calcium	1.028	30100	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Lead	0.0506	9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Vanadium	0.5535	34.2	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Cobalt	0.064	5.7	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Vanadium	0.5535	30.5	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Cobalt	0.064	7	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Manganese	0.0131	339	NE	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nickel	0.1295	12.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Vanadium	0.5535	36.6	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Manganese	0.0131	464	NE	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nickel	0.1295	17.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Vanadium	0.5535	40.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Cobalt	0.064	6.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Manganese	0.0131	304	NE	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nickel	0.1295	13.2	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Vanadium	0.5535	36.2	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Manganese	0.0131	468	NE	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nickel	0.1295	10.4	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Vanadium	0.5535	29	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Cobalt	0.064	4.8	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Manganese	0.0131	198	NE	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nickel	0.1295	9.7	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Vanadium	0.5535	28.1	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Cobalt	0.064	7.5	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Vanadium	0.5535	34.5	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nickel	0.1295	10.6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Vanadium	0.5535	34.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Cobalt	0.064	4.4	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Manganese	0.0131	191	NE	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nickel	0.1295	10.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Vanadium	0.5535	28.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Manganese	0.0131	495	NE	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Vanadium	0.5535	35.5	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Cobalt	0.064	6.2	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Manganese	0.0131	321	NE	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nickel	0.1295	11.6	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Vanadium	0.5535	31.1	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Cobalt	0.064	4.7	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Manganese	0.0131	169	NE	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nickel	0.1295	11.5	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Vanadium	0.5535	28.8	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Aluminum	2	5530	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Barium	0.152	424	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Magnesium	1.176	5450	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nickel	0.1295	11.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Potassium	2.079	1520	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Aluminum	2	5480	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Barium	0.152	436	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Cobalt	0.064	6.5	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Magnesium	1.176	4930	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Aluminum	2	6180	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Barium	0.152	697	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Cobalt	0.064	12.3	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Magnesium	1.176	5920	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nickel	0.1295	12.6	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Aluminum	2	8220	NE	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nickel	0.1295	17.8	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Aluminum	2	6520	NE	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Cobalt	0.064	7.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Magnesium	1.176	9410	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nickel	0.1295	13.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Potassium	2.079	982	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Aluminum	2	8470	NE	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Cobalt	0.064	7.9	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Magnesium	1.176	16600	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Potassium	2.079	1170	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Aluminum	2	3740	NE	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Cobalt	0.064	3.7	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Magnesium	1.176	5960	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nickel	0.1295	7.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Potassium	2.079	1160	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Aluminum	2	5230	NE	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Magnesium	1.176	5070	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nickel	0.1295	9.2	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Potassium	2.079	1720	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Cobalt	0.064	6.8	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Magnesium	1.176	14000	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Potassium	2.079	3150	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Aluminum	2	4130	NE	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Cobalt	0.064	3.9	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Magnesium	1.176	6680	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nickel	0.1295	8	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Aluminum	2	6300	NE	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Cobalt	0.064	9.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Magnesium	1.176	6650	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nickel	0.1295	13.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Aluminum	2	4840	NE	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Magnesium	1.176	5100	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nickel	0.1295	11.3	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Aluminum	2	6150	NE	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Magnesium	1.176	5240	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Aluminum	2	6240	NE	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Cobalt	0.064	6.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Magnesium	1.176	6880	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nickel	0.1295	12.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Cobalt	0.064	5.1	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Magnesium	1.176	4580	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Aluminum	2	6370	NE	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Cobalt	0.064	5.2	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Magnesium	1.176	5340	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nickel	0.1295	8.9	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Aluminum	2	7500	NE	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Magnesium	1.176	9190	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Potassium	2.079	1940	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Aluminum	2	5660	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Magnesium	1.176	7000	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Potassium	2.079	872	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Cobalt	0.064	8.9	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Potassium	2.079	918	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Aluminum	2	7820	NE	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Magnesium	1.176	8970	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nickel	0.1295	18.8	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Potassium	2.079	1870	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Vanadium	0.5535	29.2	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Zirconium	0.0874	135	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Vanadium	0.5535	36.9	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Zirconium	0.0874	129	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Zirconium	0.0874	140	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Vanadium	0.5535	21.8	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Vanadium	0.5535	38.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Zirconium	0.0874	109	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Vanadium	0.5535	36.4	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Zirconium	0.0874	117	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Vanadium	0.5535	40.3	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Zirconium	0.0874	103	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Zirconium	0.0874	118	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Vanadium	0.5535	38	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Zirconium	0.0874	116	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Zirconium	0.0874	86.1	E	J	j	mg/kg

Notes:

+ Result is possibly biased high
- Result is possibly biased low
* Laboratory qualification due to poor duplicate precision
b Qualified due to blank contamination
B Reported value is greater than the SQL, but less than the PQL
d Qualified due to poor duplicate precision
e Qualified due to matrix spike or laboratory control sample issues
E Estimated due to possible matrix interference
j Qualified because result is greater than the SQL, but less than the PQL

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 12
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35 J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 230	0.05	0.95 J	J	k	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 238	0.07	0.82 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91 J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 230	0.1	0.81 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 238	0.06	0.85 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46 J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 230	0.07	0.88 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 235	0.04	0.059 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 238	0.05	0.77 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59 J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 230	0.1	0.92 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 235	0.038	0.043 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 226	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 J	R	k, e	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 230	0.06	0.86 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 235	0.041	0.061 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 238	0.06	0.84 J	J	k	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817 J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817 J	J	k, n	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.925	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 226	0.143	0.925	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 230	0.1	0.92	J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 235	0.096	0.101	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.124	0.877	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 226	0.124	0.877	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11	J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 230	0.07	0.91	J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 235	0.063	0.101	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.214	0.595	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 226	0.214	0.595	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82	J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 230	0.08	0.82	J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 238	0.09	0.81	J	J	k	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 230	0.05	0.98	J	J	k	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78	J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 230	0.1	0.77	J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 230	0.1	0.93	J	J	k	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5	J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 235	0.045	0.083	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.136	0.879	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 226	0.136	0.879	J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86	J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 235	0.042	0.124	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Radium 228	0.846	1.92	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 230	0.08	0.93	J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 235	0.048	0.054	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0975	0.792	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 226	0.0975	0.792	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 228	0.847	1.7	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 230	0.08	0.92	J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 238	0.1	0.65	J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 228	0.85	1.44	J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 235	0.1	0.12	J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Radium 228	0.76	1.73	J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 235	0.077	0.087	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.784	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 226	0.188	0.784	J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 228	0.705	1.66	J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 238	0.08	0.93 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 228	0.649	1.97 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 235	0.036	0.054 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 238	0.05	0.69 J	J	k	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 238	0.05	0.78 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 226	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 228	0.621	1.37 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 230	0.09	0.75 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 238	0.07	0.87 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Radium 226	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 228	0.821	1.69 J	J	k	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 228	0.72	1.74 J	J	k	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Radium 228	0.66	1.85 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 226	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 228	0.577	1.86 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 226	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 228	0.556	1.97 J	J	k	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 228	0.552	1.15 J	J	k	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Radium 228	0.515	1.68 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Radium 226	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Radium 226	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 226	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 228	0.705	1.95 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 226	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 228	0.627	1.3 J	J	k	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Radium 228	0.706	1.93 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 226	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 228	0.415	1.67 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 226	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 228	0.492	1.49 J	J	k	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Radium 228	0.492	1.42 J	J	k	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 238	0.08	0.77 J	J	k	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium 235	0.05	0.12 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Radium 228	0.533	1.67 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Uranium 235	0.039	0.043 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 226	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 228	0.548	1.28 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 235	0.037	0.042	J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 238	0.05	0.78	J	J	k	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 228	0.583	1.83	J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Radium 228	0.557	1.41	J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	0.1	0.92	J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Radium 228	0.624	1.3	J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Uranium 235	0.068	0.093	J	J	k	pCi/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium 235	0.038	0.126	J	J	k	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Uranium 235	0.066	0.089	J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 228	0.62	1.34	J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 235	0.03	0.21	J	J	k	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 235	0.051	0.076	J	J	k	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	0.965	J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Radium 226	0.156	0.965	J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 238	0.09	0.99	J	J	k	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 228	0.572	1.91	J	J	k	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Radium 228	0.636	1.61	J	J	k	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 238	0.07	0.74	J	J	k	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 228	0.49	1.96	J	J	k	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 238	0.05	0.98	J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 228	0.489	1.75	J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium 235	0.042	0.077	J	J	k	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 230	0.09	0.99	J	J	k	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Radium 228	0.443	1.85	J	J	k	pCi/g

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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Uranium 235	0.094	0.099 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 235	0.072	0.098 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 238	0.04	0.83 J	J	k	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 238	0.08	0.98 J	J	k	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 230	0.1	0.72 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 235	0.049	0.054 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 238	0.08	0.59 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 226	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Thorium 230	0.07	0.87 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 238	0.06	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 226	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 230	0.1	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 238	0.09	0.76 J	J	k	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 230	0.06	0.8 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 226	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 J	R	k, e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 238	0.09	0.88 J	J	k	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Uranium 235	0.04	0.17 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
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BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.835	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 226	0.188	0.835	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8	J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 235	0.07	0.13	J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 238	0.12	0.94	J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 230	0.06	0.84	J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 238	0.08	0.82	J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71	J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 230	0.07	0.78	J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 238	0.08	0.58	J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Thorium 230	0.09	0.78	J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 238	0.12	0.57	J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 235	0.068	0.076	J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 238	0.03	0.64	J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926	J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926	J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52	J	R	k, e	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thorium 230	0.05	0.82 J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 238	0.08	0.81 J	J	k	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 238	0.03	0.89 J	J	k	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 235	0.036	0.053 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 230	0.08	0.97 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 235	0.033	0.037 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 238	0.03	0.94 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 230	0.03	0.73 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 238	0.04	0.97 J	J	k	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	0.06	0.98 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 230	0.05	0.94 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 238	0.07	0.96 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 238	0.06	0.89 J	J	k	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 235	0.041	0.06 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 235	0.039	0.058 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 238	0.06	0.95 J	J	k	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68 J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Uranium 235	0.1	0.18 J	J	k	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2 J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55 J	U	k, e, b	pCi/g

Notes:

+	Result is possibly biased high	LCS	Laboratory control sample
-	Result is possibly biased low	MDC	Minimum detectable concentration
b	Qualified due to blank contamination	MS	Matrix spike
e	Qualified due to poor MS or LCS	n	Qualified due to poor tracer yield
J	Result is estimated	pCi/g	PicoCurie per gram
k	Qualified because result is greater than the MDC but less than the required reporting limit	RL	Reporting limit
		SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 13
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 232	0.86	1.24	X	l	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 232	0.84	1.85	X	l	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 232	0.86	1.69	X	l	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 232	0.73	1.61	X	l	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 232	0.96	1.85	X	l	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Thorium 232	0.86	1.32	X	l	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 232	0.83	1.86	X	l	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 232	0.73	1.29	X	l	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 232	0.86	1.99	X	l	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 232	0.82	1.43	X	l	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 232	1	1.22	X	l	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 232	0.73	1.29	X	l	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 232	1.2	1.98	X	l	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 232	0.59	2.36	X	l	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 232	0.92	1.97	X	l	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 232	0.83	1.16	X	l	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 232	0.77	1.91	X	l	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 232	0.71	1.93	X	l	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thorium 232	1	1.17	X	l	pCi/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Thorium 232	0.52	2.34	X	l	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 232	0.72	2.42	X	l	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Thorium 232	0.73	1.43	X	l	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 232	0.89	1.2	X	l	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Thorium 232	1	1.65	X	l	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thorium 232	1.2	2.16	X	l	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Thorium 232	0.87	1.66	X	l	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Thorium 232	0.97	1.53	X	l	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thorium 232	0.81	1.84	X	l	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Thorium 232	0.73	1.47	X	l	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Thorium 232	0.91	1.77	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Thorium 232	0.97	1.04	X	l	pCi/g
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Thorium 232	0.93	1.27	X	l	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thorium 232	0.77	1.53	X	l	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thorium 232	1.2	2.09	X	l	pCi/g
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thorium 232	0.58	1.93	X	l	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thorium 232	0.73	2.3	X	l	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thorium 232	0.79	2.1	X	l	pCi/g
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thorium 232	0.92	1.14	X	l	pCi/g
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thorium 232	0.69	1.45	X	l	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thorium 232	0.93	1.65	X	l	pCi/g
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thorium 232	1	2.32	X	l	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thorium 232	0.69	1.86	X	l	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Thorium 232	0.85	1.25	X	l	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thorium 232	0.93	2.08	X	l	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thorium 232	0.77	1.38	X	l	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thorium 232	0.73	1.74	X	l	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 232	0.66	1.17	X	l	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 232	0.77	1.65	X	l	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 232	0.79	1.41	X	l	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thorium 232	1.1	1.93	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thorium 232	0.94	1.64	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	1.2	1.3	X	l	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 232	0.91	1.37	X	l	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thorium 232	0.96	1.69	X	l	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 232	0.93	1.12	X	l	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 238	1.2	1.8	X	l	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 232	0.86	1.8	X	l	pCi/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thorium 232	1.1	1.45	X	l	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thorium 232	0.57	1.31	X	l	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thorium 232	0.86	1.87	X	l	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thorium 232	0.69	2.38	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Thorium 232	0.96	1.92	X	l	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thorium 232	0.6	1.52	X	l	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thorium 232	0.87	1.4	X	l	pCi/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thorium 232	0.67	2.48	X	l	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thorium 232	1.2	2.26	X	l	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thorium 232	0.99	2.2	X	l	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thorium 232	0.94	2.1	X	l	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 232	0.97	2.07	X	l	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 232	0.85	1.69	X	l	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 232	1.2	2.38	X	l	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 232	1	1.84	X	l	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 232	0.53	2.15	X	l	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thorium 232	0.75	1.84	X	l	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 232	1.1	1.6	X	l	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 232	0.83	1.18	X	l	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 232	0.82	1.47	X	l	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 232	0.96	2.08	X	l	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 232	0.73	1.28	X	l	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thorium 232	0.73	1.43	X	l	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thorium 232	1	1.68	X	l	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thorium 232	1.1	1.74	X	l	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thorium 232	0.9	1.23	X	l	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 232	1.1	1.65	X	l	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 232	0.74	1.09	X	l	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 232	0.83	1.69	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 232	0.71	1.56	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12B-0-0.5	Soil	Thorium 232	0.87	0.9	X	l	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 232	0.72	1.57	X	l	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Thorium 232	0.77	1.5	X	l	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 232	1.1	1.46	X	l	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 232	0.59	2.43	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 232	0.91	1.83		X	l	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thorium 232	0.7	1.98		X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 228	140	-10	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	71	0	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	70	30	U	X	l	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	1.2	2.61		X	l	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 232	0.86	1.51		X	l	pCi/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thorium 232	0.67	1.82		X	l	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 232	1.1	2.42		X	l	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 232	1	2.16		X	l	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 232	0.98	1.26		X	l	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Thorium 232	0.6	2.11		X	l	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Thorium 232	0.83	1.66		X	l	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Thorium 232	0.62	1.73		X	l	pCi/g

Notes:

mg/kg Milligram per kilogram
MDC Minimum detectable concentration
pCi/g PicoCurie per gram
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 14
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]	Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19 ±0.25	R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19 ±0.28	R	e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 ±0.28 J	R	k, e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15 ±0.38	R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67 ±0.39	R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42 ±0.55	R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1 ±0.3	R	e	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6	R	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 ±0.24 J	R	k, e	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7	R	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2 ±0.35	R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12 ±0.29	R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21 ±0.28	R	e	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51 ±0.29	R	e	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37 ±0.31	R	e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71 ±0.25 J	R	k, e	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76 ±0.36	R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37 ±0.28	R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13 ±0.34	R	e	pCi/g

Notes:

+ Result is possibly biased high
- Result is possibly biased low
e Qualified due to matrix spike or laboratory control sample issues
h Qualified because holding time was exceeded
k Qualified because result is >MDC, but less than the required reporting limit

TABLE 14 (CONTINUED)
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

j	Qualified due to other stable chemistry issues
J	Result is estimated
MDC	Minimum detectable concentration
mg/kg	Milligram per kilogram
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1	The RL represents the MDC for radionuclides and SQL for stable chemistries.
2	The radionuclide result includes the 2-sigma error.

APPENDIX A

BACKGROUND SOIL ANALYTICAL DATABASE
(Contained on compact disk)

ATTACHMENT A

LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS

March 7, 2006

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

Ranajit Sahu
Basic Remediation Corporation
875 W. Warm Springs Rd
Henderson, NV 89015

RE: Summary of BRC Ra-226 Background Samples Apparent Low Bias

Dear Mr. Sahu:

STL St. Louis conducted a study, comparing initial STL St. Louis analytical results performed in the spring / summer timeframe of 2005 to reanalysis results by both STL St. Louis using EPA 903.0 and STL Richland Laboratory using EPA 903.1.

A reanalysis batch performed by STL St. Louis was performed in the same manner as the original analysis and confirmed the initial results. In contrast, the reanalysis of the same samples by STL Richland using a Ba-133 tracer combined with method 903.1 radon emanation resulted in activities which were comparable to earlier sampling events prior to the spring 2005 event.

To determine if this bias was caused by utilizing barium carrier rather than Ba-133 radiometric tracer recovery, another set of samples was analyzed by STL St. Louis utilizing both gravimetric yield determination and radiometric determination. The results of this study demonstrated that there are differences in sample results dependant on whether or not a radiometric tracer was utilized. Our results obtained, using the Ba 133 tracer, were comparable to the results previously reported by STL Richland and site historical data.

In conclusion, it does appear that the spring results provided are low biased. It is our technical opinion, that the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer. STL St. Louis will employ Ba 133 tracer for future Ra 226 analysis for BRC effective immediately.

Sincerely,

William Deckelmann
STL St. Louis
Laboratory Director

Joel Kempema
STL St. Louis
Radiochemistry Technical Director

Elaine Wild
STL St. Louis QA Manager

cc: Melania Harris, STL St. Louis Project Manager

APPENDIX D-2

DATA VALIDATION MEMORANDUM FOR ENVIRON SOIL BACKGROUND DATA

ndep
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Kenny C. Guinn, Governor
Allen Biaggi, Director
Leo M. Drozdoff, P.E., Administrator

April 20, 2006

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Data Validation Memorandum on the Environ Background Data Set
NDEP Facility ID# H-000688, H-000537

Dear Mr. Paris and Mr. Wilkinson:

Attached is a memorandum regarding data validation of the background data collected by Environ for the City of Henderson. BRC and TIMET are in the process of evaluating this data for inclusion into their background data set and the attached information is needed for that evaluation.

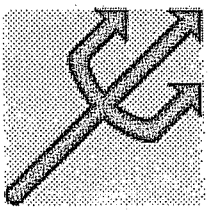
Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850x247.

Sincerely,

Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s

cc: Jim Najima, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Tronox, PO Box 55, Henderson, Nevada 89009
Keith Bailey, Tronox, Inc, PO Box 268859, Oklahoma City, Oklahoma 73126-8859
Sally Bilodeau, ENSR, 1220 Avenida Acaso, Camarillo, CA 93012-8727
Lee Erickson, Stauffer Management Company, 400 Ridge Rd, Golden, CO 80403
Chris Sylvia, Pioneer Americas LLC, PO Box 86, Henderson, Nevada 89009
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island, WA 98110
Jon Erskine, Northgate Environmental Management, Inc., 300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
Karleen O'Connor, Cox Castle Nicholson, 555 Montgomery Street, Suite 1500, San Francisco, CA 94111
Brian Walsh, Centex Homes, 3606 North Rancho Drive, Suite 102, Las Vegas, NV 89130
Michael Ford, Bryan Cave, One Renaissance Square, Two North Central Avenue, Suite 2200, Phoenix, AZ 85004
Vincent Aiello, Beazer Homes, 4670 South Fort Apache, Suite 200, Las Vegas, NV
David Gratson, Neptune and Company, 1505 15th Street, Suite B, Los Alamos, NM 87544



NEPTUNE AND COMPANY, INC.
1505 15th Street
Suite B
Los Alamos NM
Phone 505-662-2121
Fax 505-662-0500

MEMORANDUM

From: David Gratson

To: Brian Rakvica

Date: 17 April 2006

Subject: Background Data – ENVIRON Dataset

Data validation was performed soil samples collected at the WRF expansion site by ENVIRON International Corporation. The samples were collected in April 2002 at eight locations and two different depths. These data are being evaluated for inclusion into the background data set as part of the BMI complex investigation.

STL St. Louis analyzed the eighteen samples, 16 native sample plus a blank and duplicate, and the laboratory report was obtained from Mr. Mark Hawley, of ENVIRON. The dioxin/furan analysis was performed at the STL - West Sacramento laboratory. The file from STL was entitled F2D050166-AR-REV.pdf. STL - St. Louis reported the results in a Level II report format with no raw data. The report included a case narrative, summary results, and the results of quality control samples (blanks, LCS, matrix spikes and duplicates). The data validation reviewed the case narrative, QC samples, and individual sample information (e.g. surrogate recoveries) for quality control issues.

Specific Comments: Data validation was performed in accordance with EPA guidance including USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review. The radionuclide data was reviewed based on professional judgment. This data validation was performed on the results reported from STL St. Louis, Lot # F2D050166 dated September 10, 2002 provided at a Level II data report. Instrument calibration, raw results, and internal standards were not included in the report and therefore not reviewed. The laboratory report also did not provide details on which gamma energies are used for the individual radioisotopes nor is there a description of the use of back calculation from daughter/parents. The samples that were reviewed for validity are included in Table 1. All soil samples were collected on 4/3/2002 and analyzed for the parameters shown in Table 2. All samples were analyzed by STL - St. Louis with the exception of the dioxin/furan analysis.

Table 1. Samples included in Report

Samples
BG01-SS01
BG01-SS02
BG02-SS01
BG02-SS02
BG03-SS01
BG03-SS11
BG03-SS02
BG04-SS01
BG04-SS02
BG05-SS01
BG05-SS02
BG06-SS01
BG06-SS02
BG07-SS01
BG07-SS02
BG08-SS01
BG08-SS02
040402- WBO1 (aqueous blank)

Table 2. Analyses Peformed.

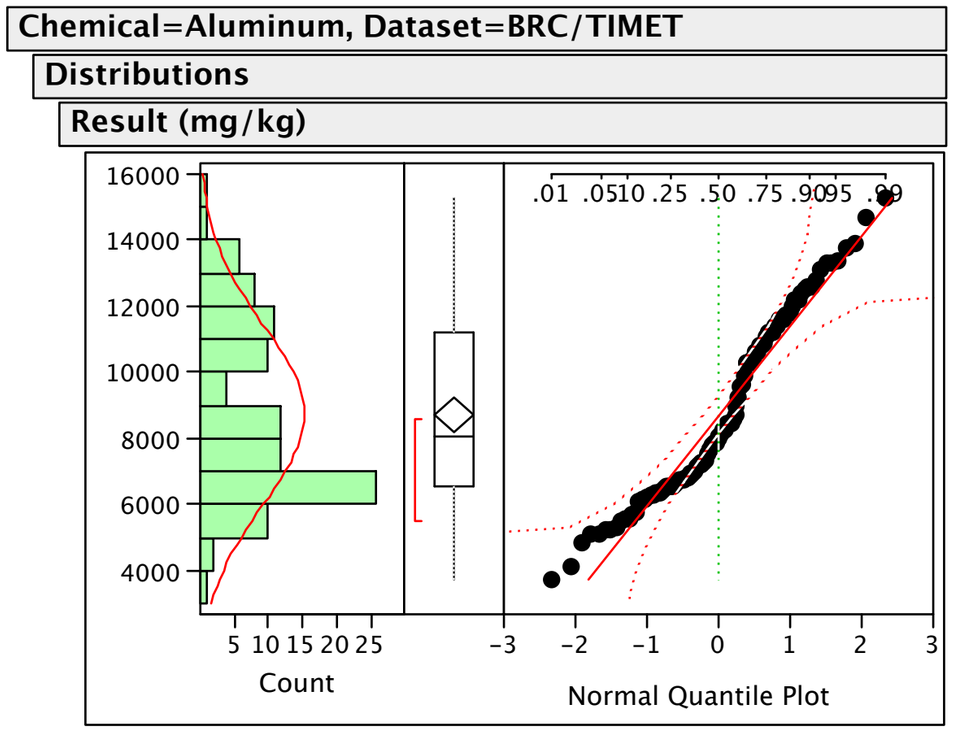
Analyses
Dioxins/Furans via EPA Method 8290 Analyzed at STL West Sacramento
Perchlorate via EPA Method 314.0
Mercury via EPA Method 7471/7470
Metals via EPA Method 6010
Metals via EPA Method 6020
Hexavalent Chromium via EPA Method 7196.
Gamma Spectroscopy via method HASL 300 Mod including Ra-226
Radium 226 (total alpha radium) via EPA Method 9315 Mod.
Radium 228 via EPA Method 9320 mod.
Isotopic Thorium via method NAS NS-3004 Mod.
Isotopic Uranium via method NAS NS-3050 Mod.
Percent Moisture via EPA method 160.3

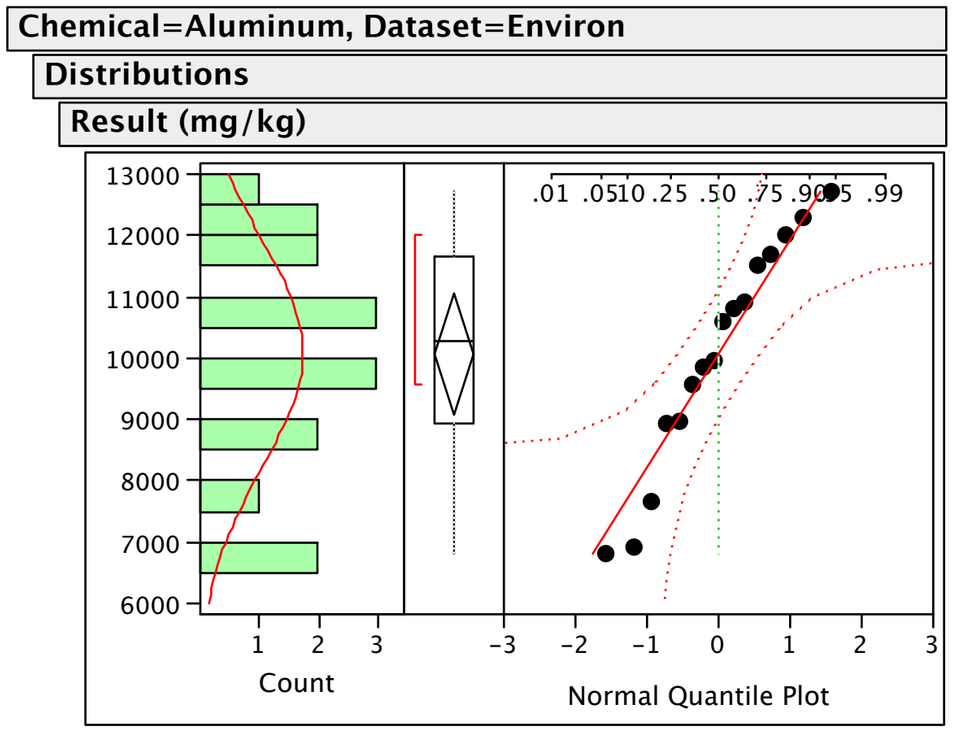
1. **Cooler Temperatures.** All three coolers were received at a temperature that exceeded the specified temperature by several degrees (9-16 °C). Due to the analyses performed this temperature deviation should not affect data quality.
2. **Holding Times. Hexavalent Chromium.** The holding time between sample collection and extraction and analysis was met for all samples and analyses with the exception of the hexavalent chromium. The samples were extracted on 7/11/2002 and the extracts analyzed on 7/15/2002. Method 7196 specifies a holding time for extracts of 24 hours and this was exceeded by approximately 72 hours. 7196 does not specify a holding time prior to extraction but the EPA they have reported that the soils samples are stable for at least 30 days. Generally, a 30 day holding time for soil samples is specified in sampling plans. Hexavalent chromium was not detected in any sample, with reporting limits of approximately 0.40 mg/kg for the soil samples. Due to the time between extraction and analysis and the potential for false negatives, it is recommended that the results for hexavalent chromium in this study be used with caution. False negatives is also an issue since the soil samples were (presumably) not extracted using an alkaline digestion such as EPA Method 3060. These data should not be used and are rejected due to the severe holding time exceedance.

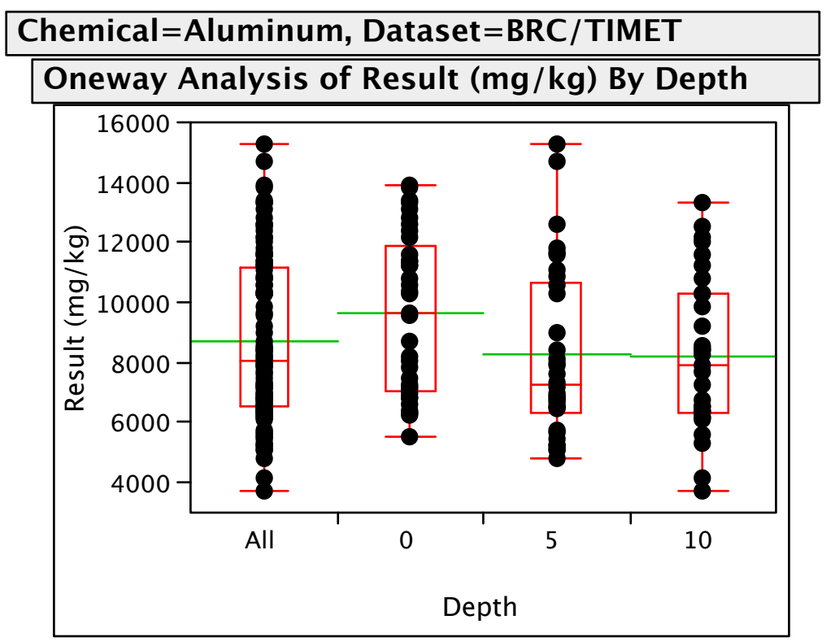
3. **Matrix Spike Recoveries – Metals.** Poor spike recovery was observed in the matrix for several of the metals analyzed with both EPA Method 6010 and Method 6020. The differences between the recovery and the criteria for manganese (Method 6020), aluminum (Method 6010) and iron (Method 6010) were especially large. The Case Narrative states that the concentration in the original sample for these three analytes was greater than 4 times the spike amount making recovery ineffective. The relative concentration of the spike to the native sample could not be verified; however the LCS recovery did meet the requirements for these analytes. These results should be used with caution but are not rejected due to the assumed spike to native concentration ratio affect on recovery.
4. **Gamma Spectroscopy, Radium 224.** The QC samples for Gamma Spectroscopy met the method requirements. However, the activity of Ra-224 in the samples generally appears high and this radionuclide is not included in the QC sample spikes. It is unclear how the activity was calculated. The activity could have been calculated either directly from the photopeak for Ra-224 or back calculated from another radionuclide such as Pb-212. It is not recommended that Radium 224 be reported directly from its photopeak with Gamma spectroscopy due to interference from other radionuclides. Without additional information on how Ra-224 was calculated these data should be used with caution and potentially rejected based on evaluation with other background levels. The data is not rejected purely due to analytical considerations. The NDEP recommends that this data be recalculated or rejected.
5. **Radium 226 and 228.** The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommends that this data be reevaluated or rejected.

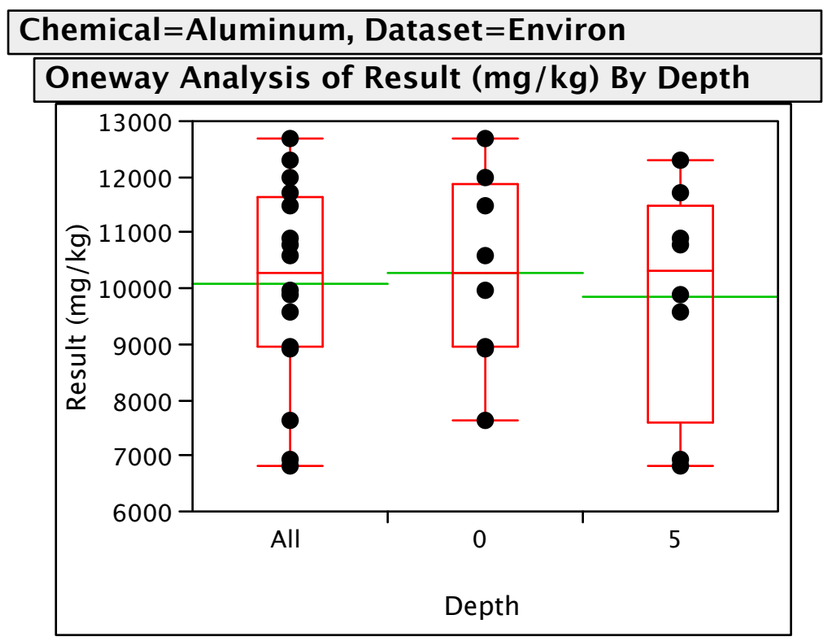
FIGURE F-1

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









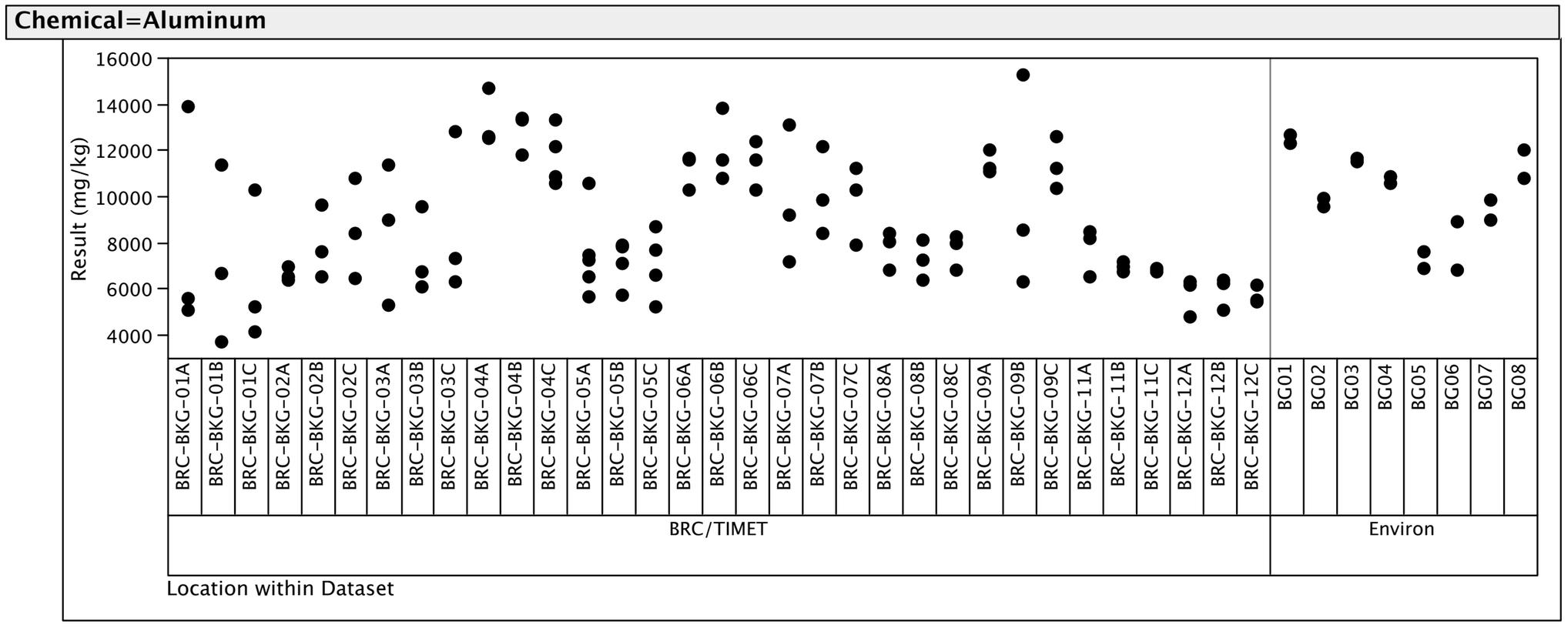
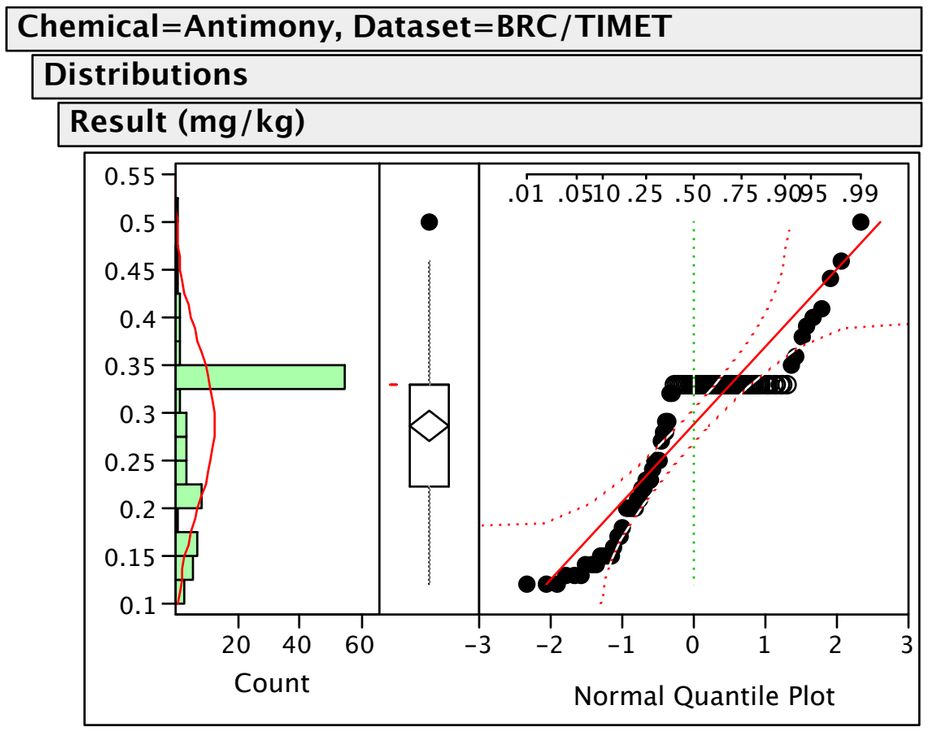
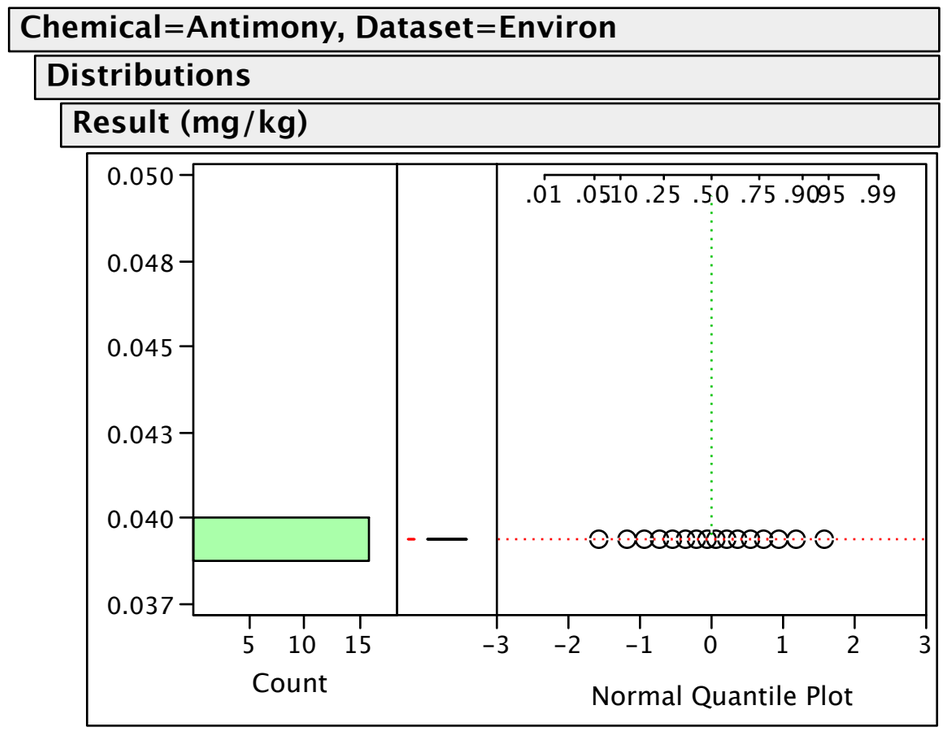
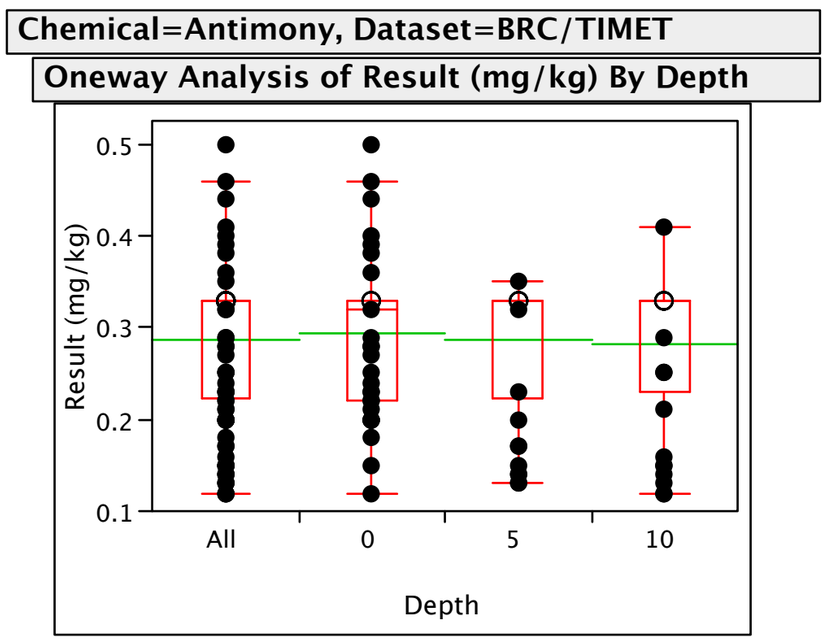


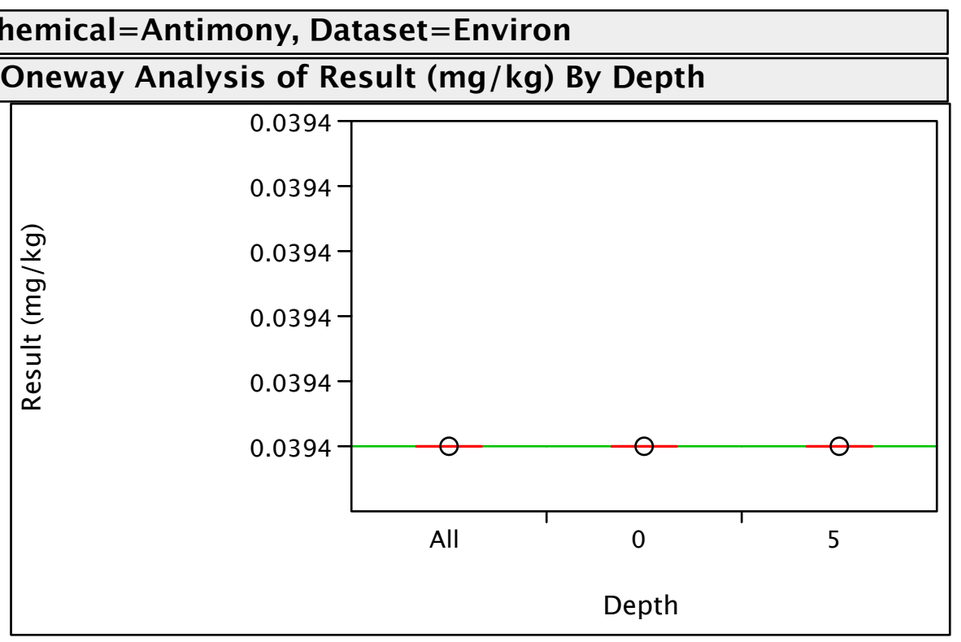
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









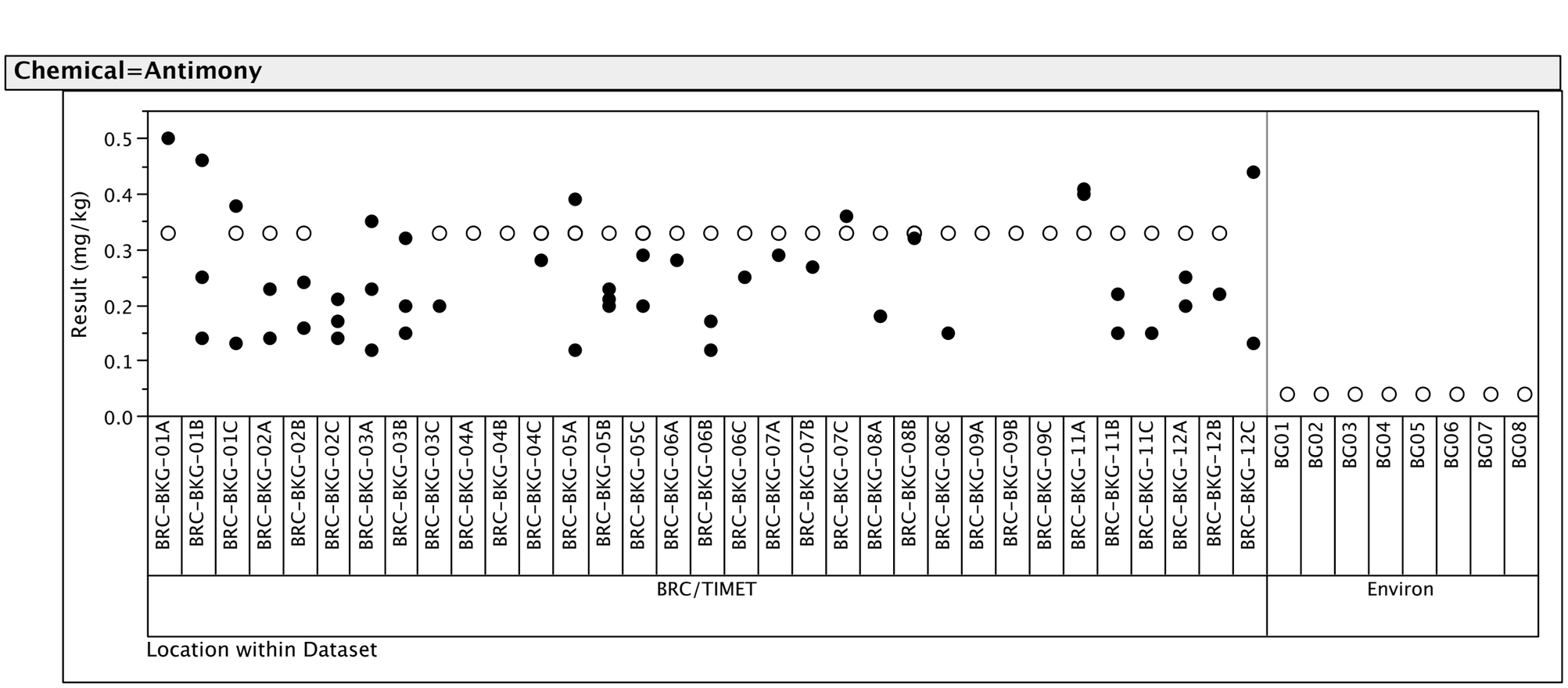
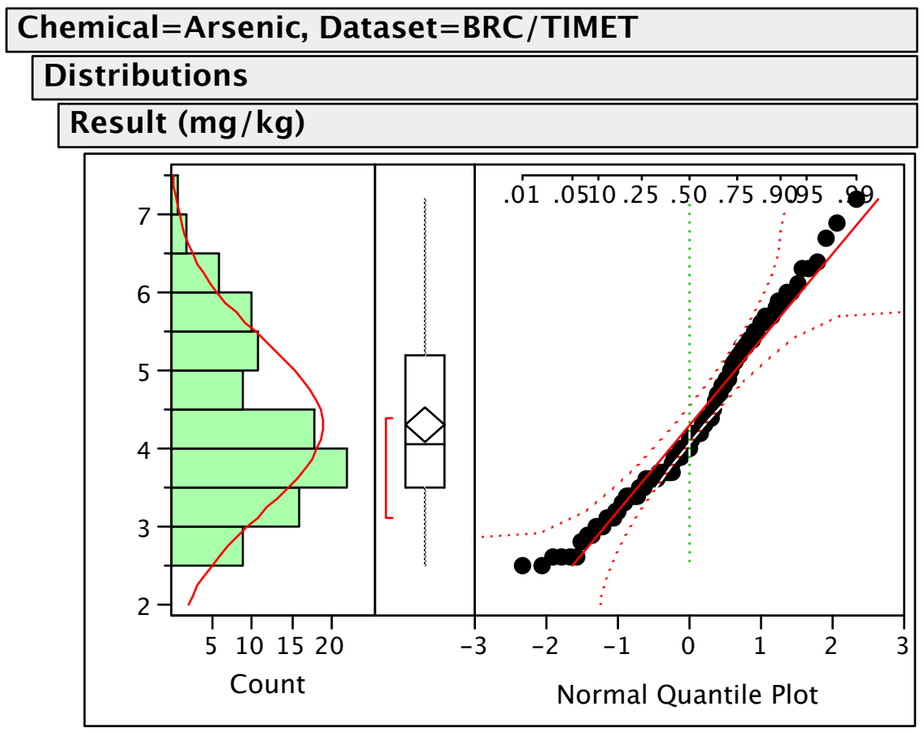
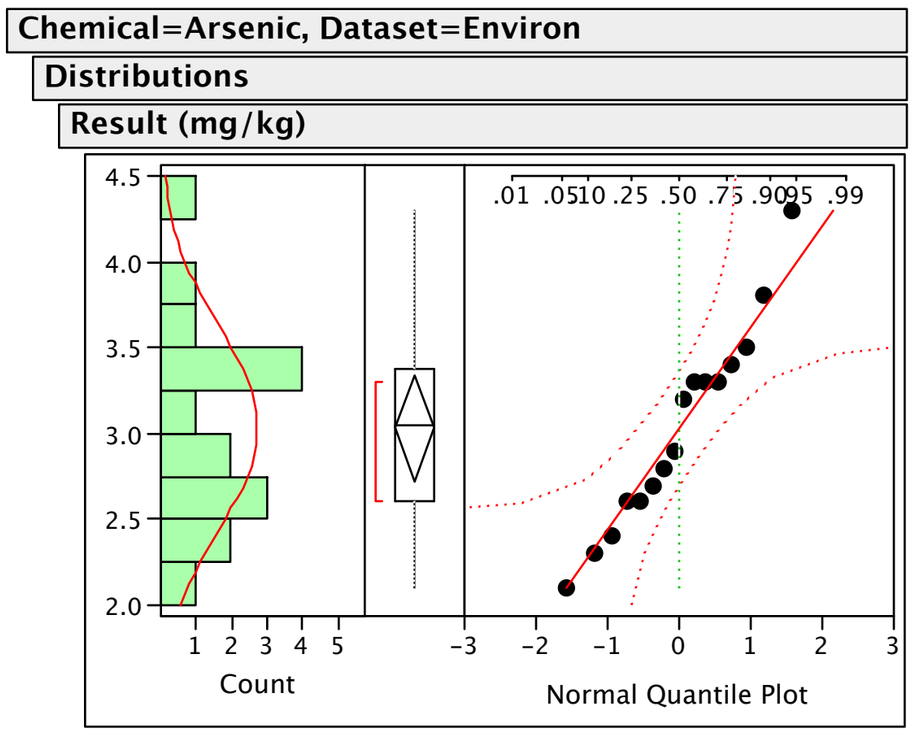
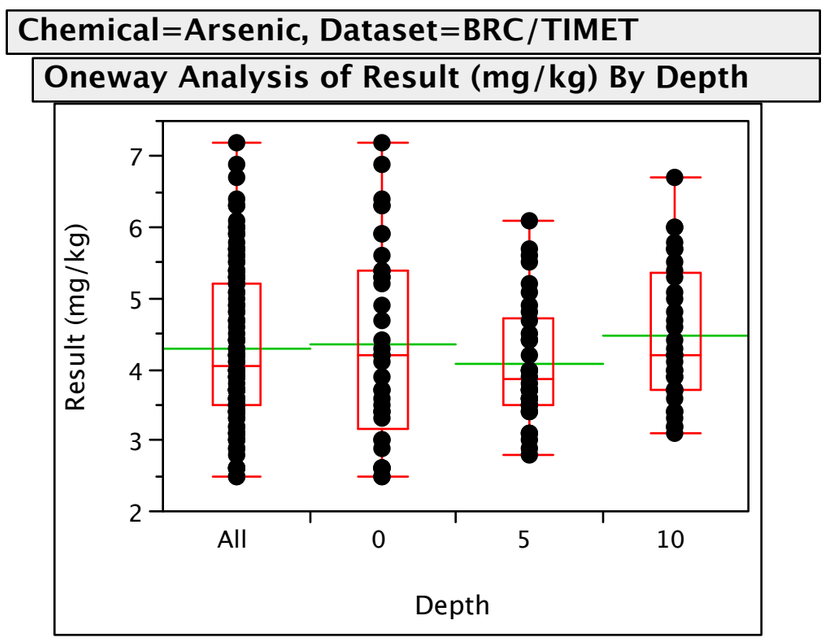


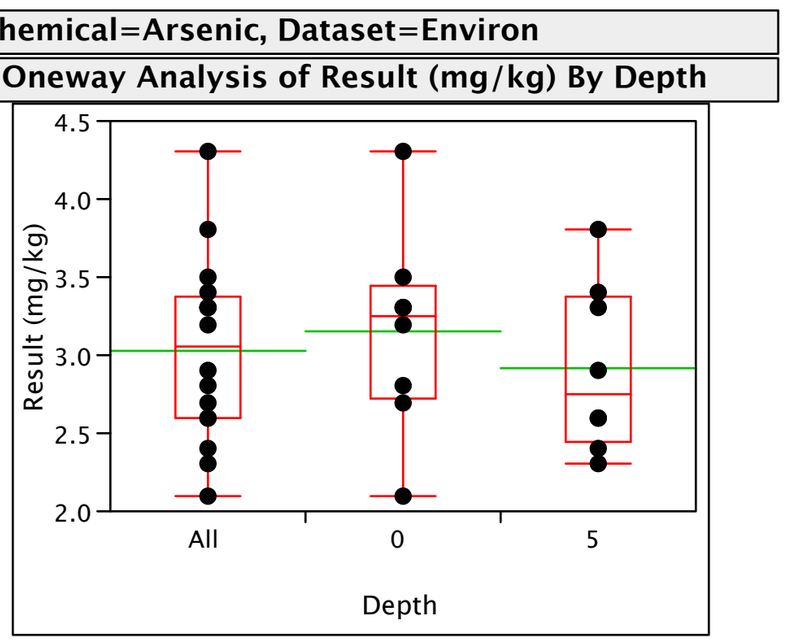
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









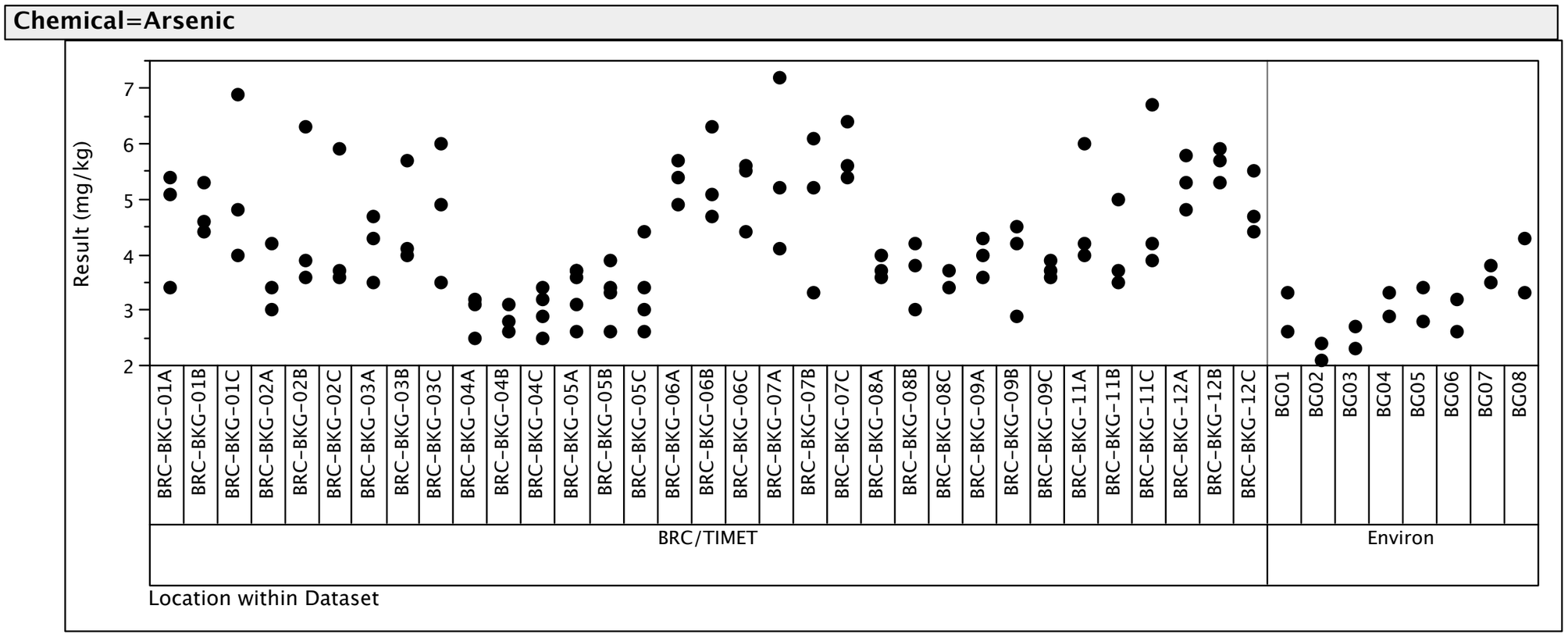
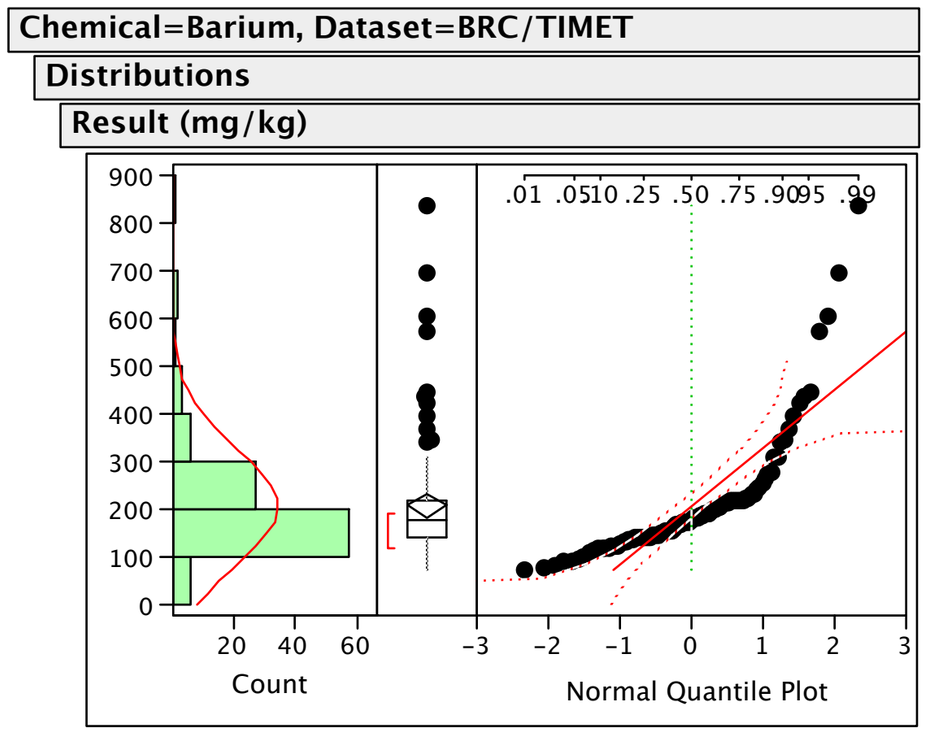
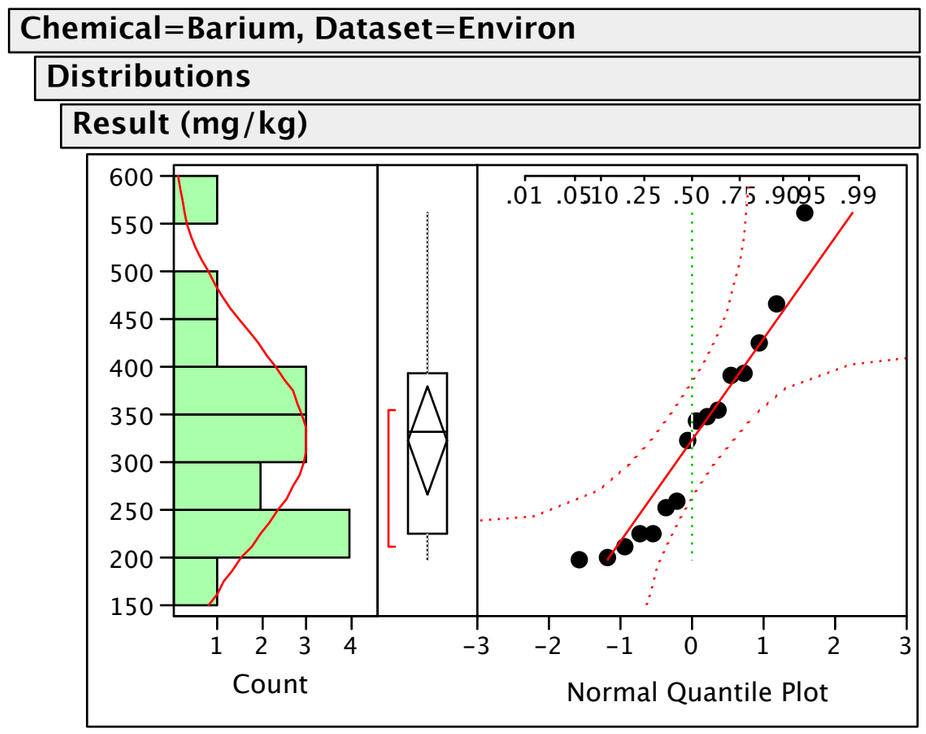
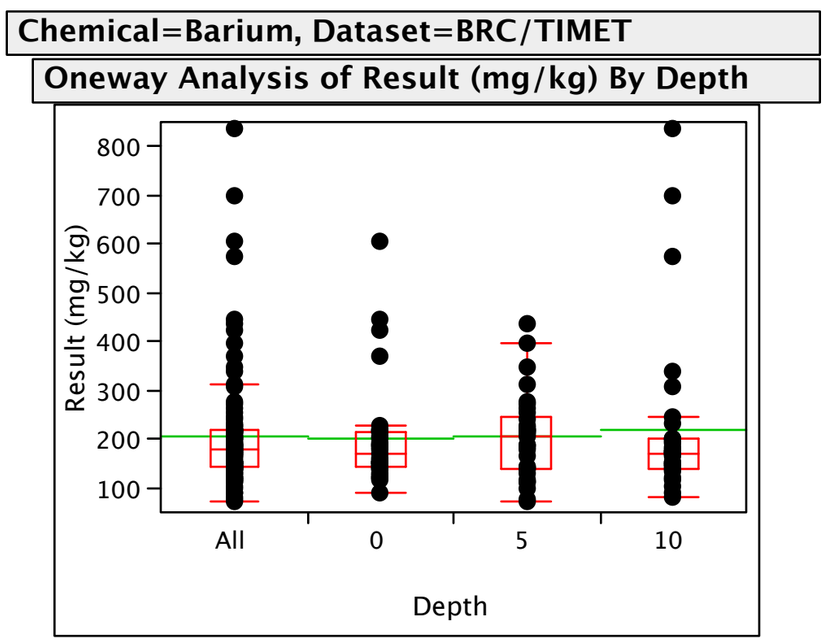


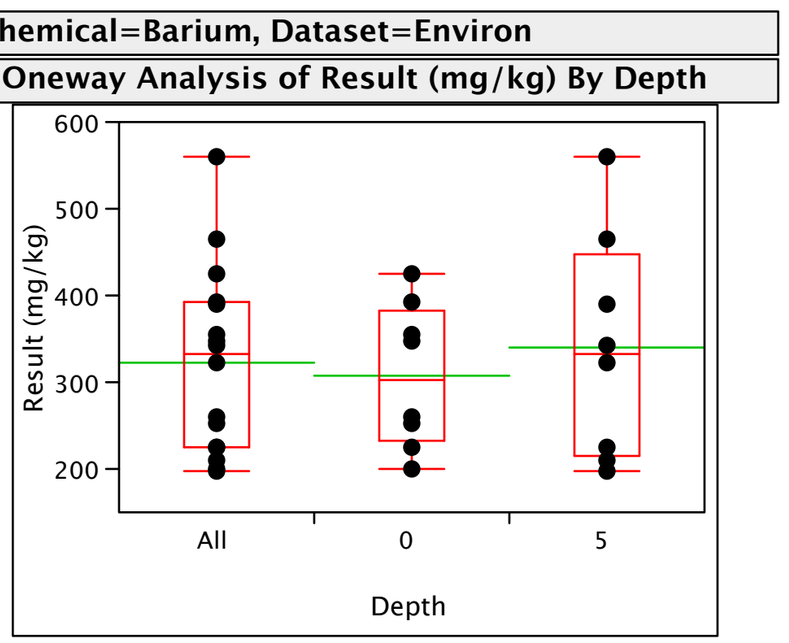
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









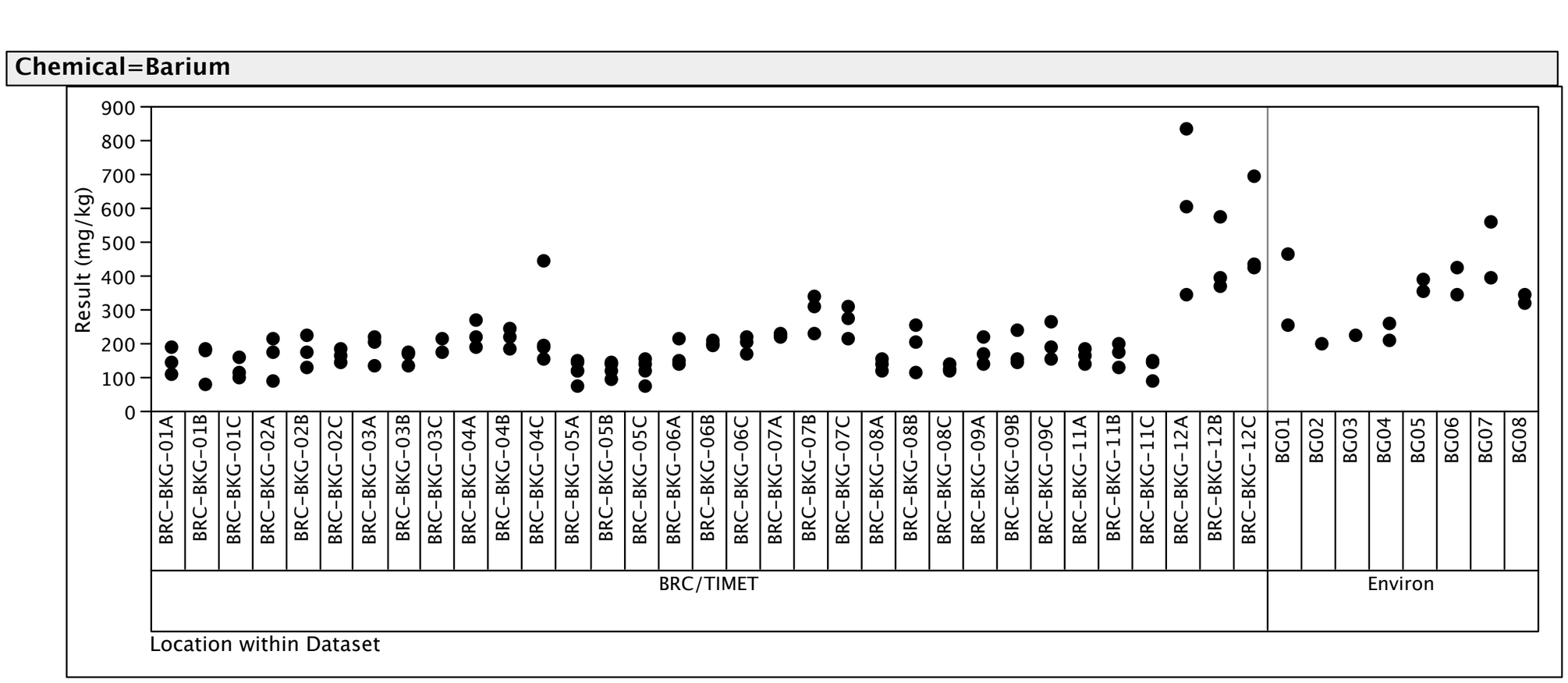
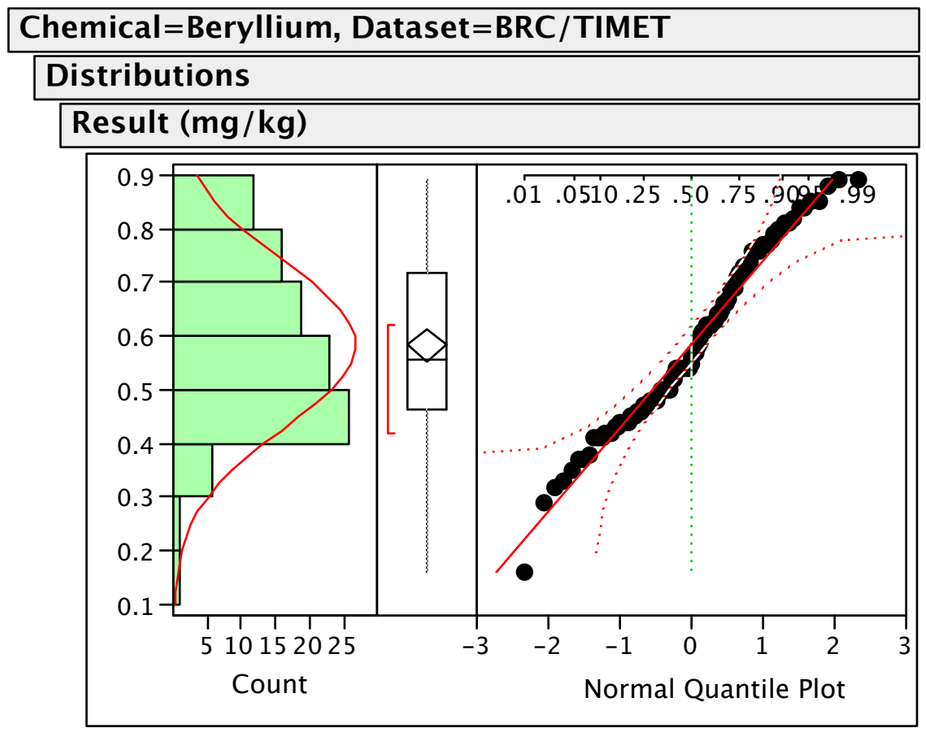
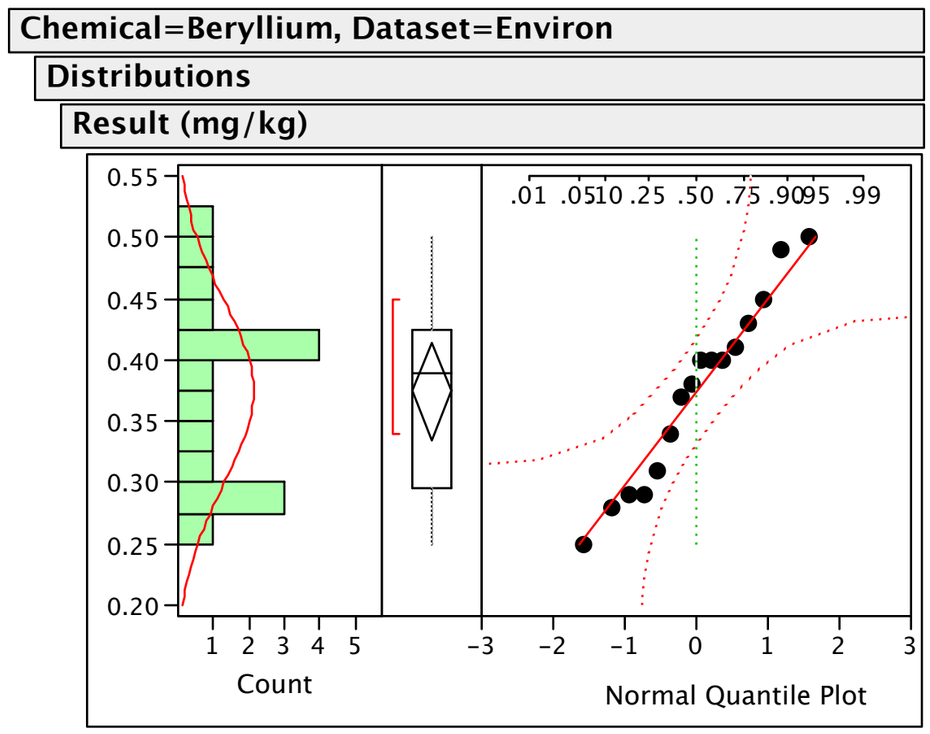
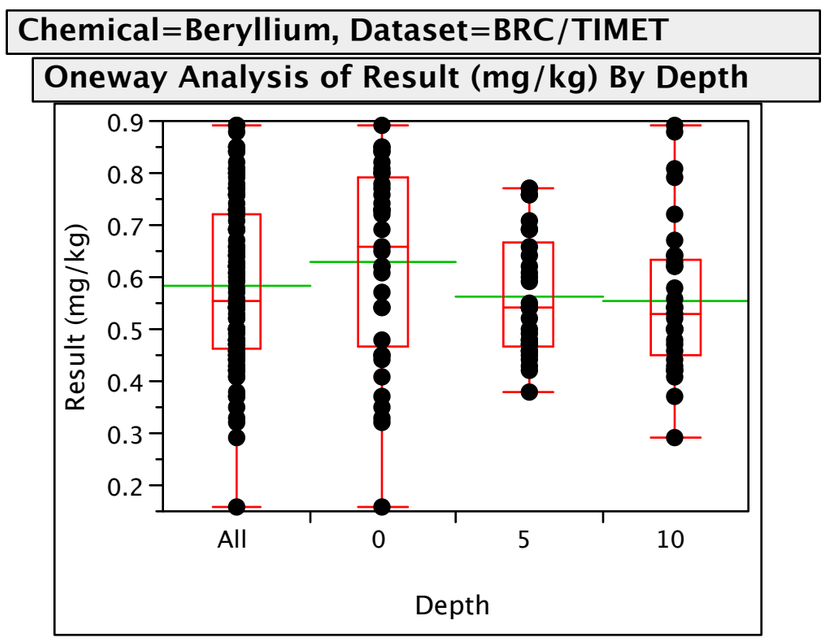


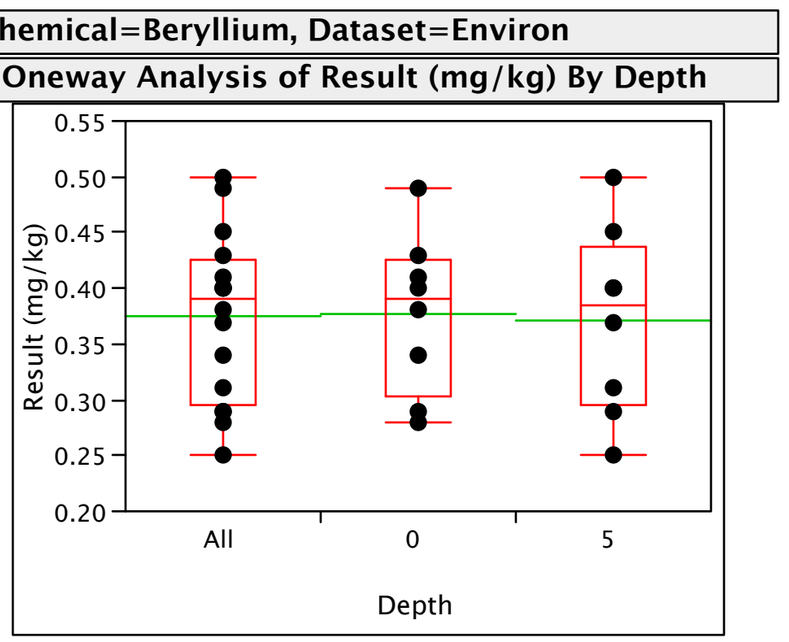
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









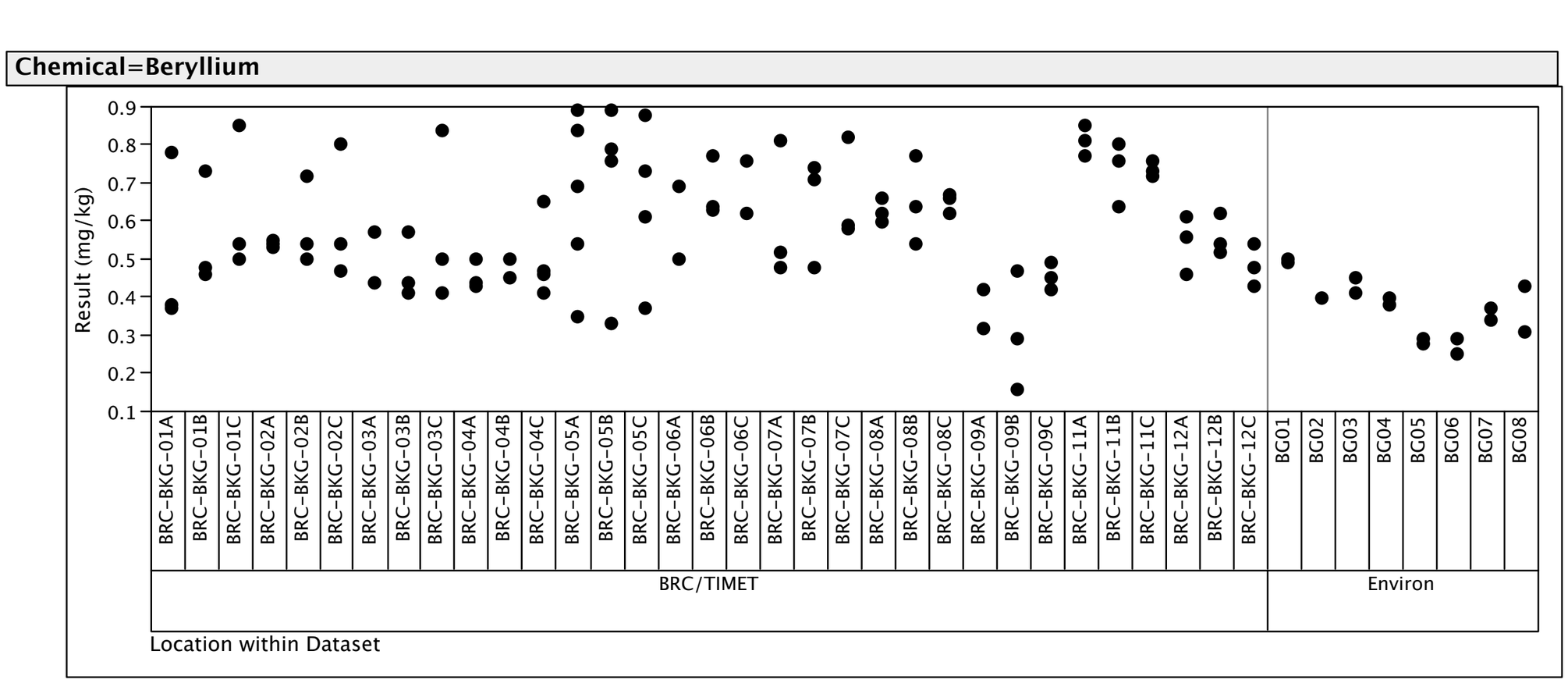
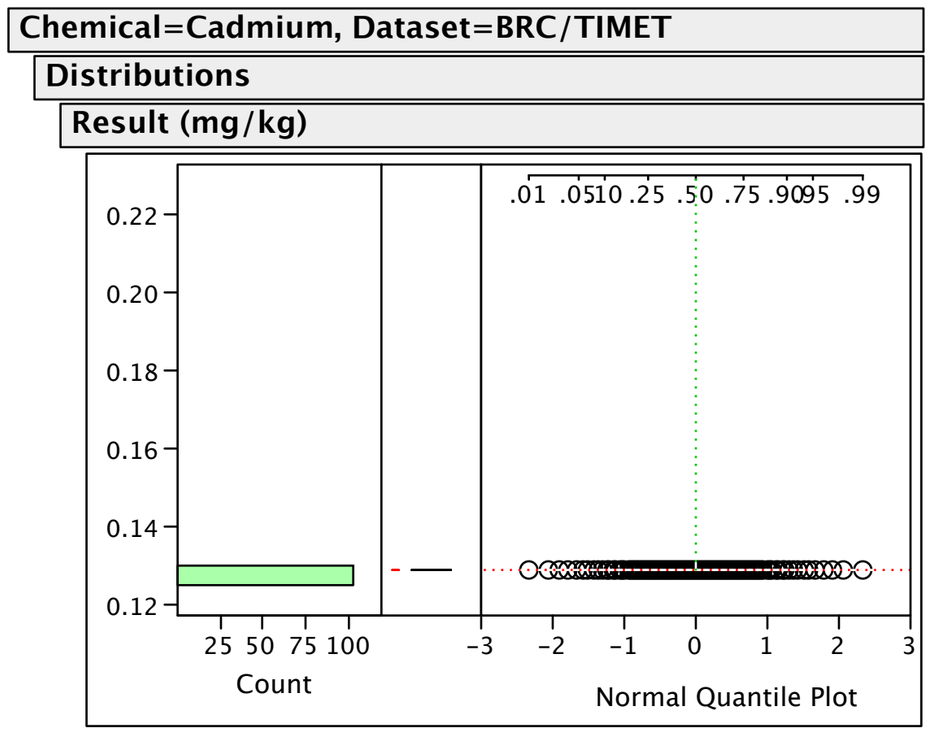
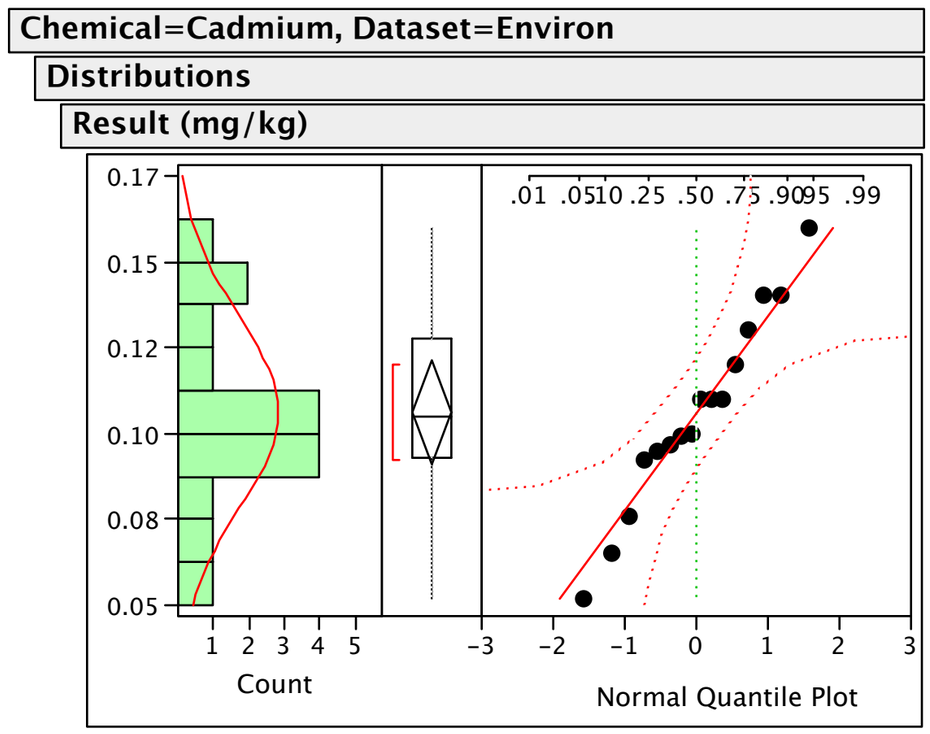
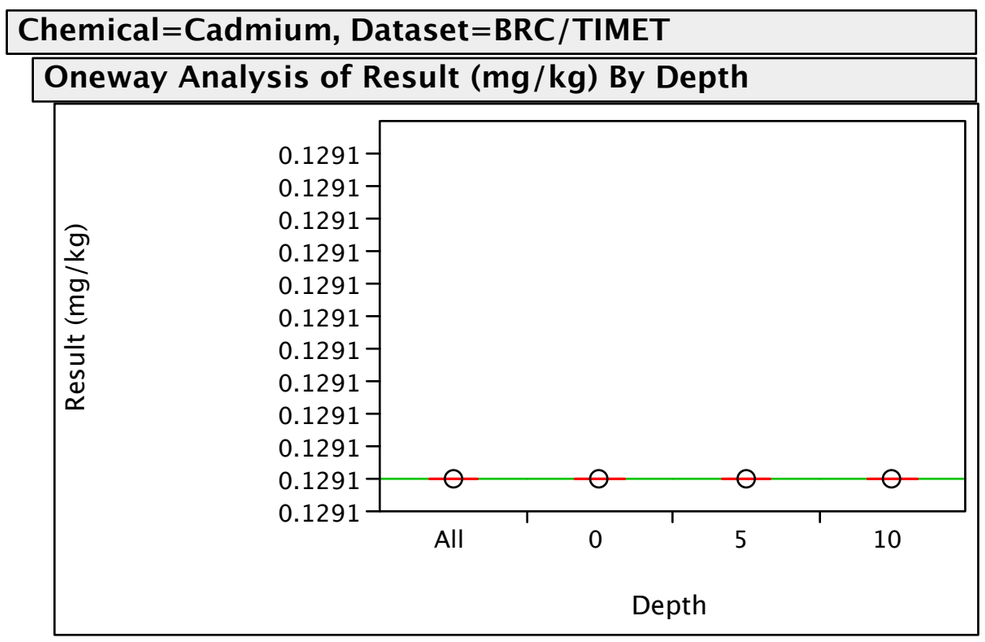


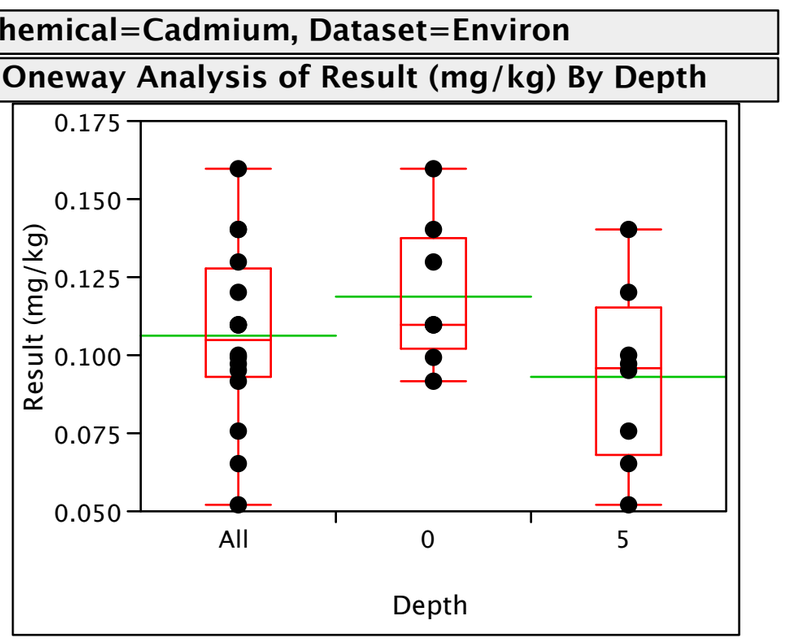
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









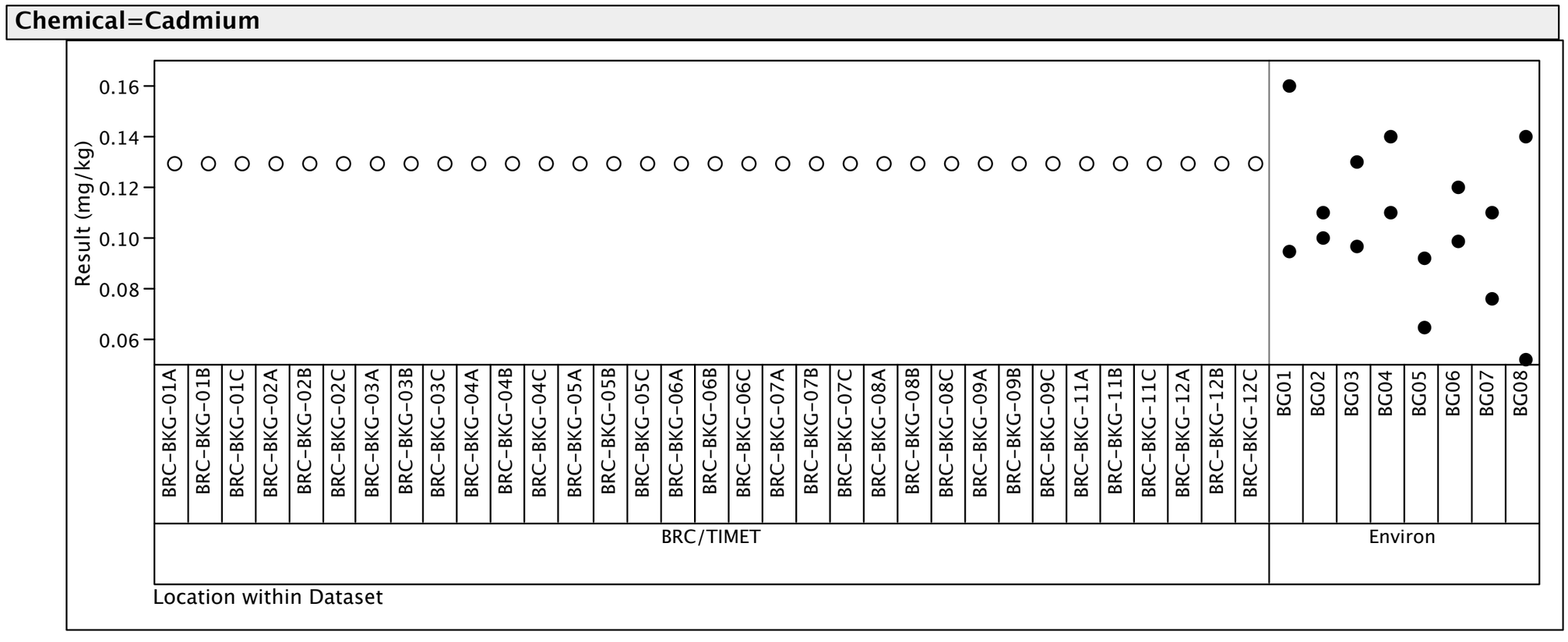
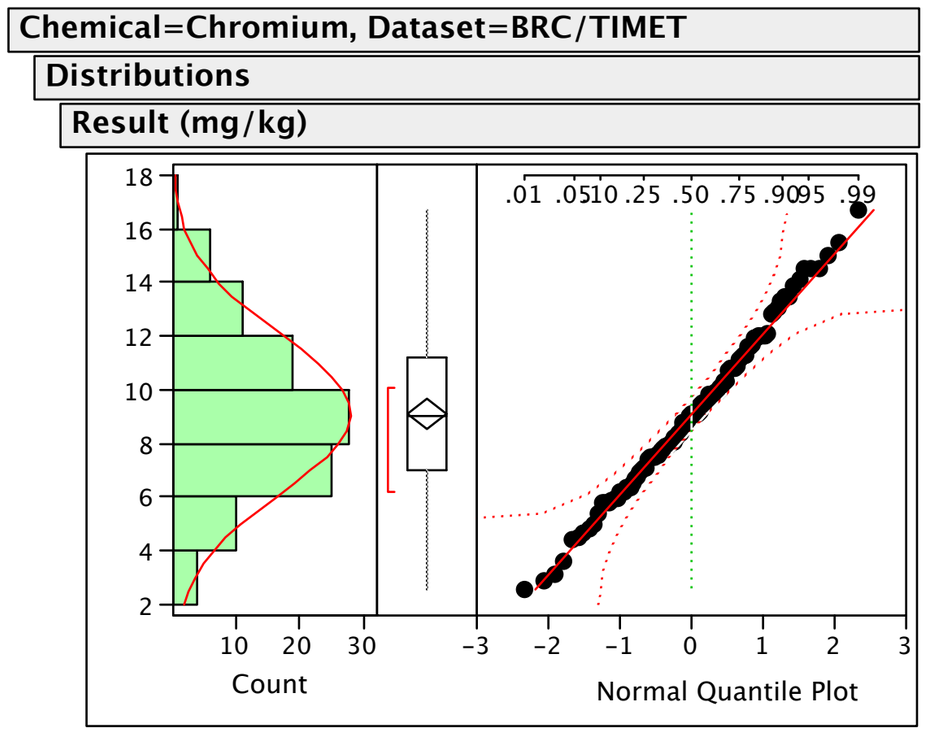
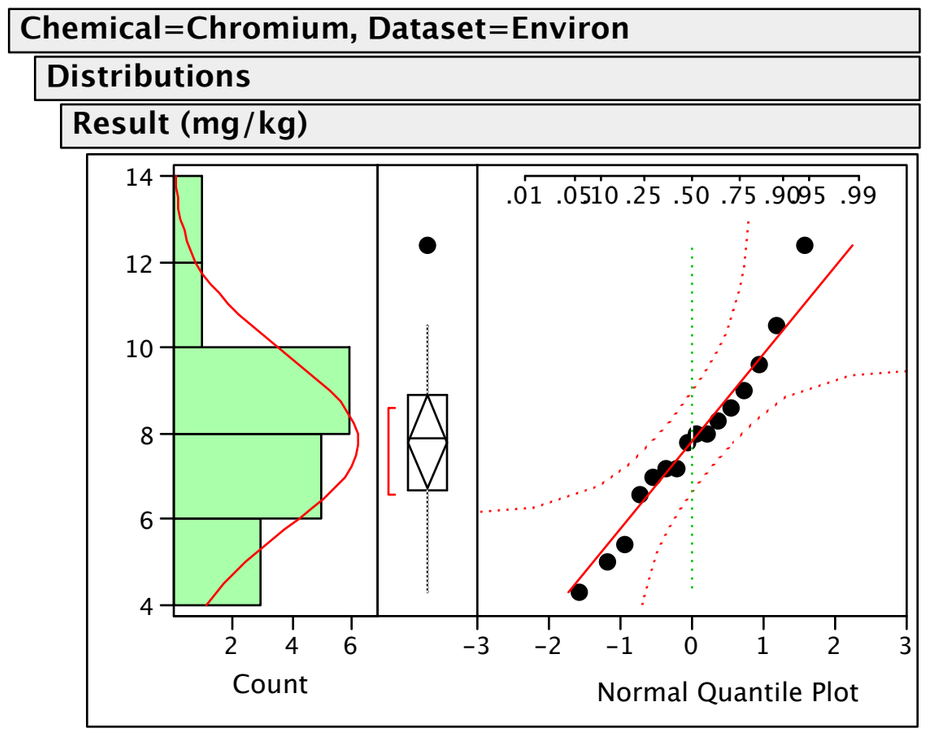
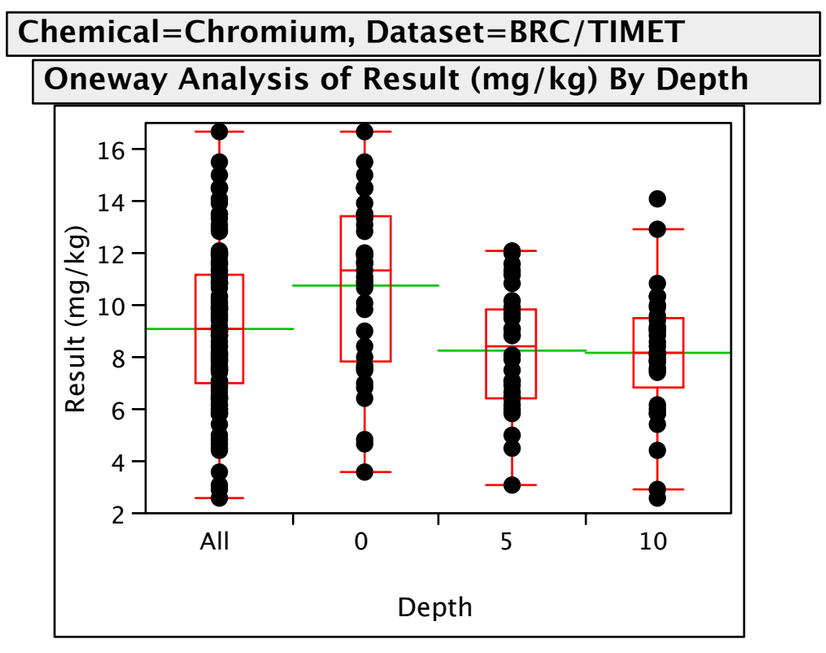


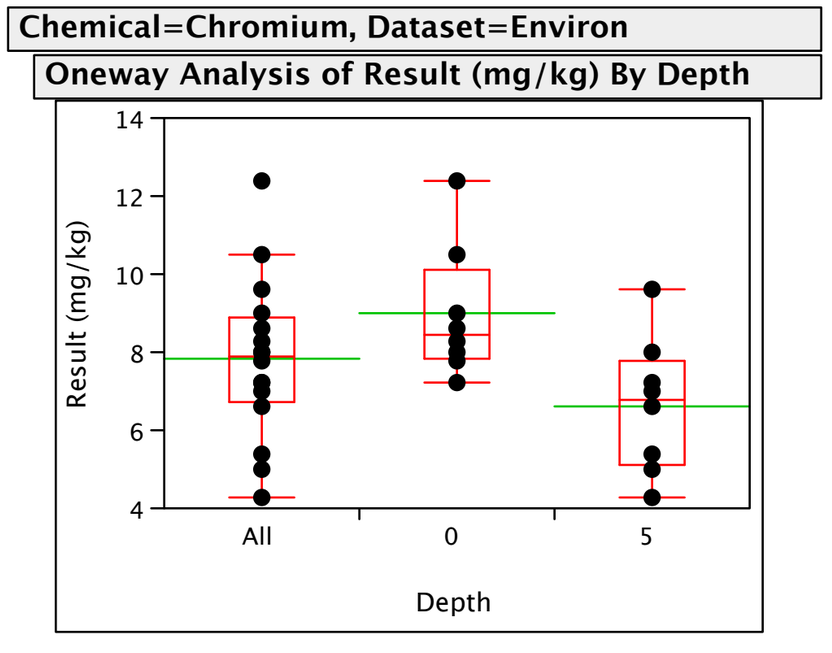
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









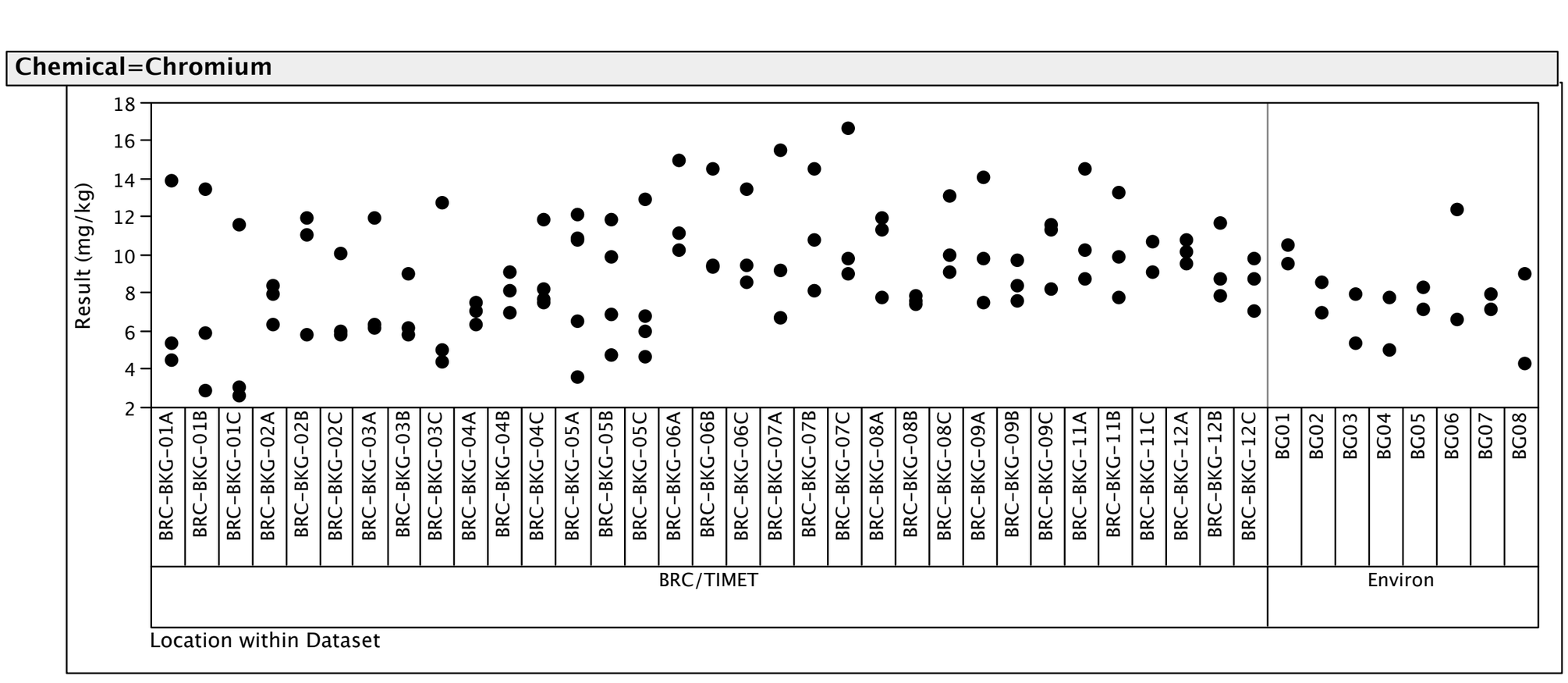
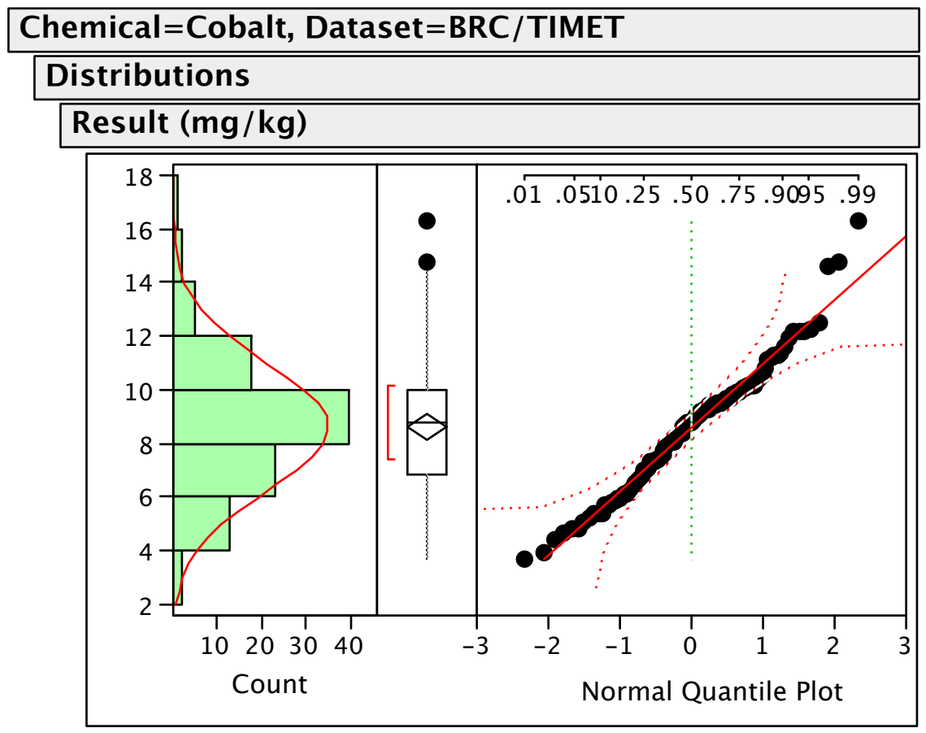
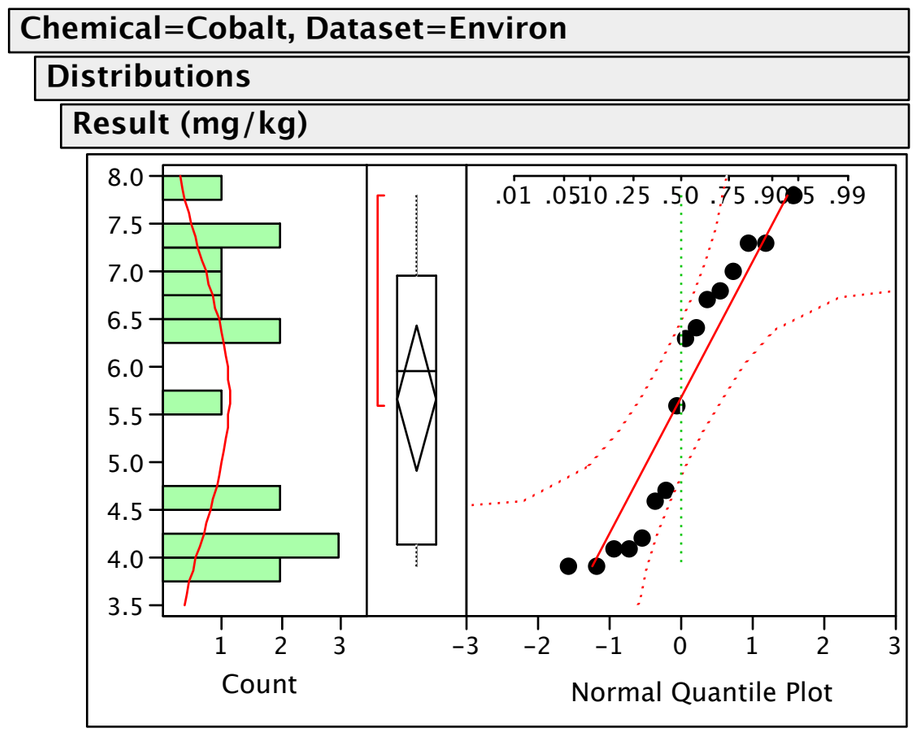
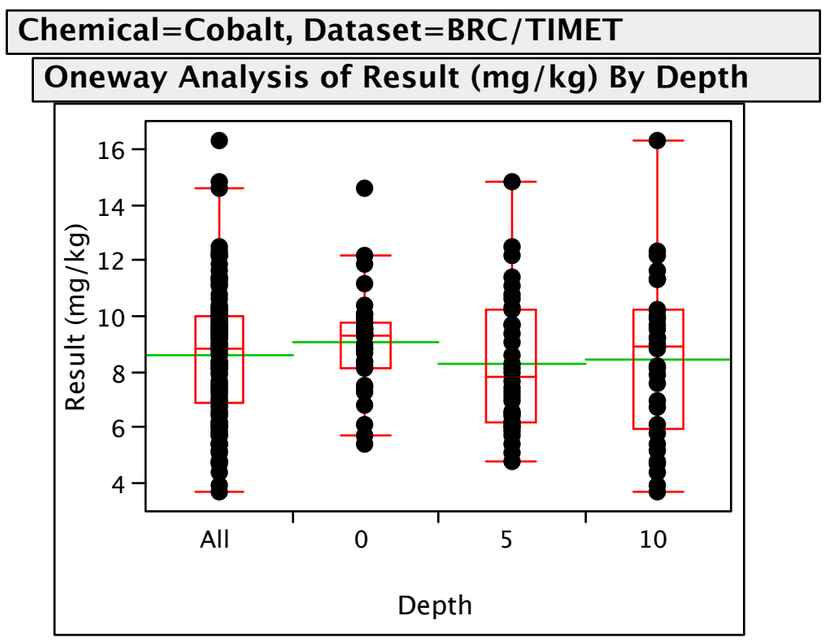


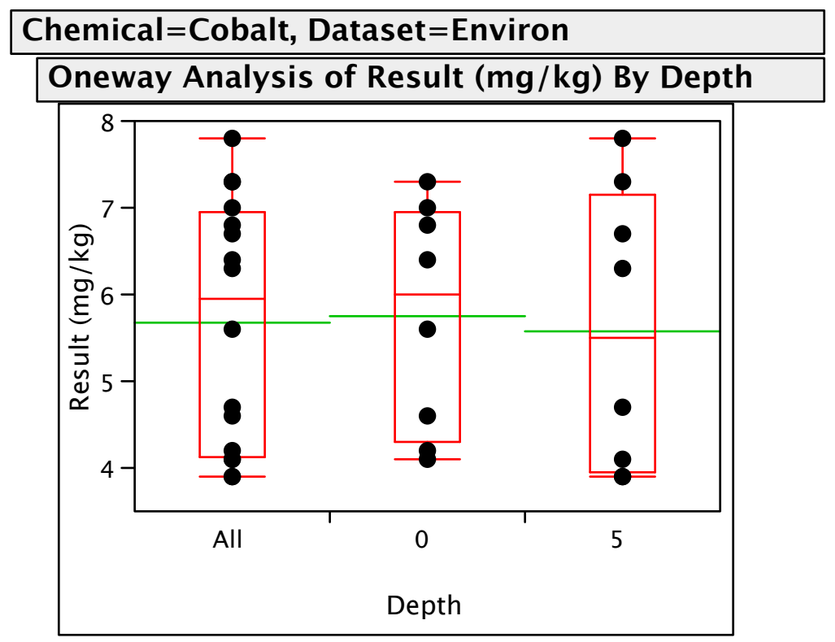
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









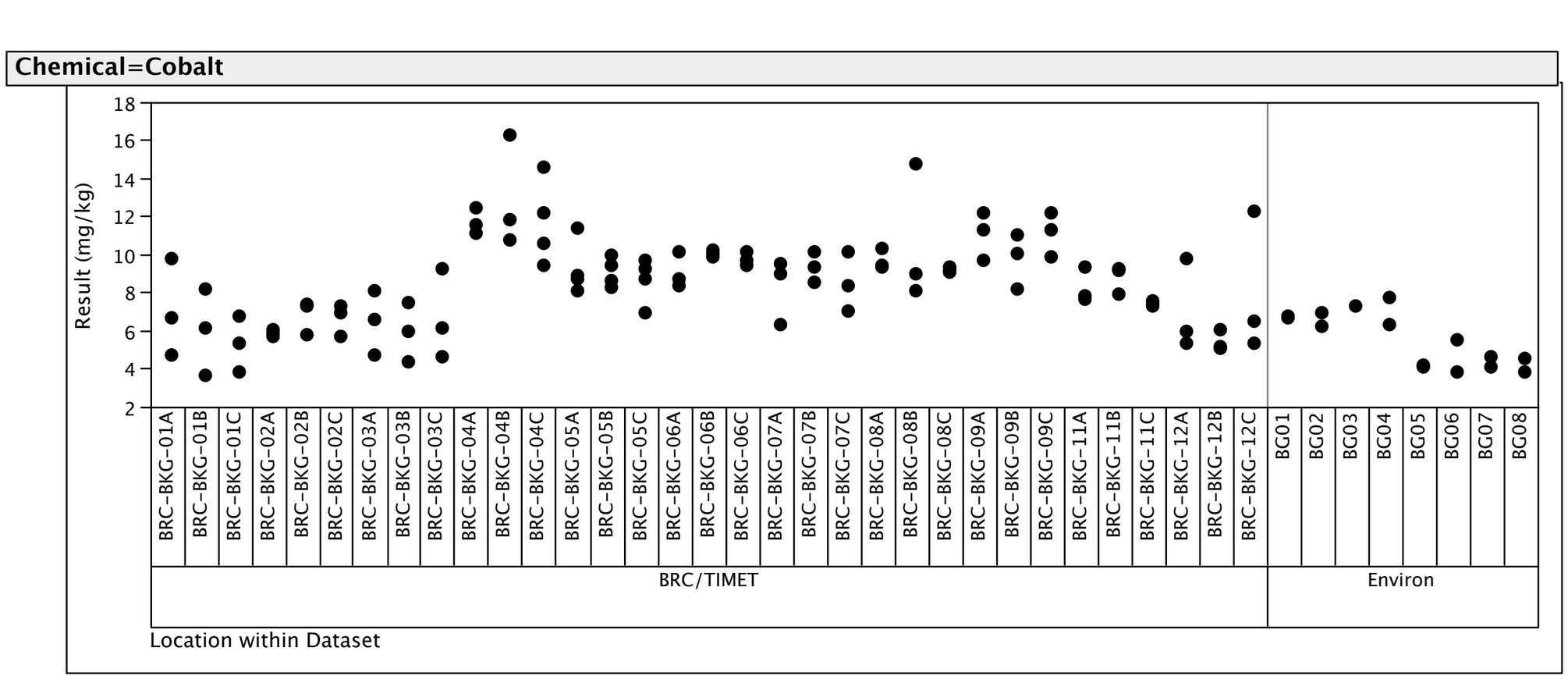
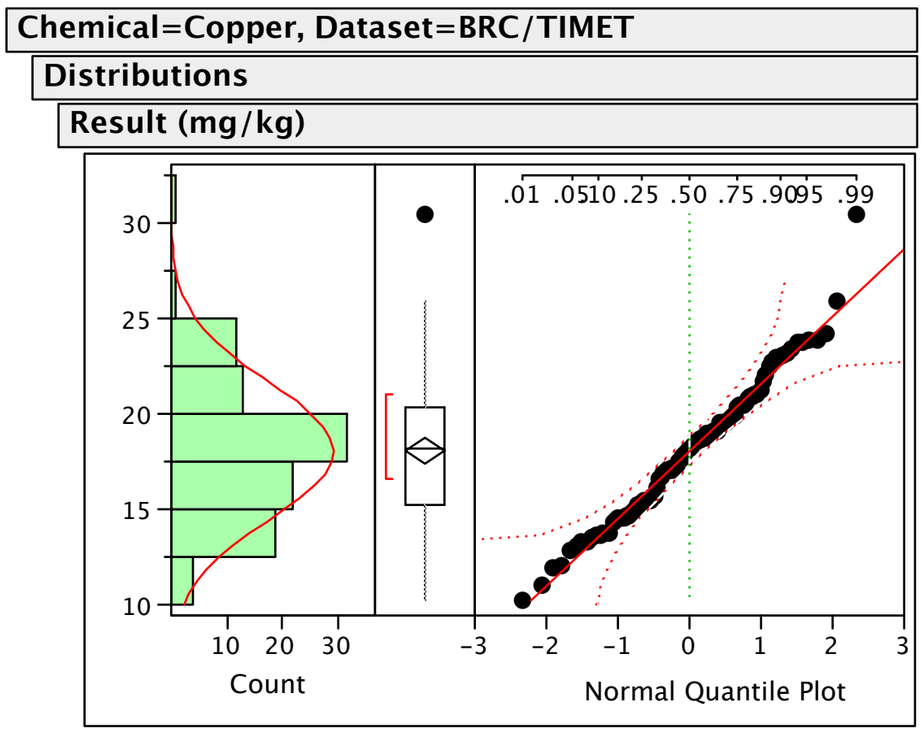
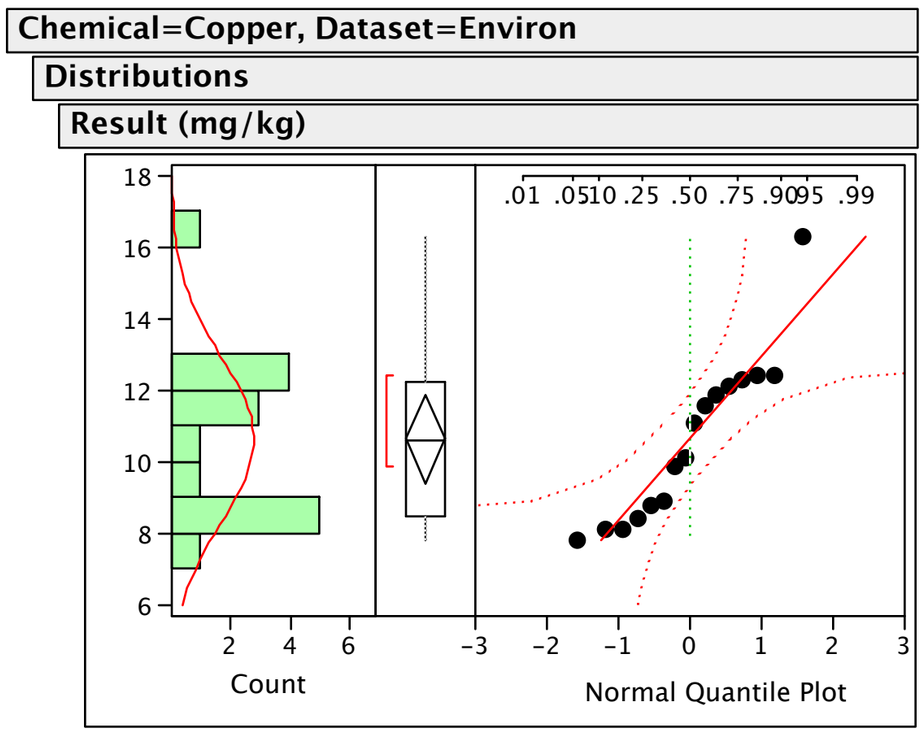
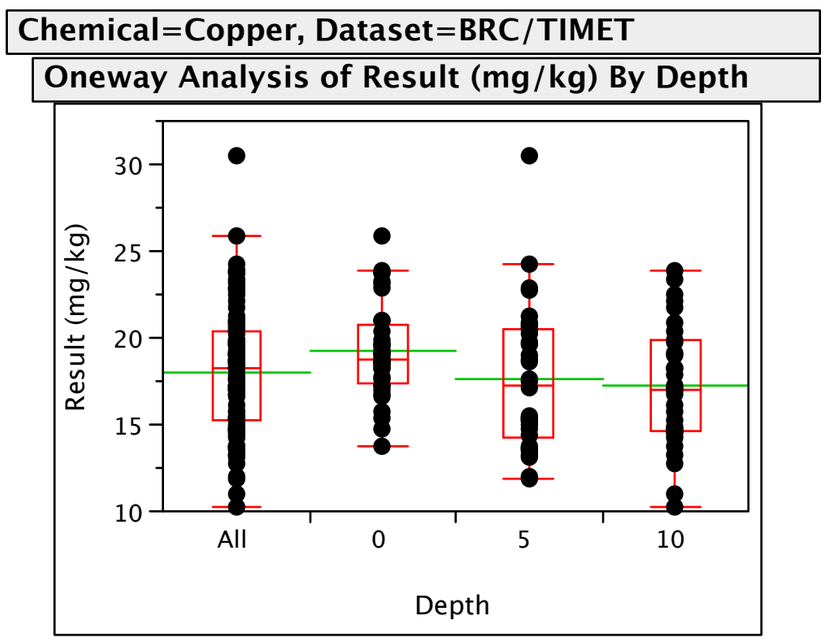


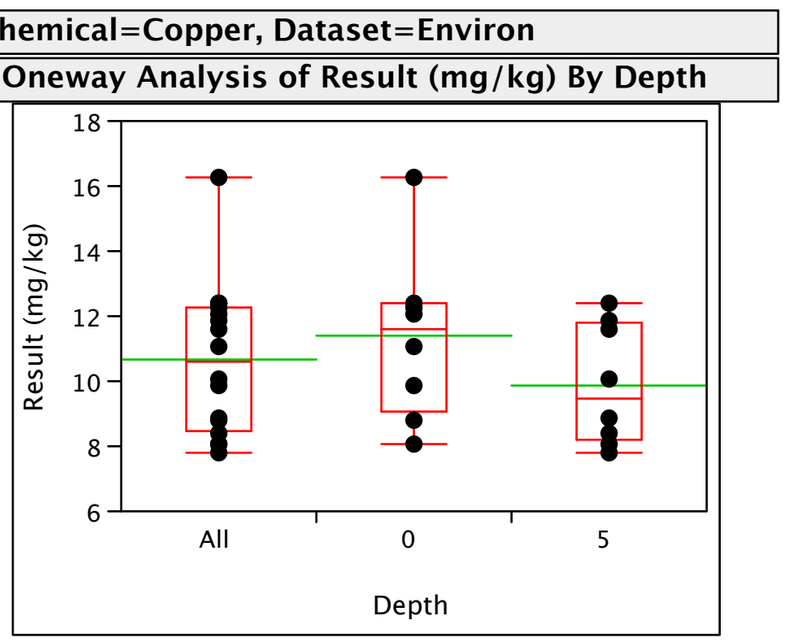
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









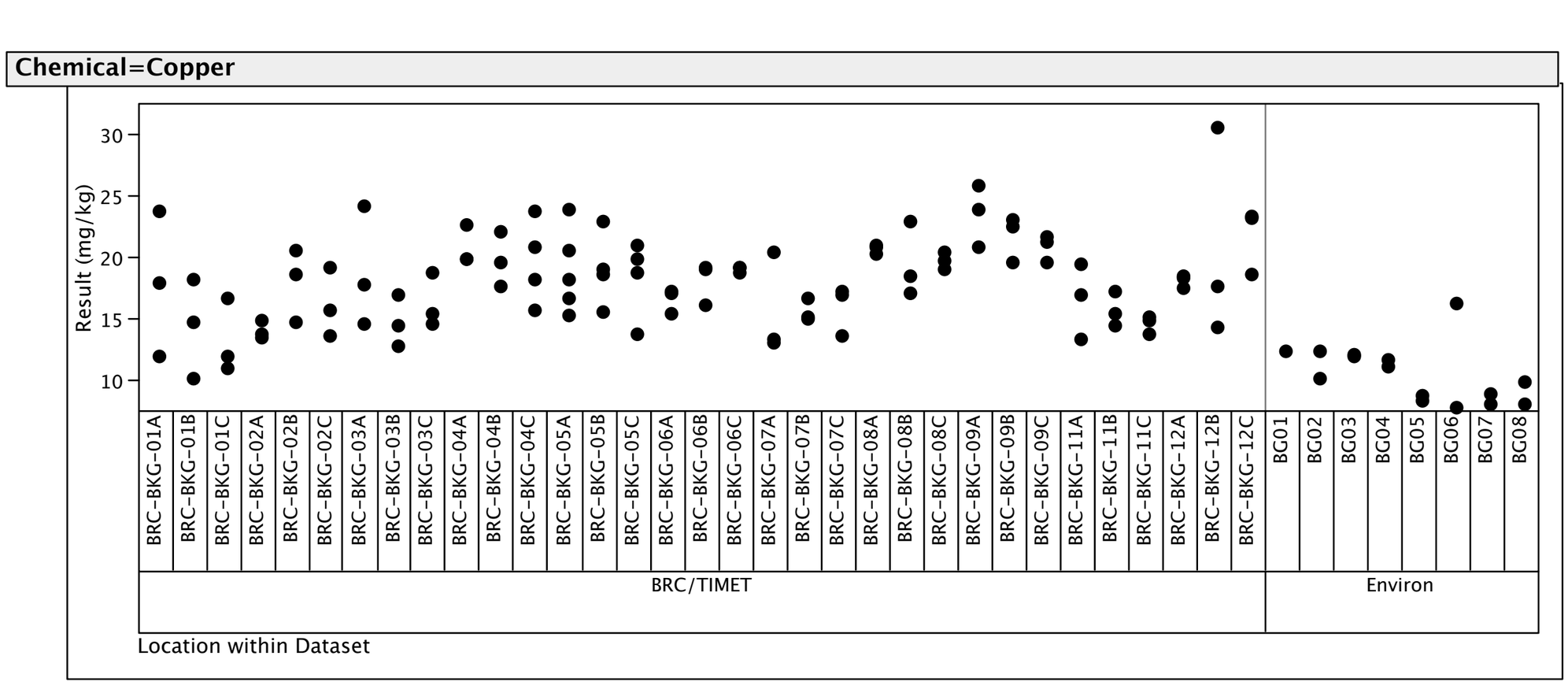
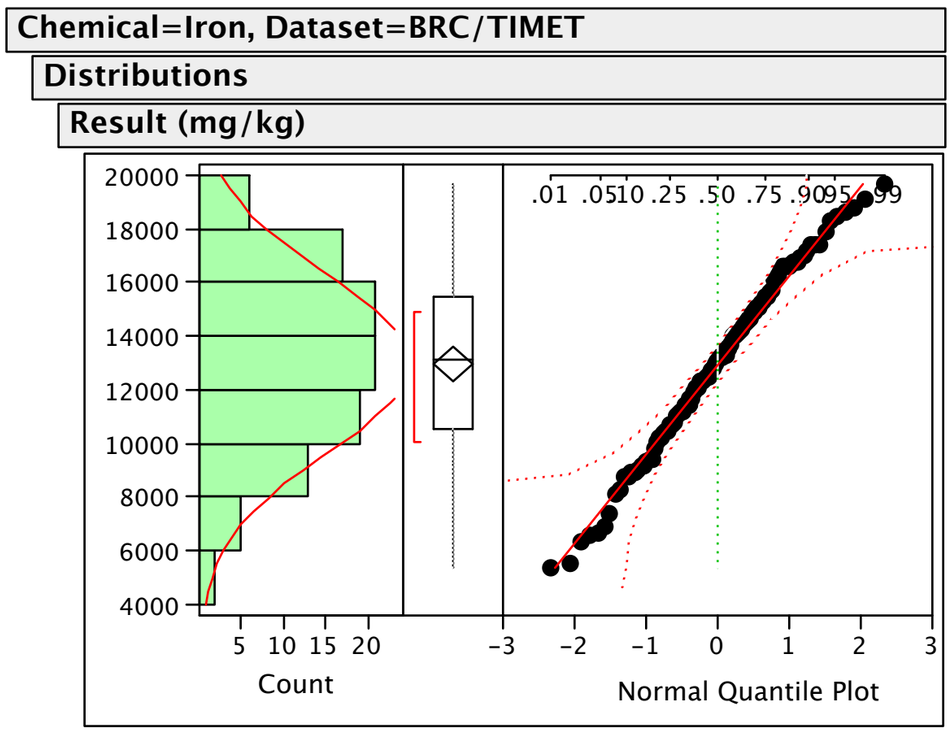
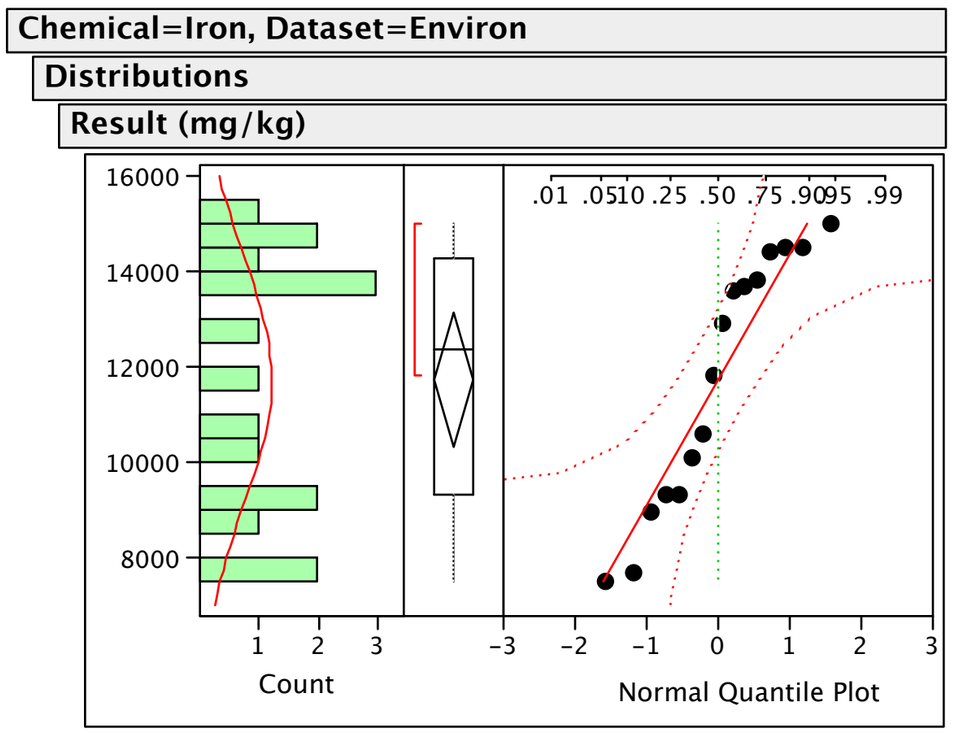
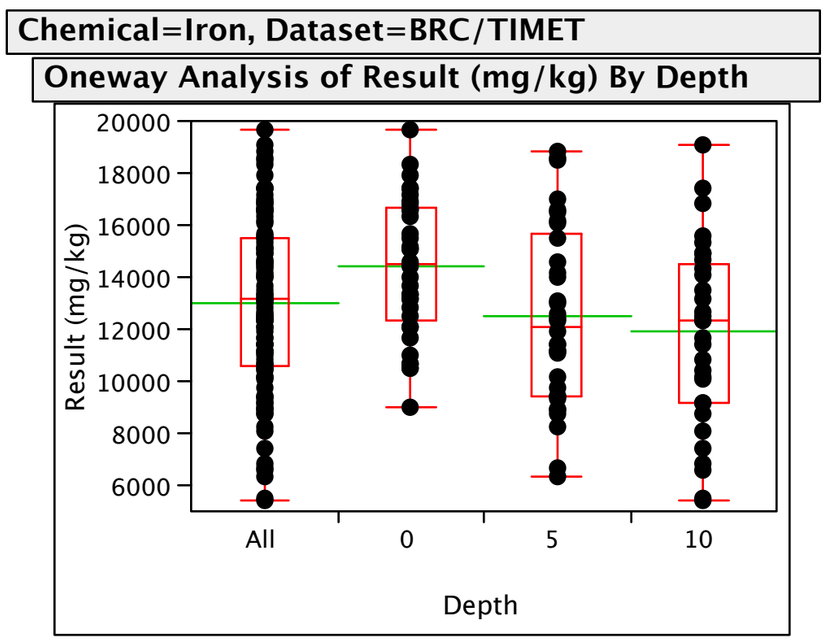


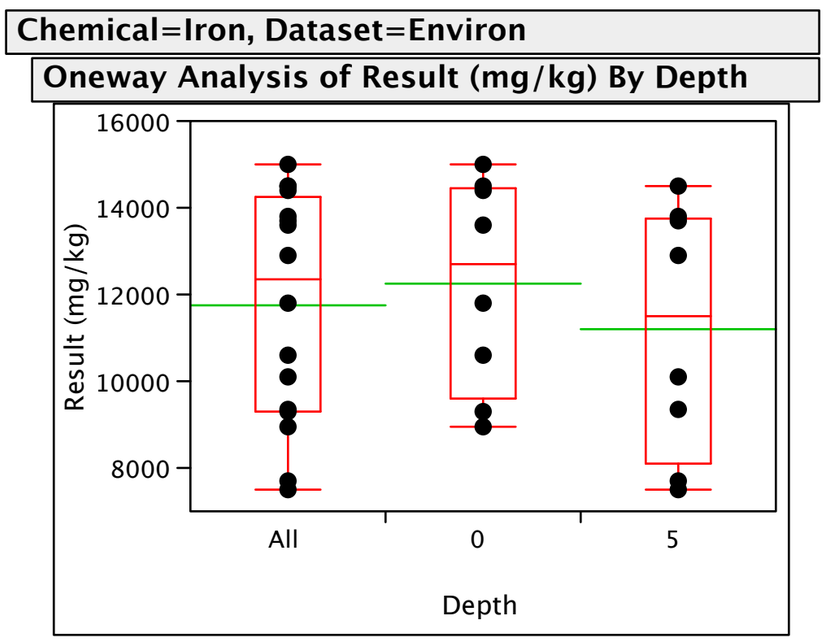
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









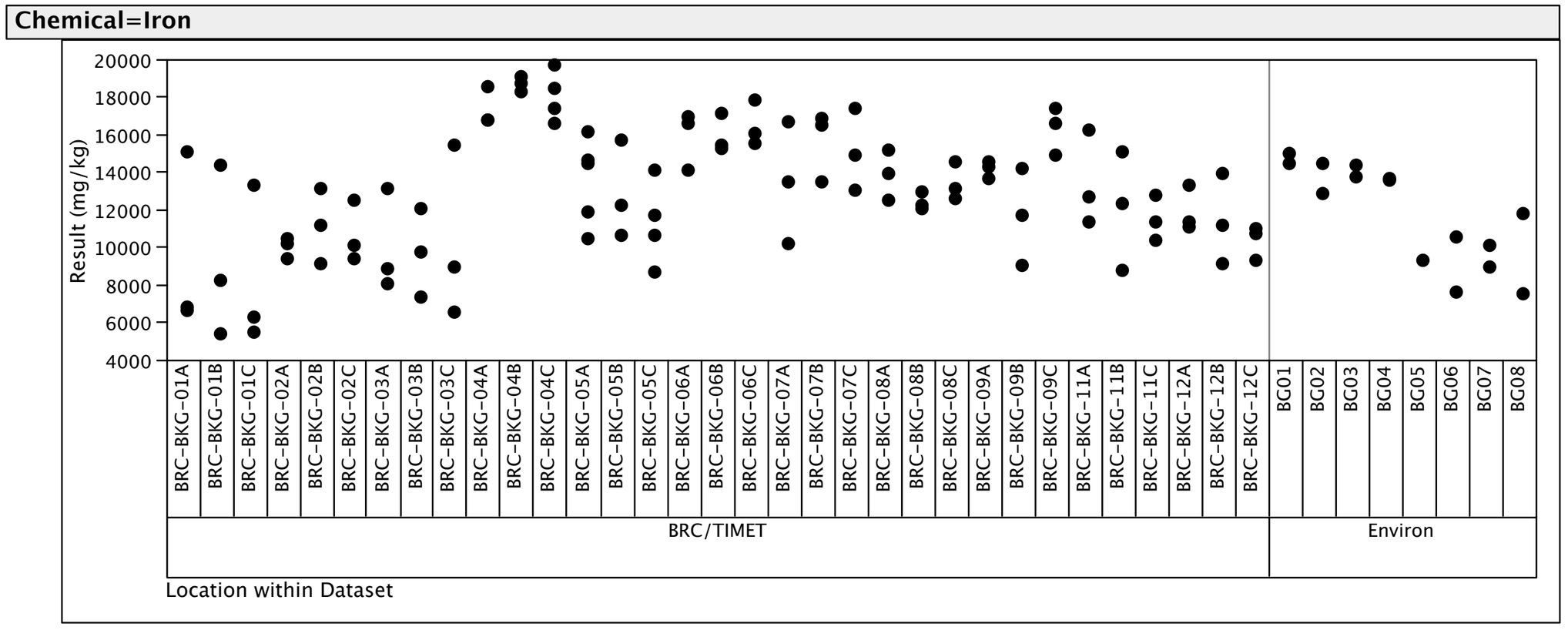
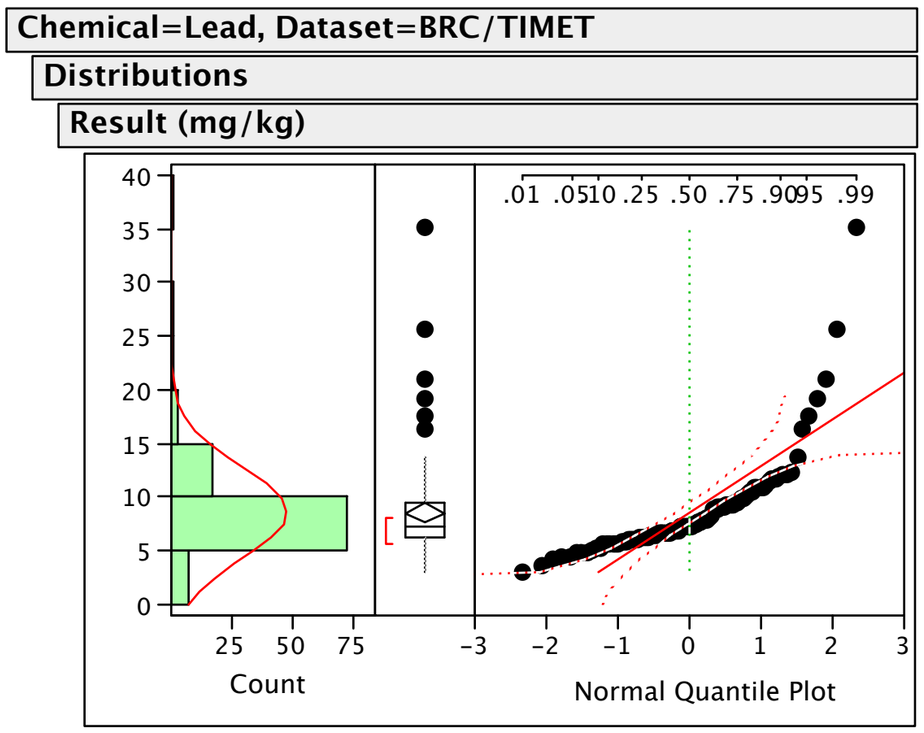
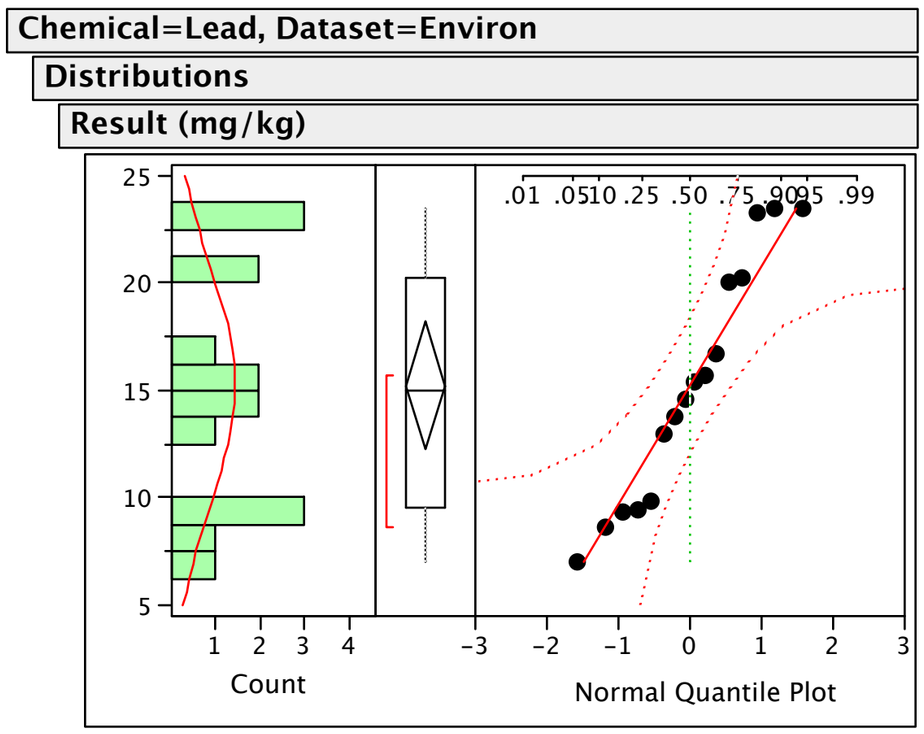
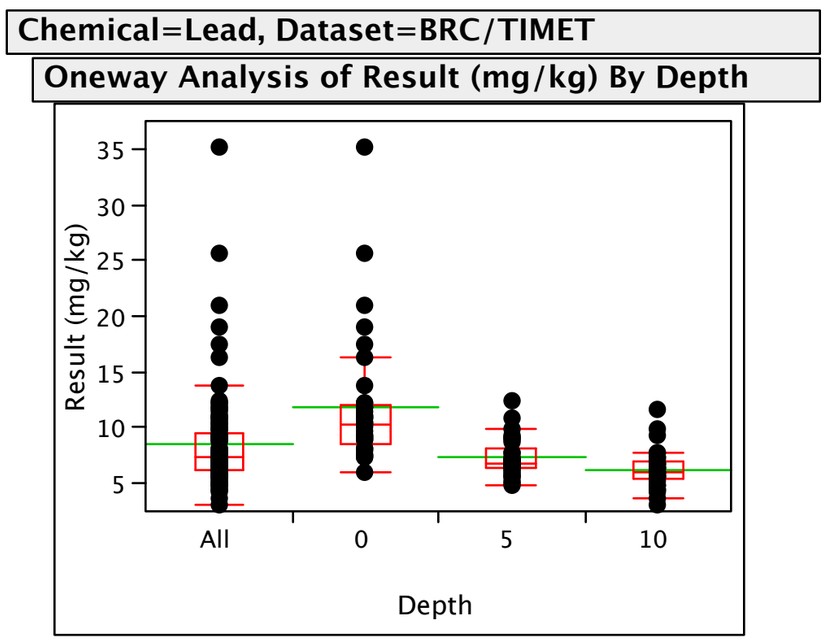


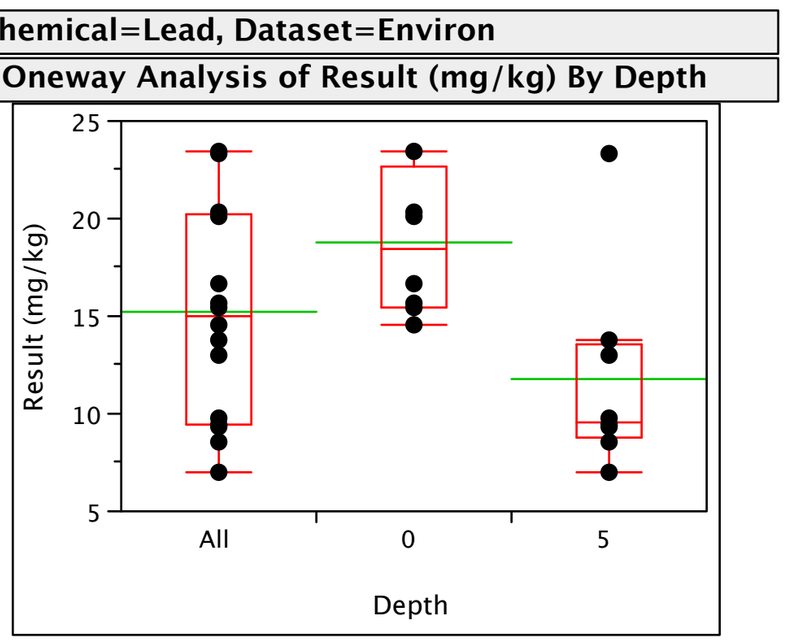
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









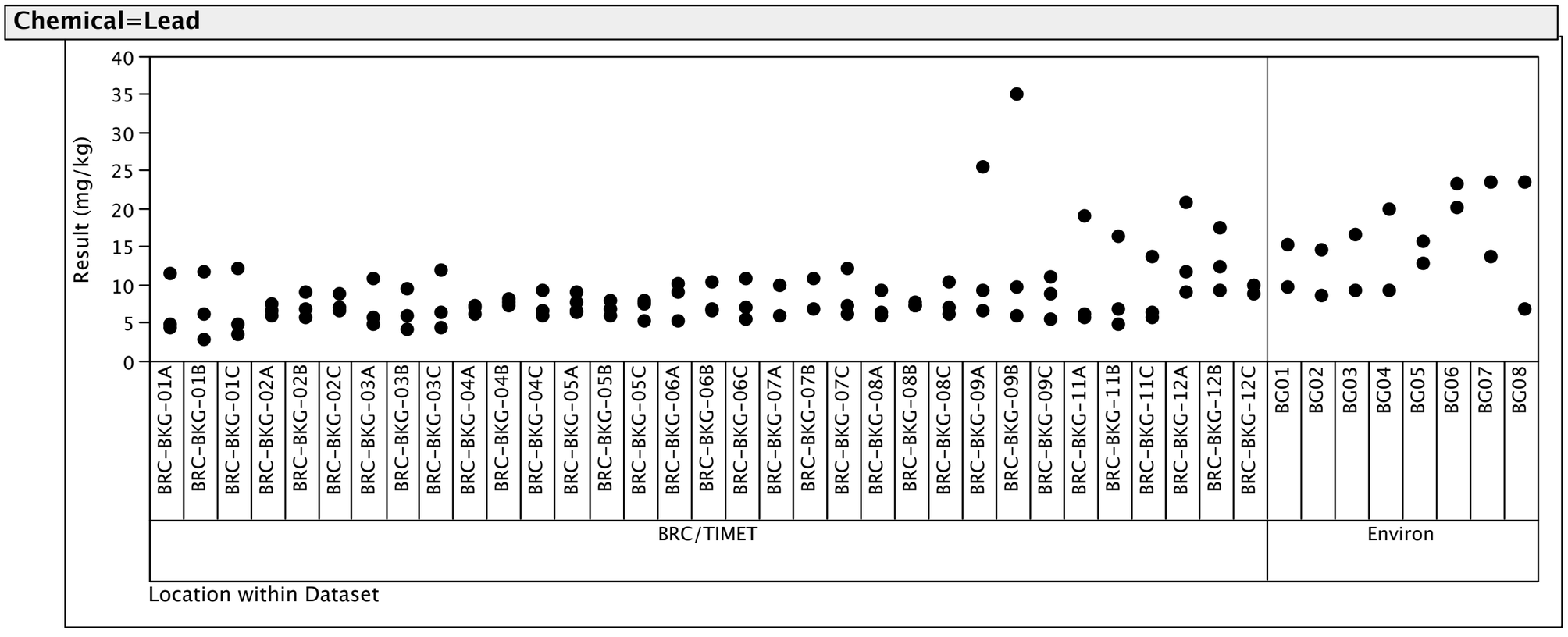
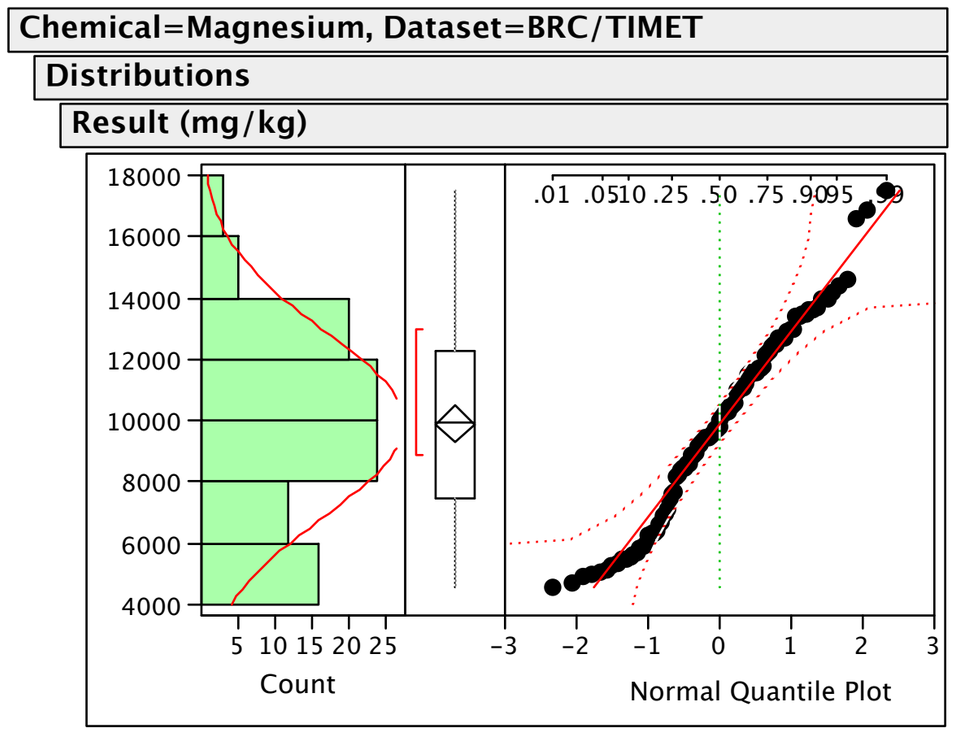
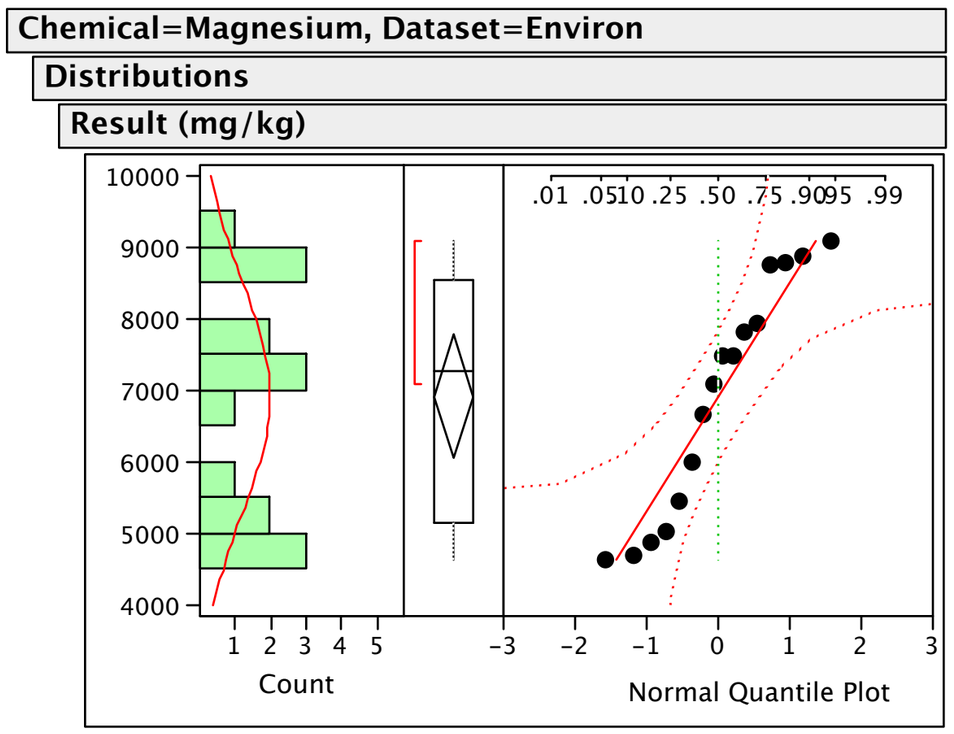
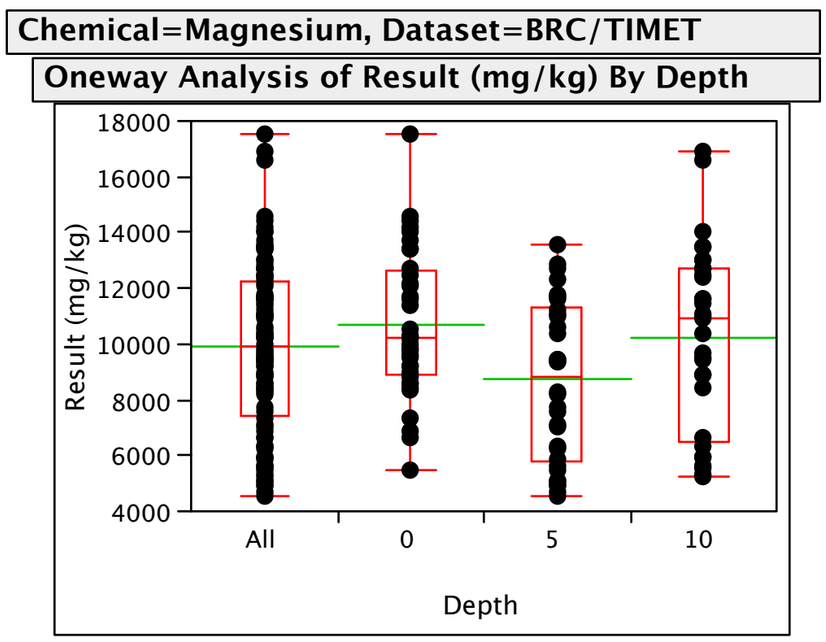


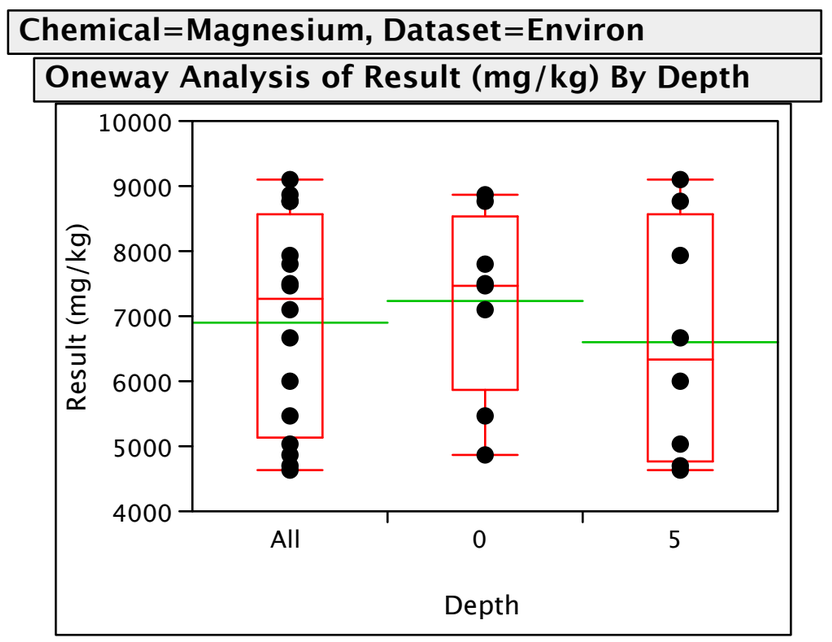
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









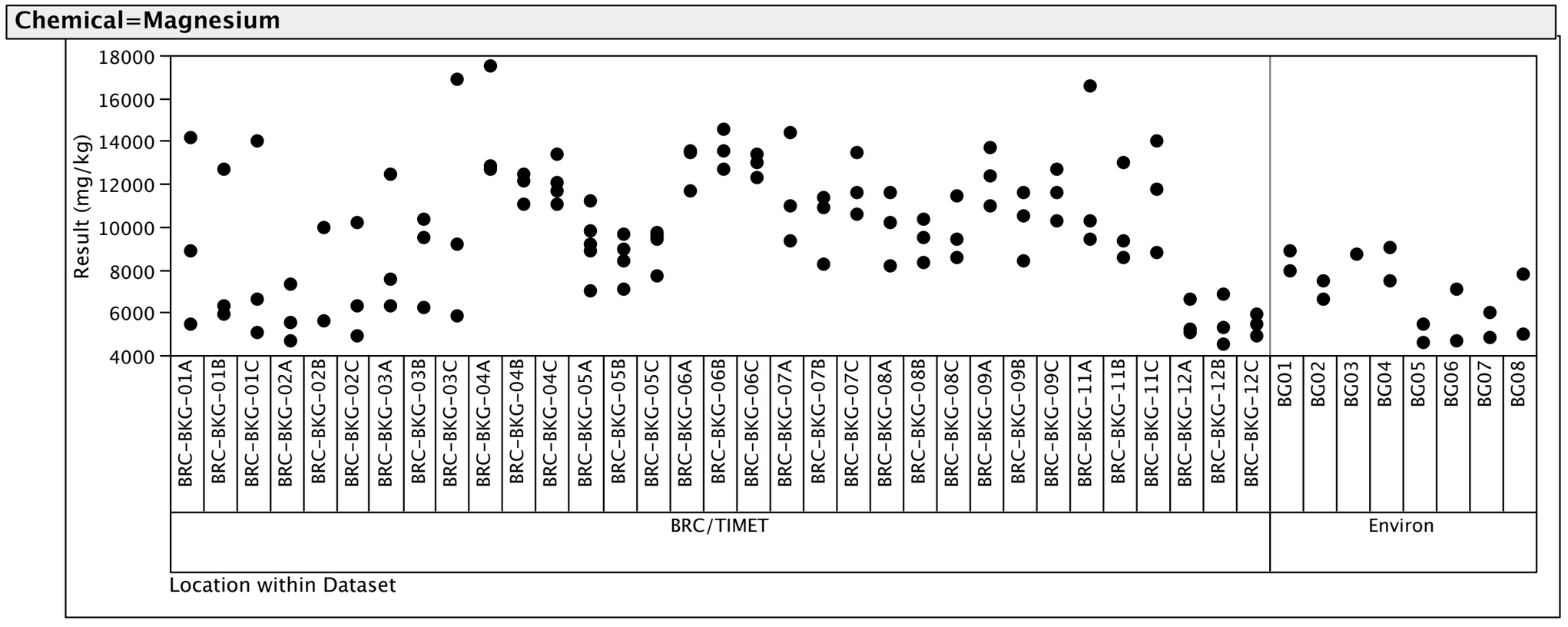
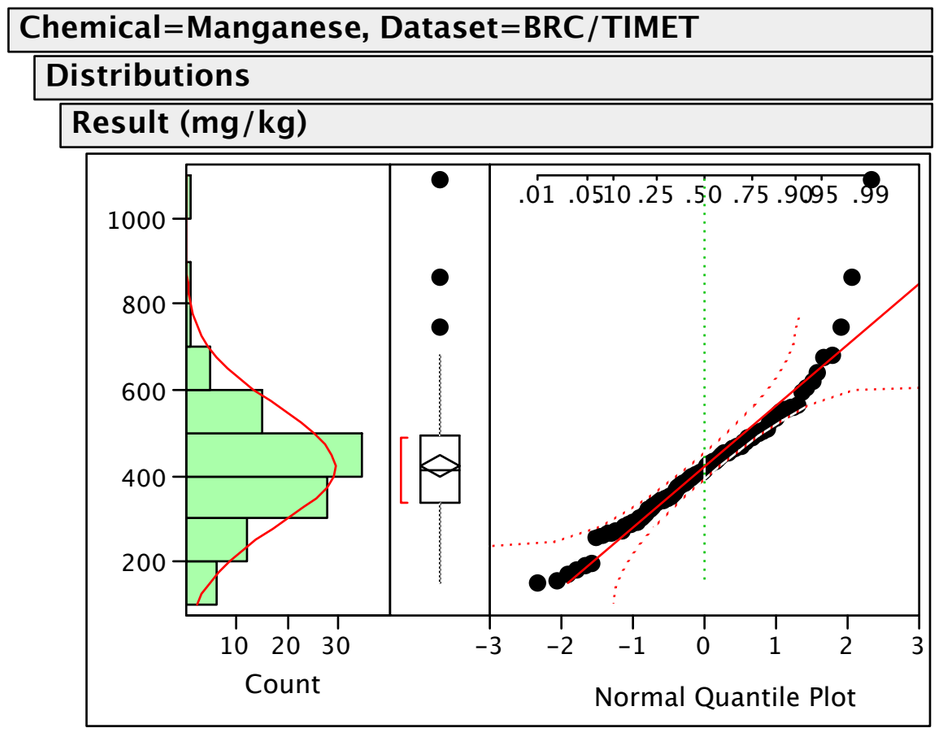
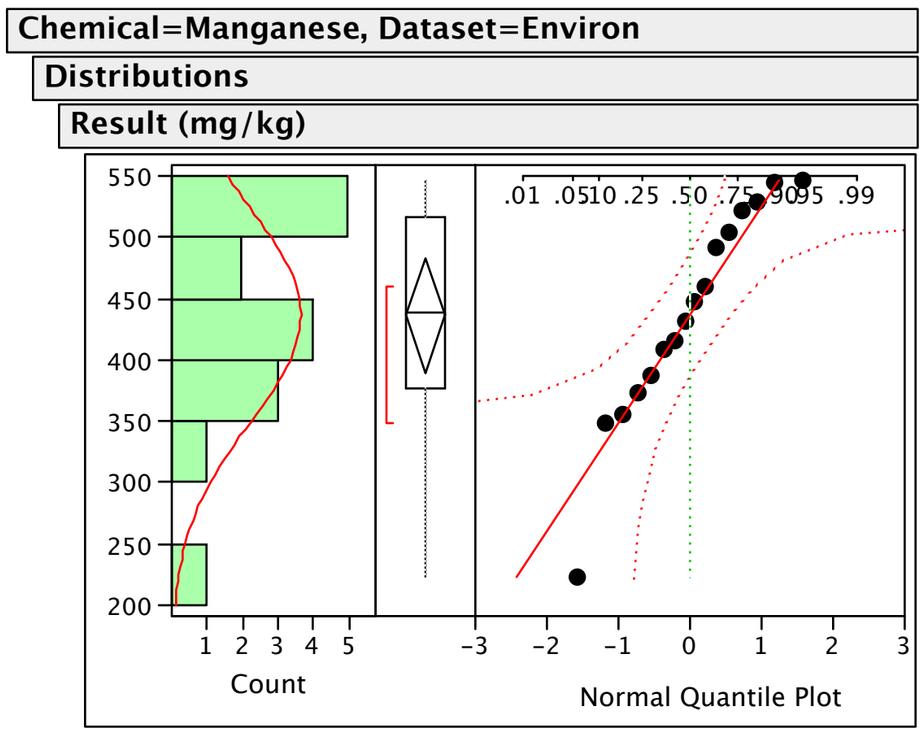
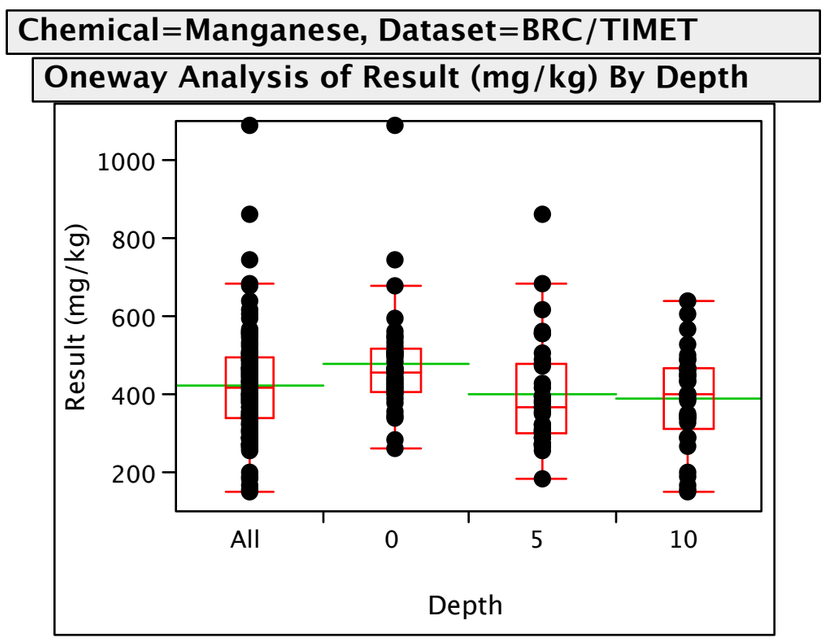


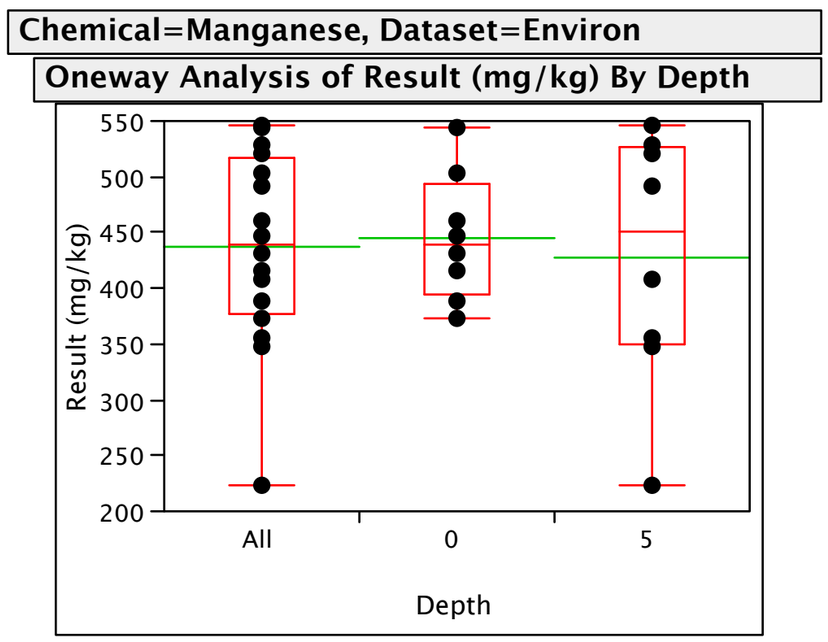
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









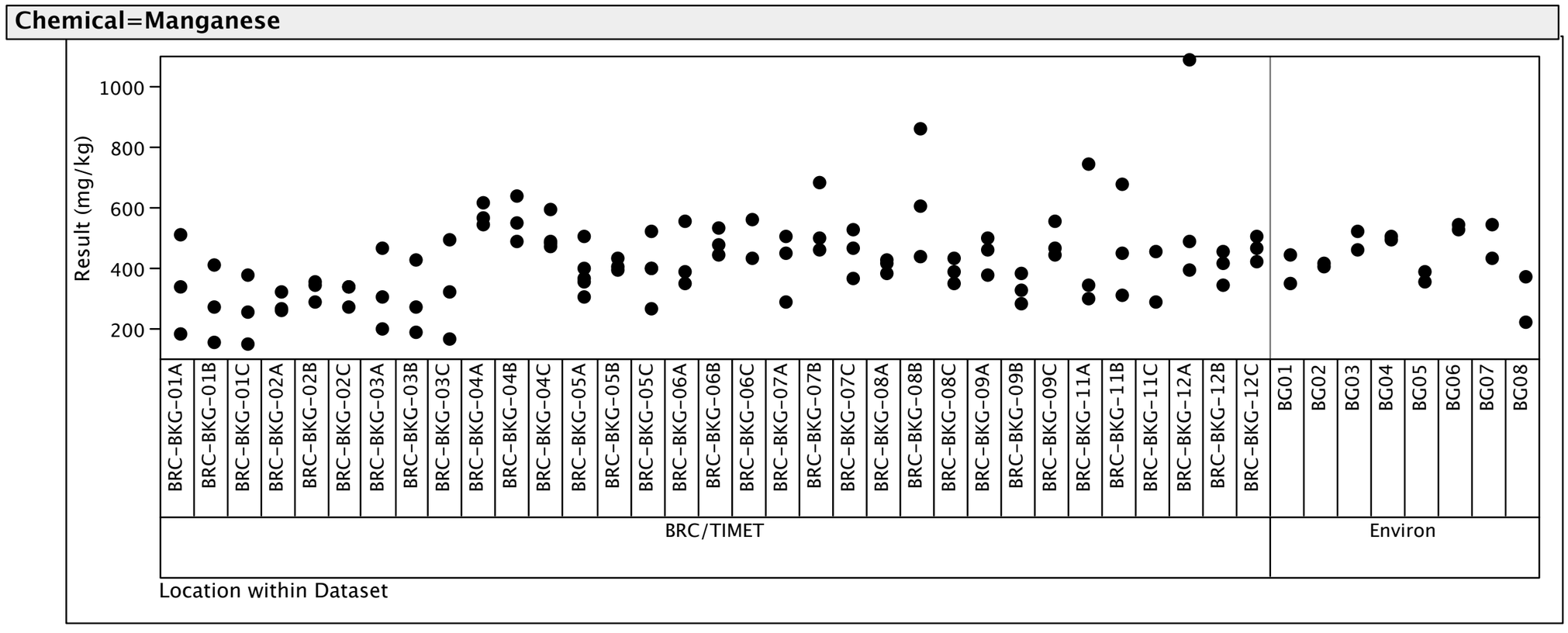
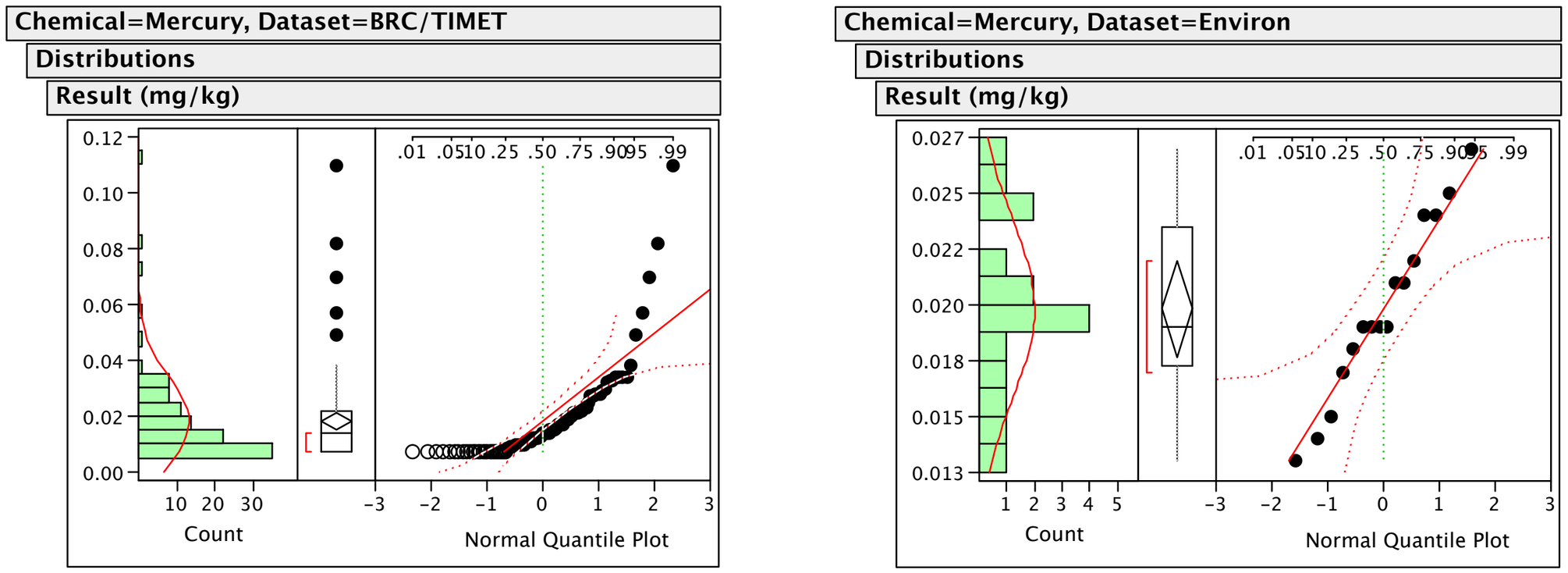
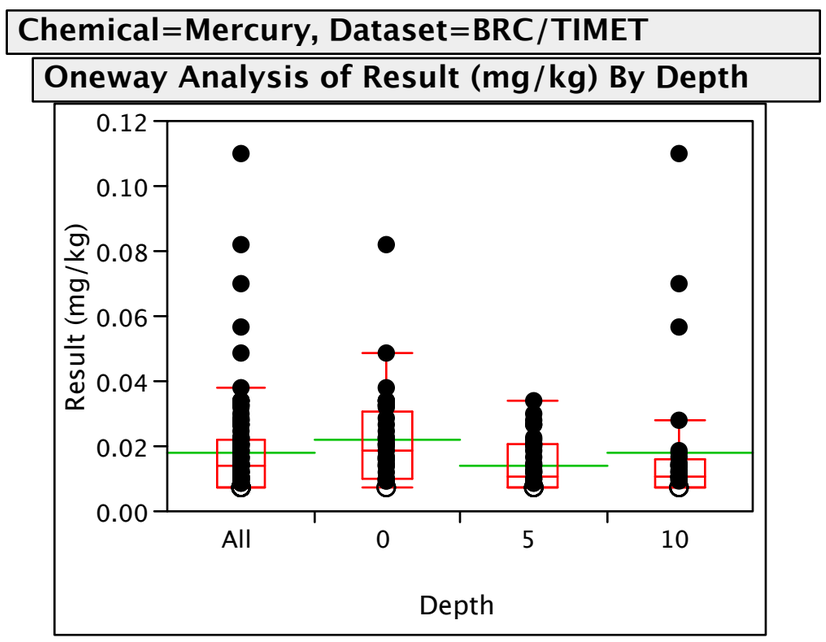
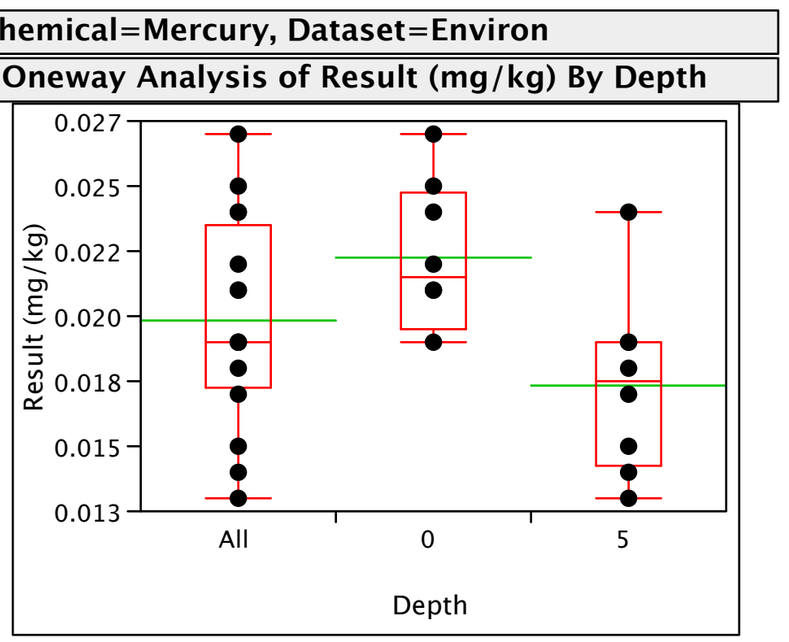


FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL







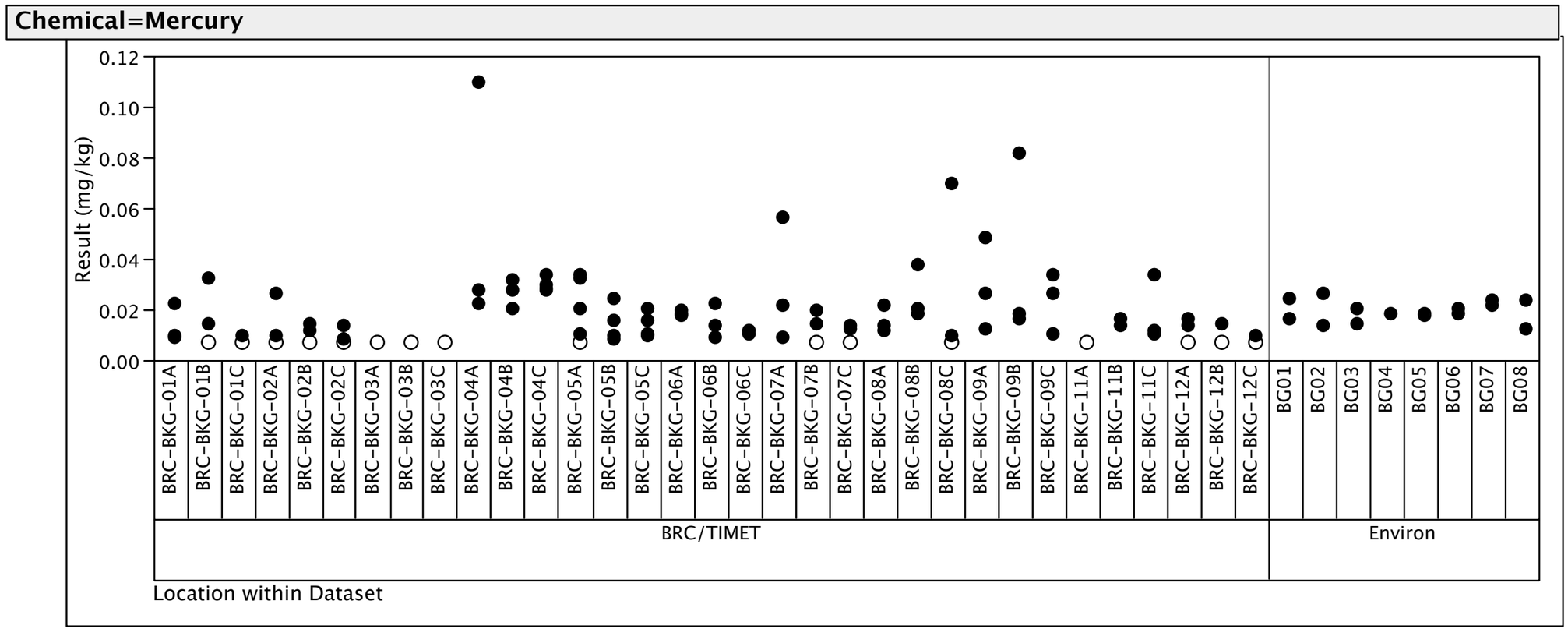
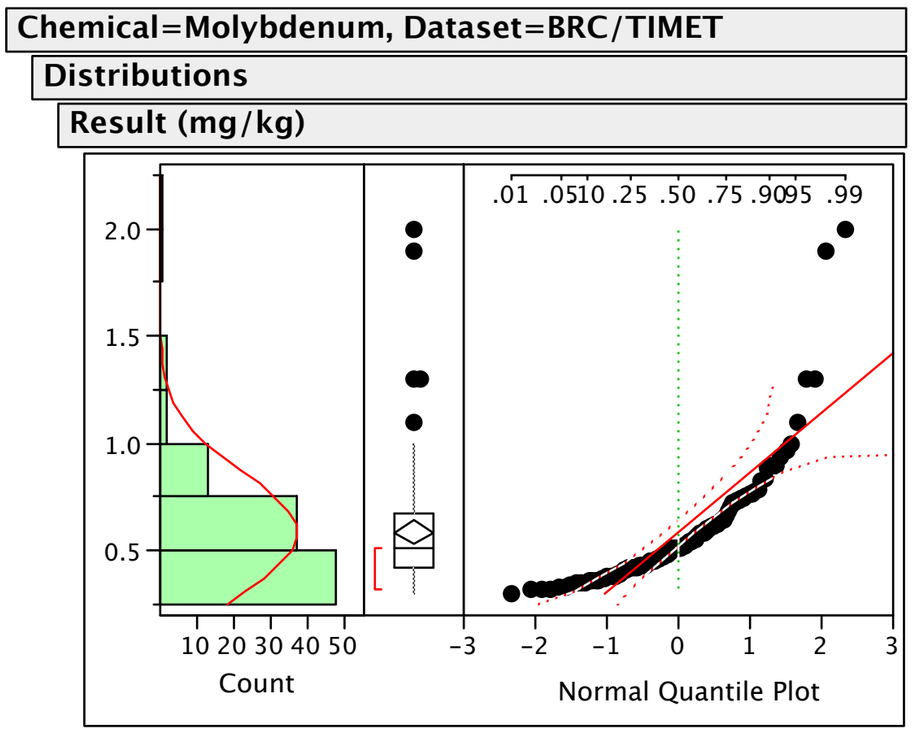
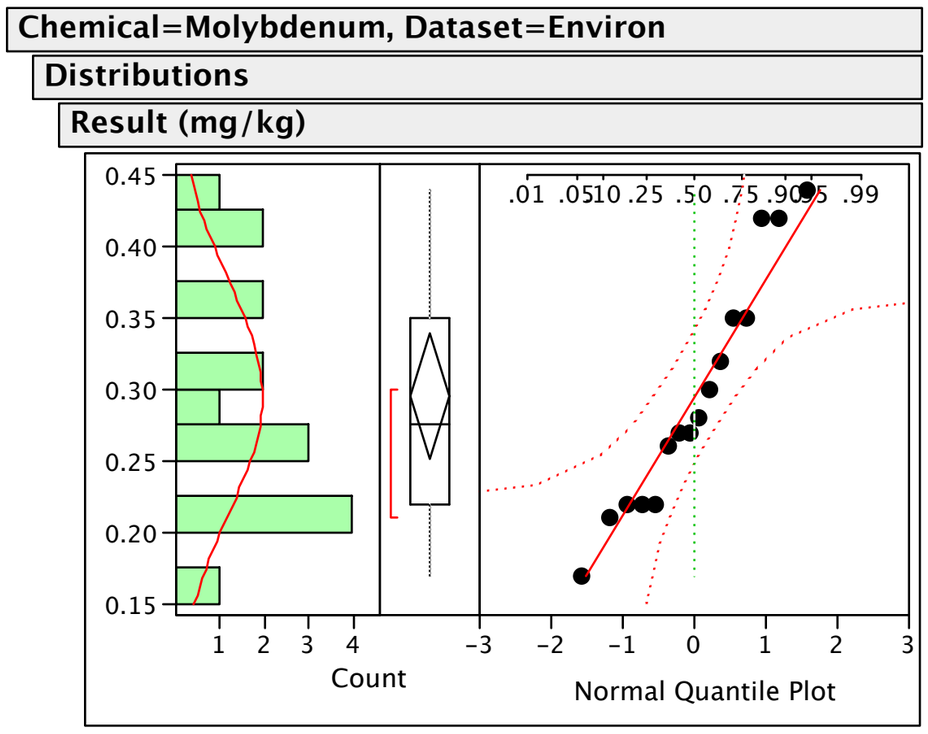
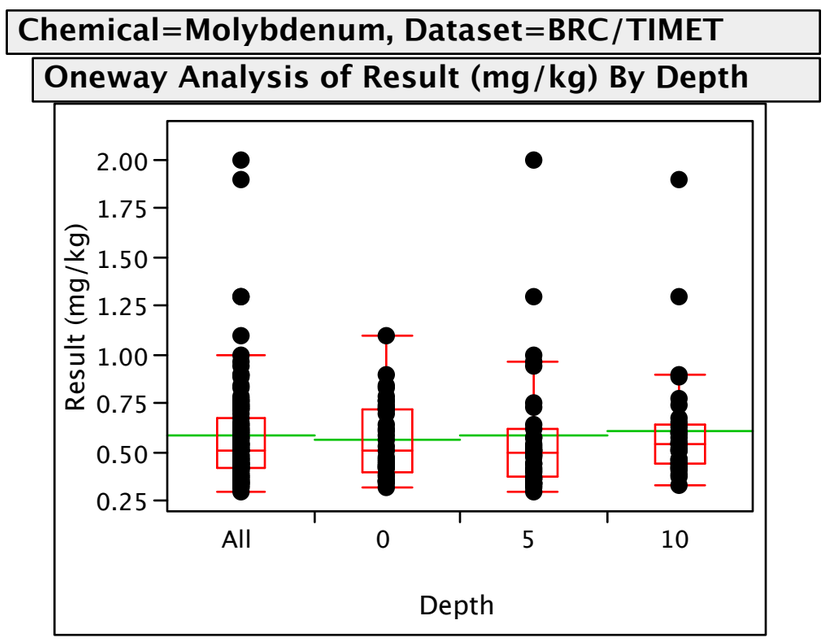


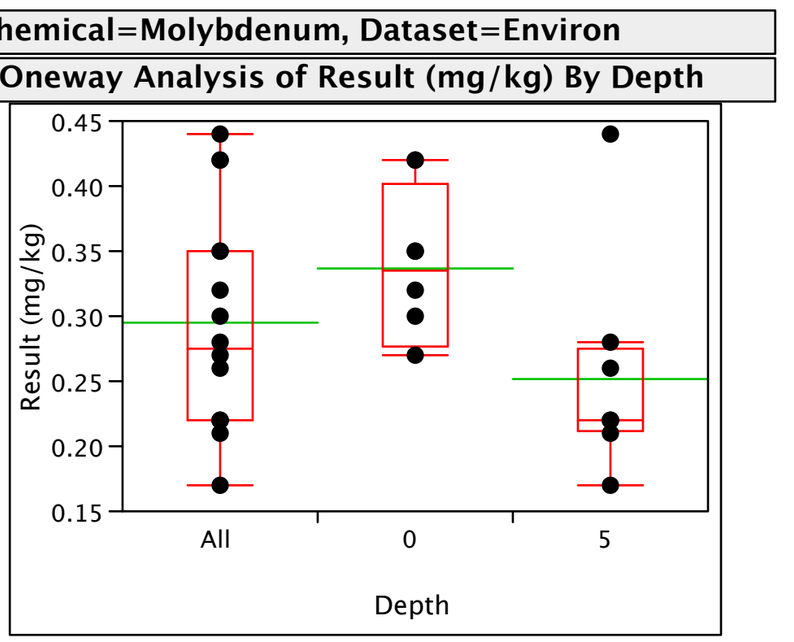
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









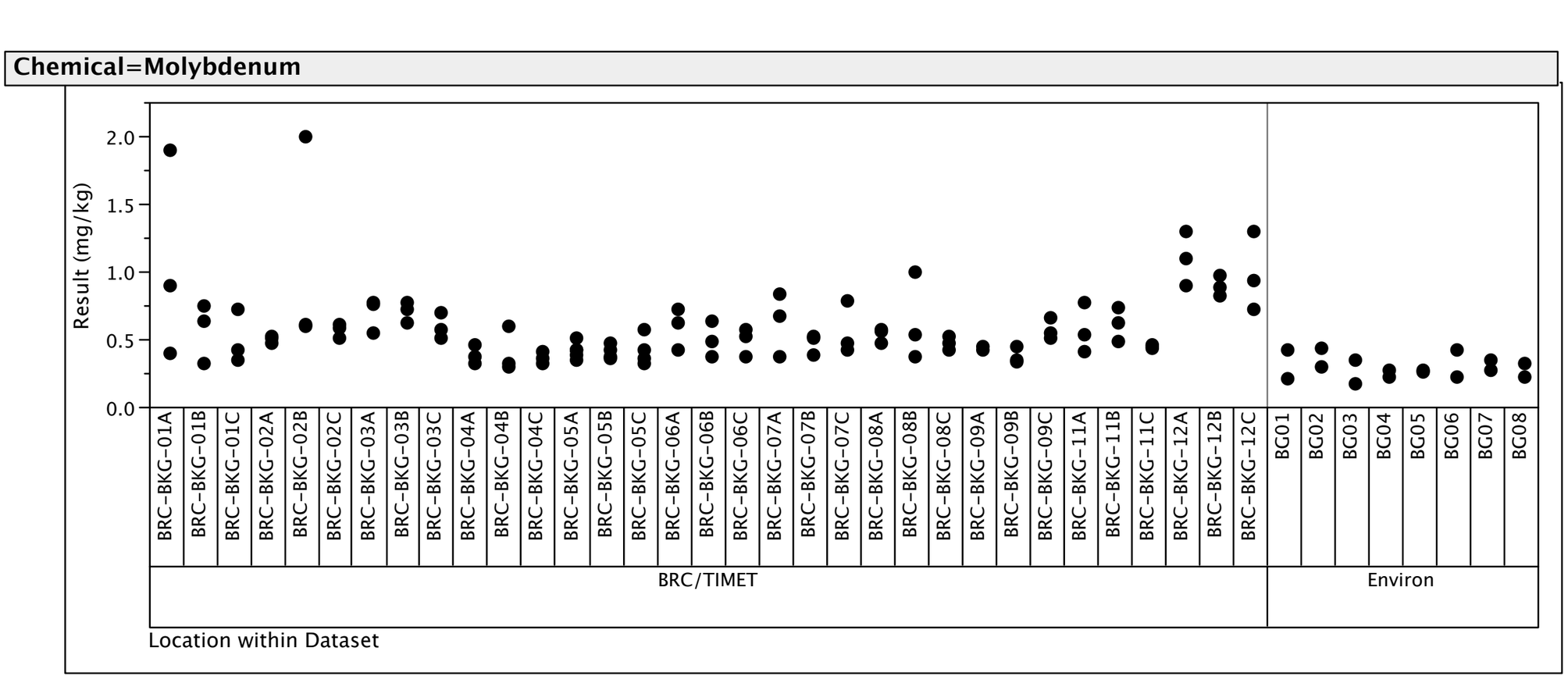
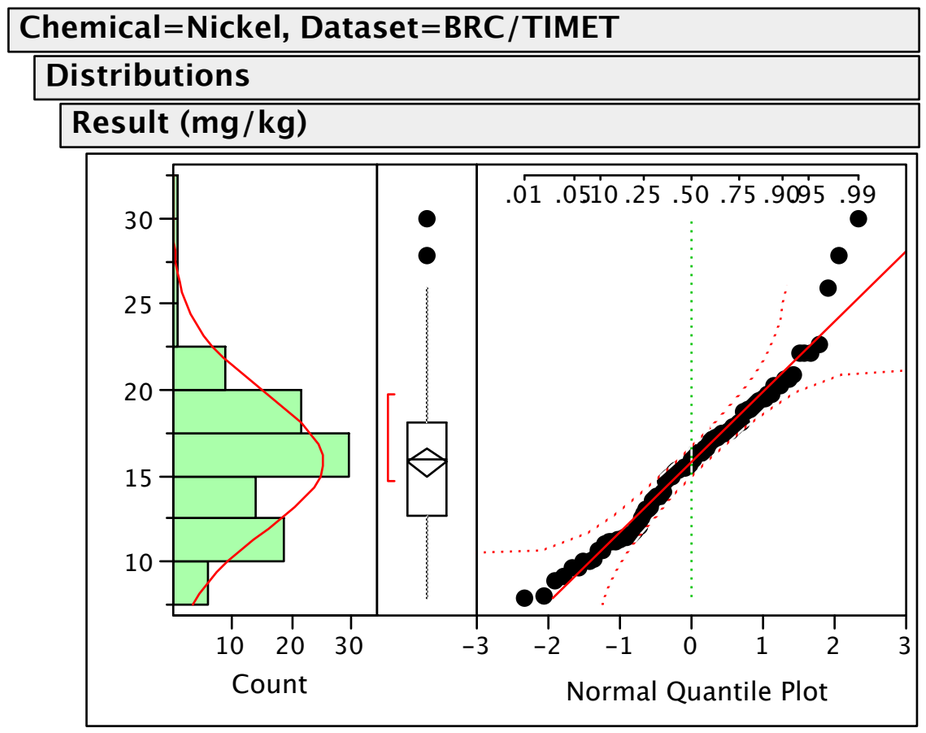
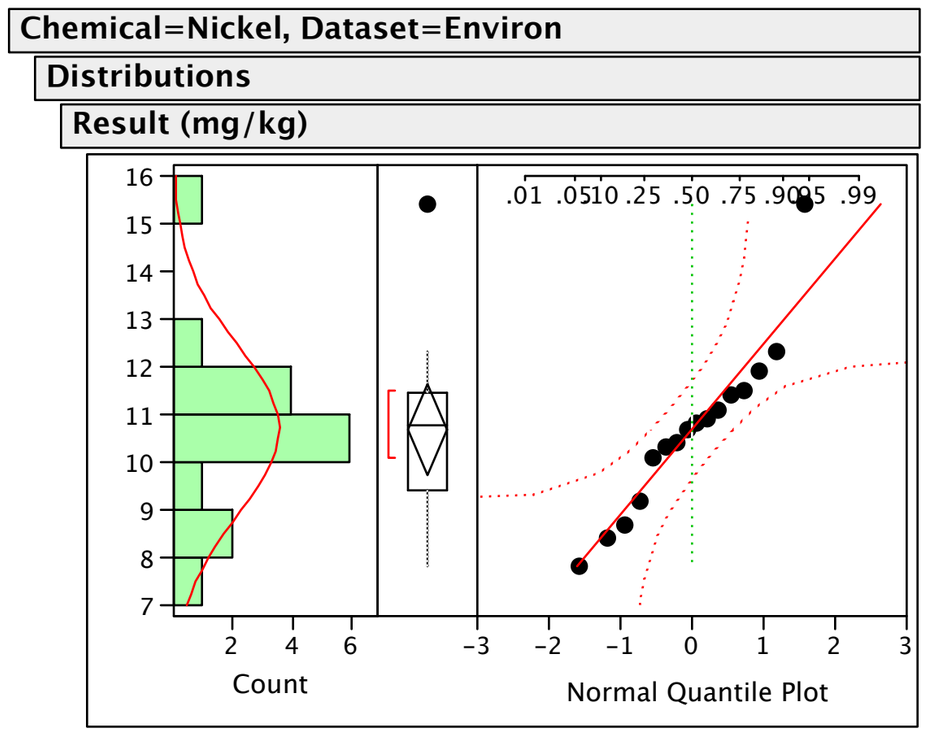
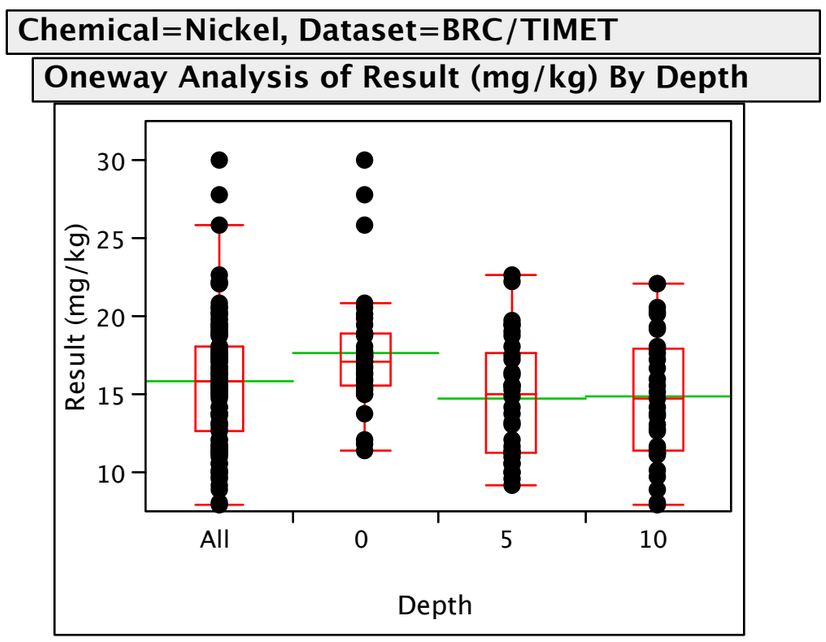


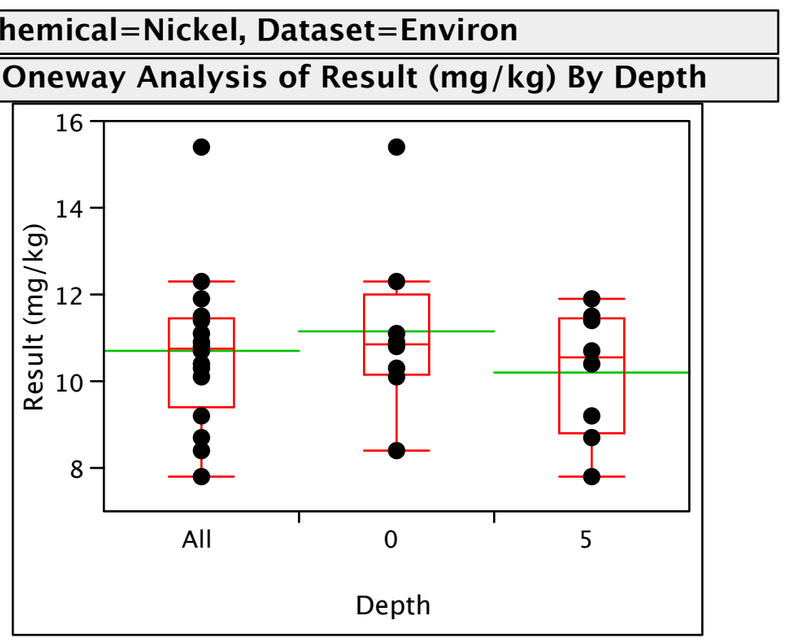
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









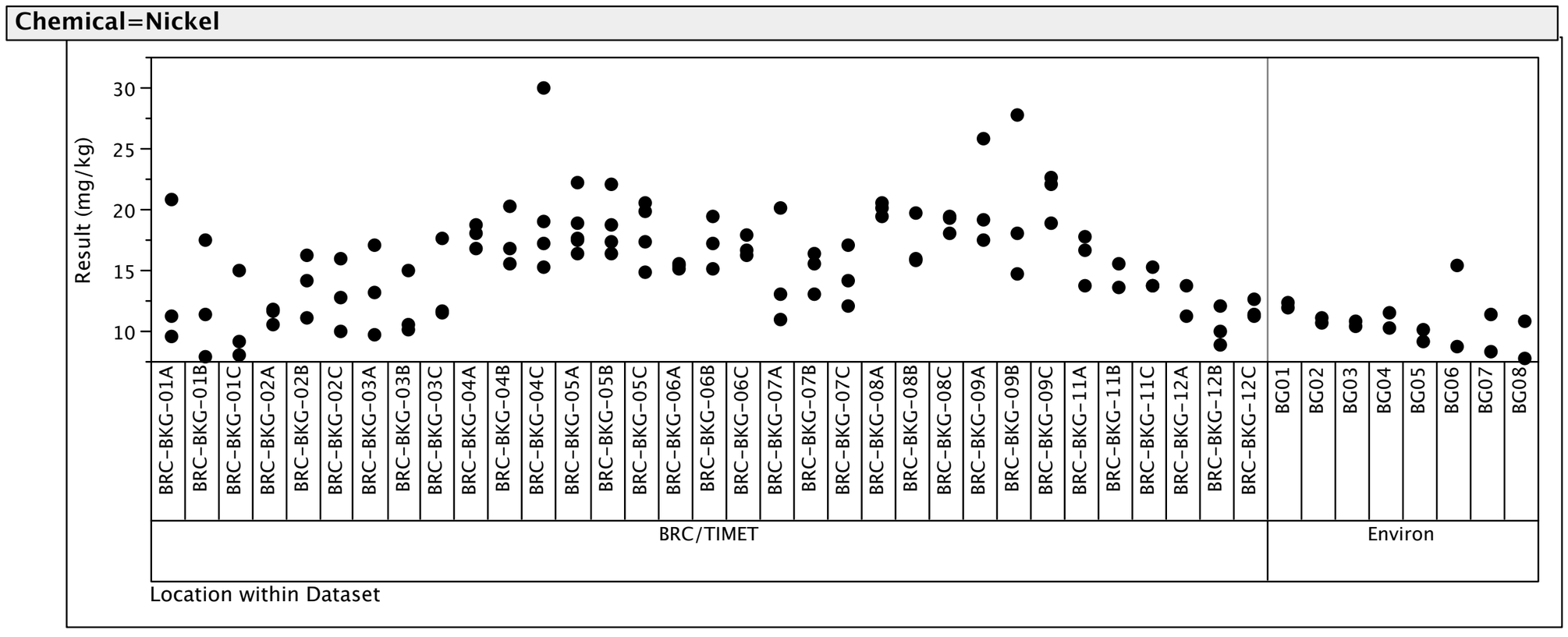
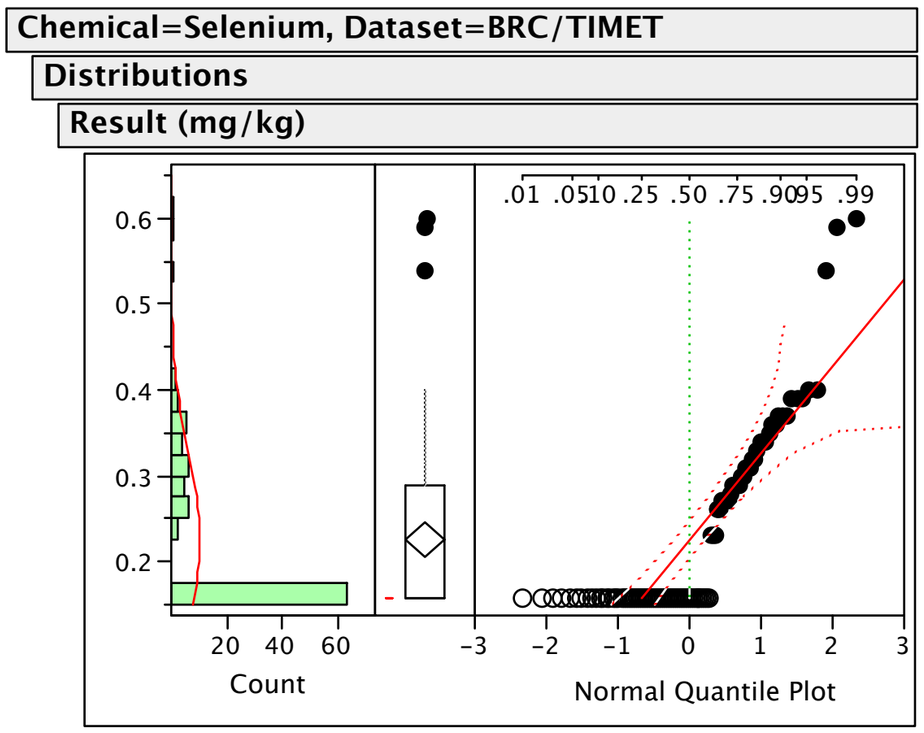
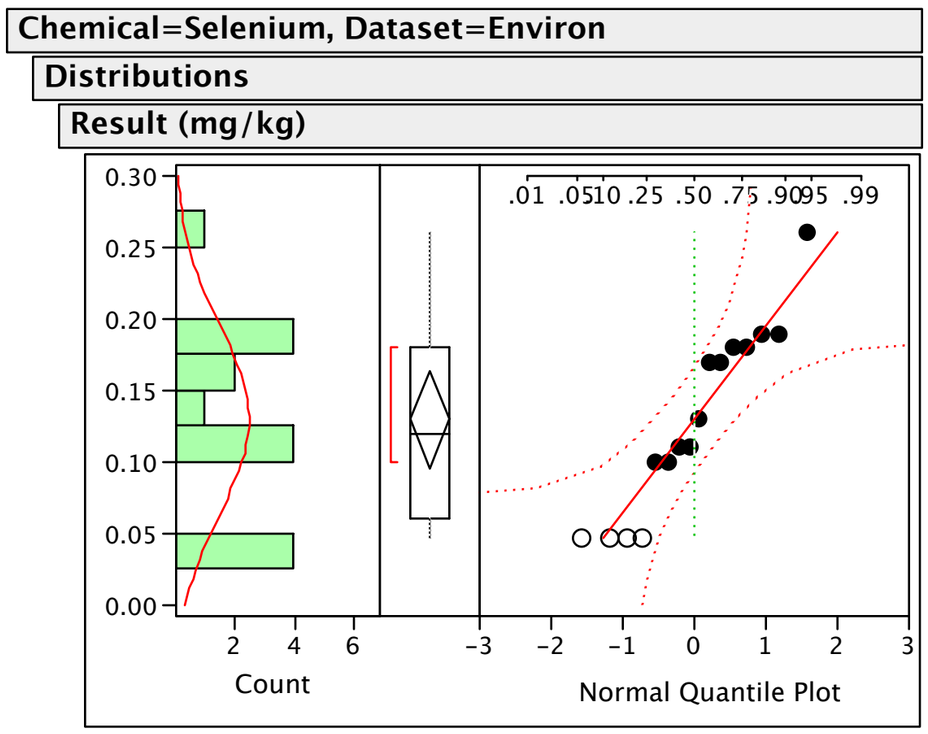
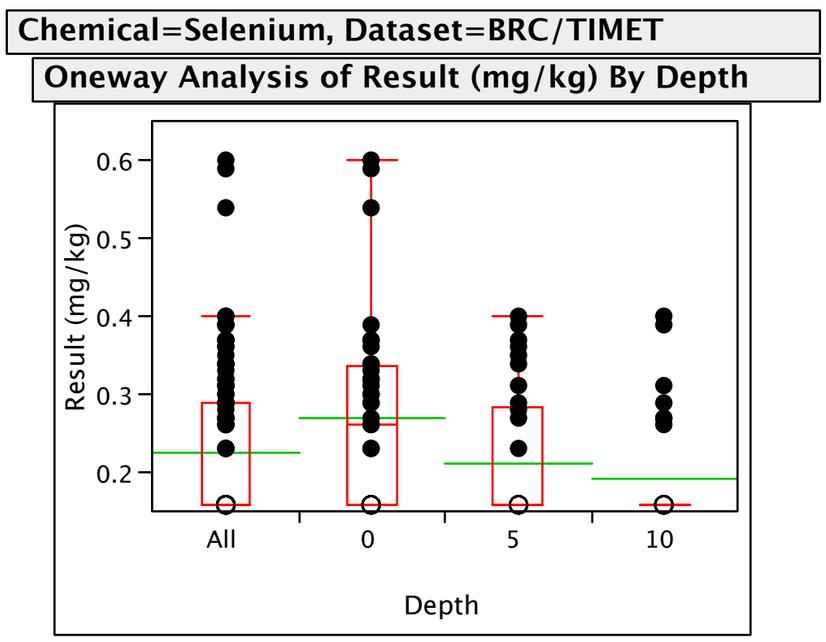


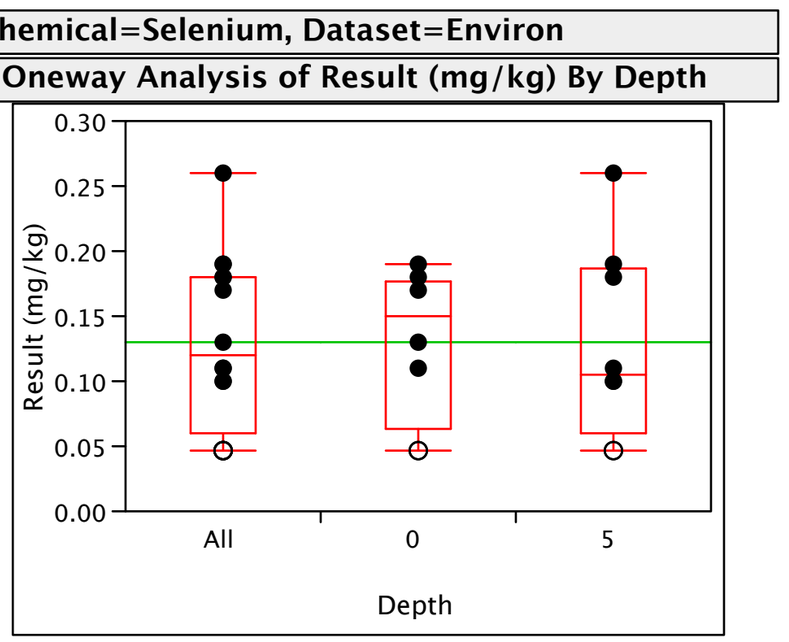
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









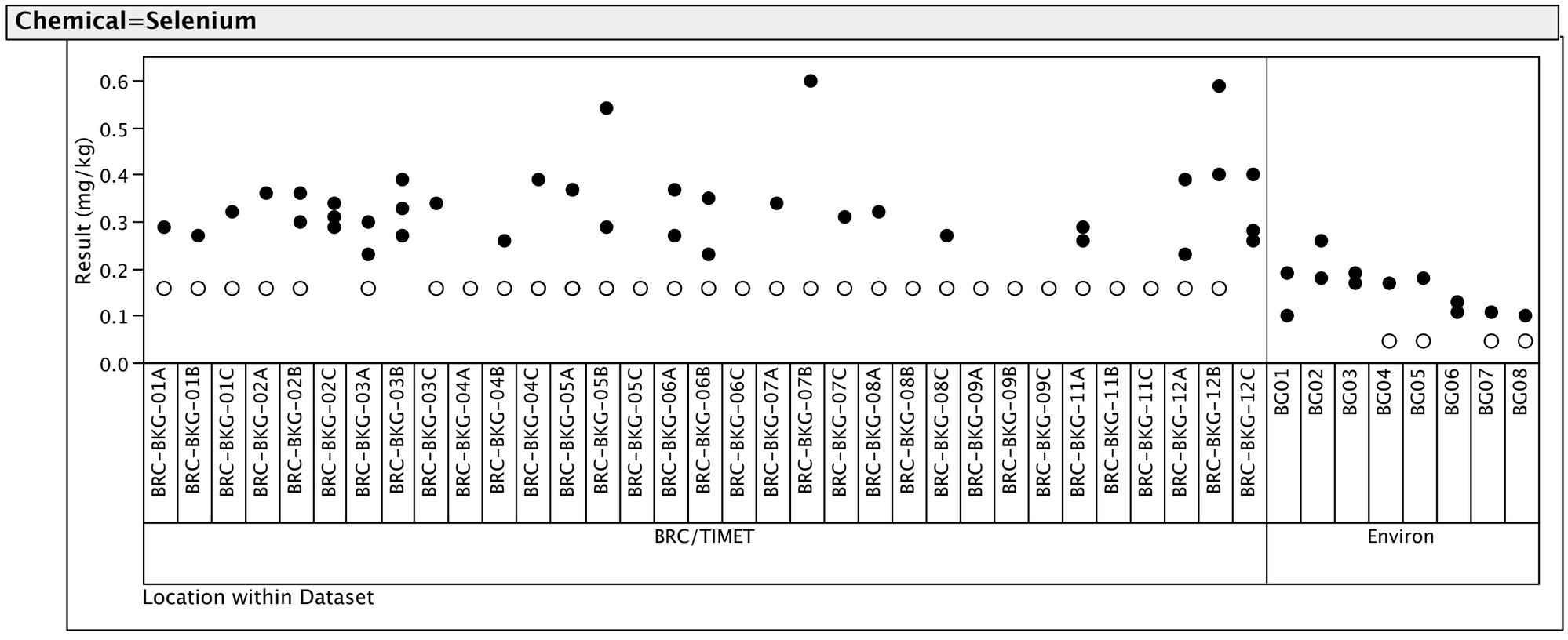
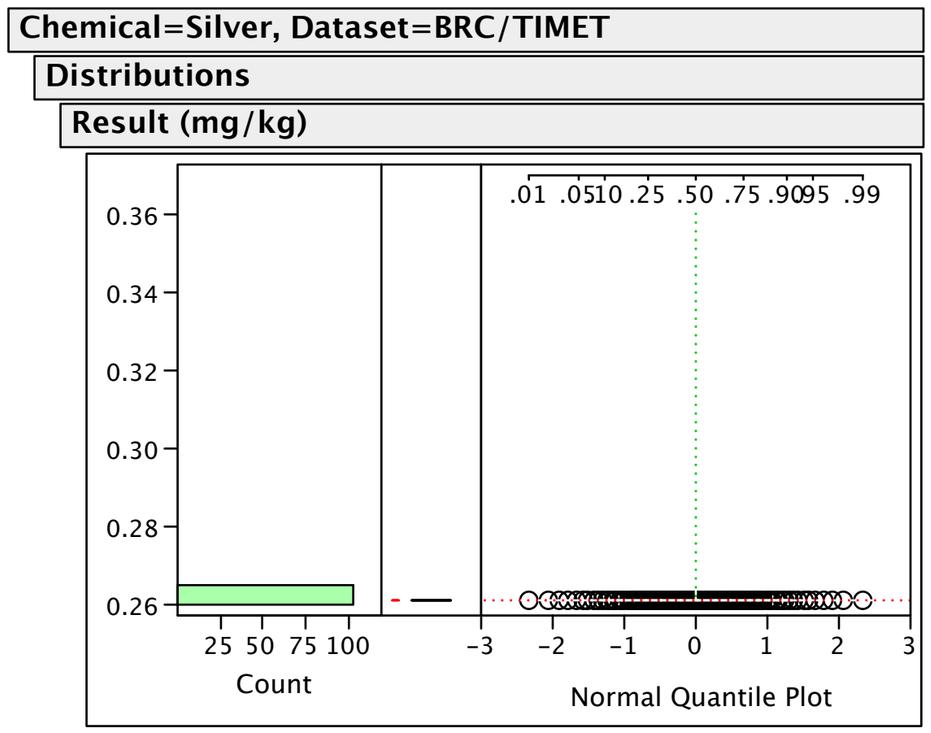
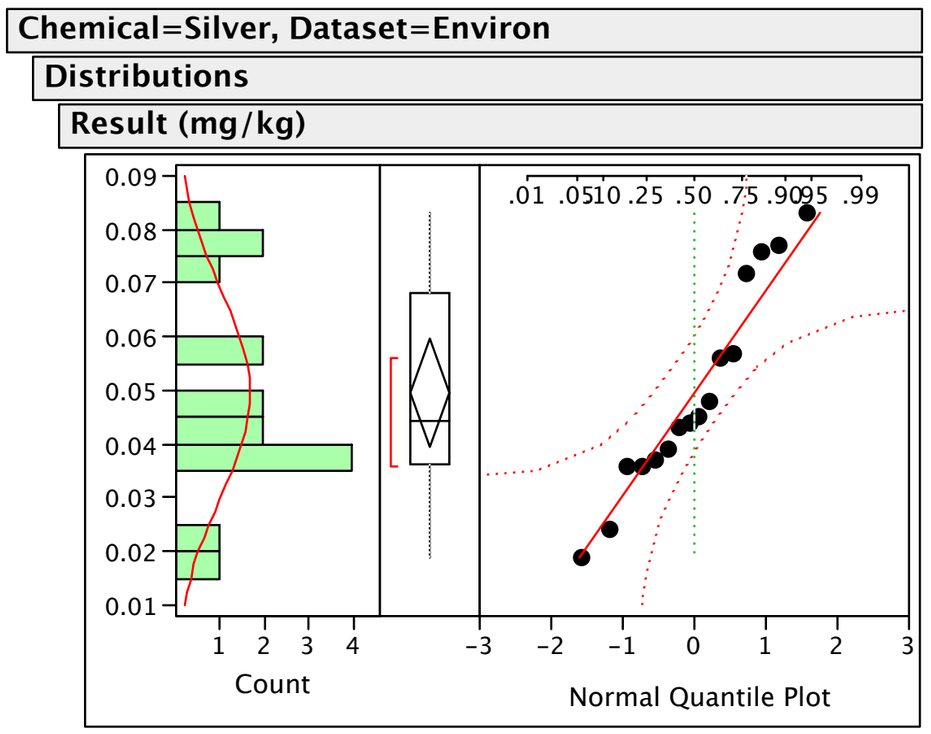
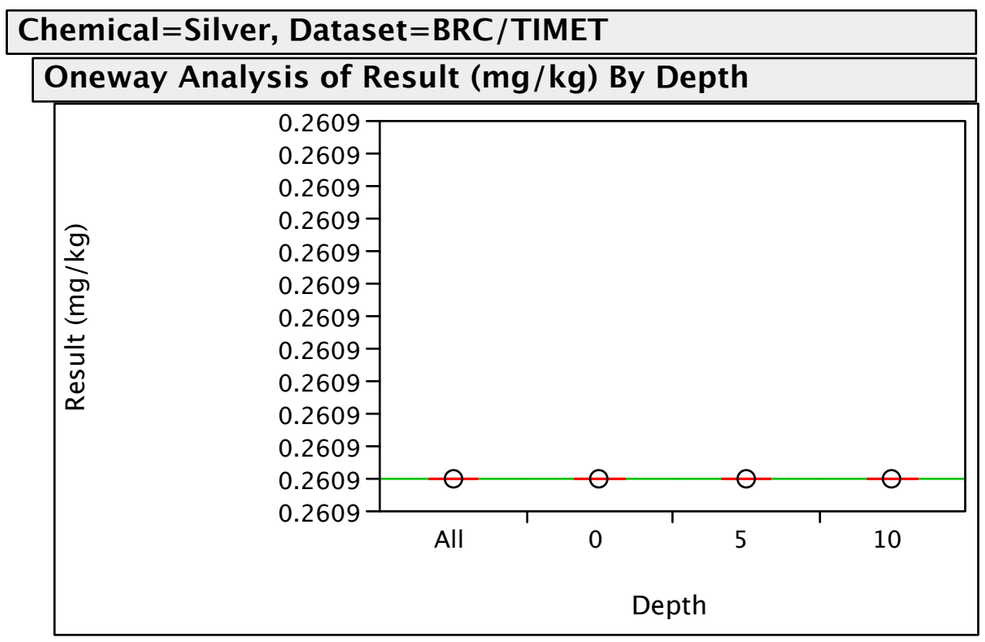


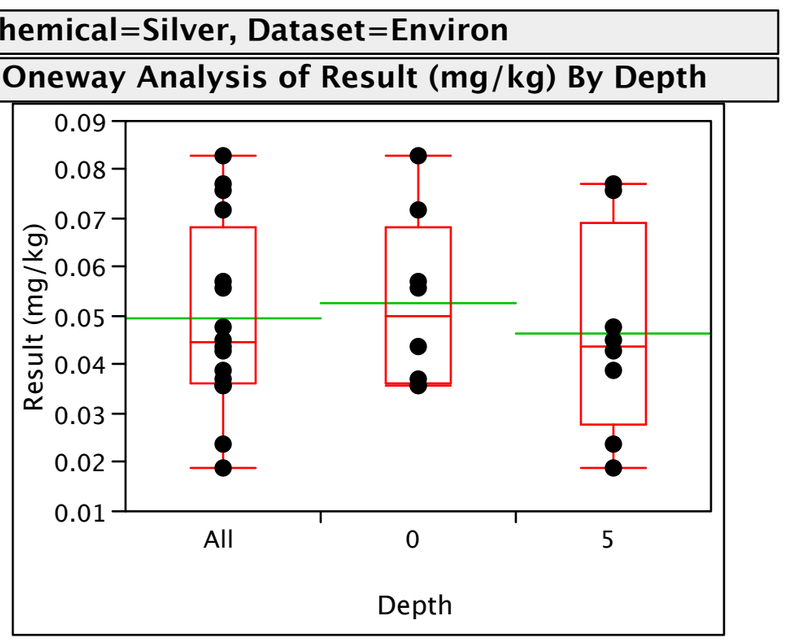
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









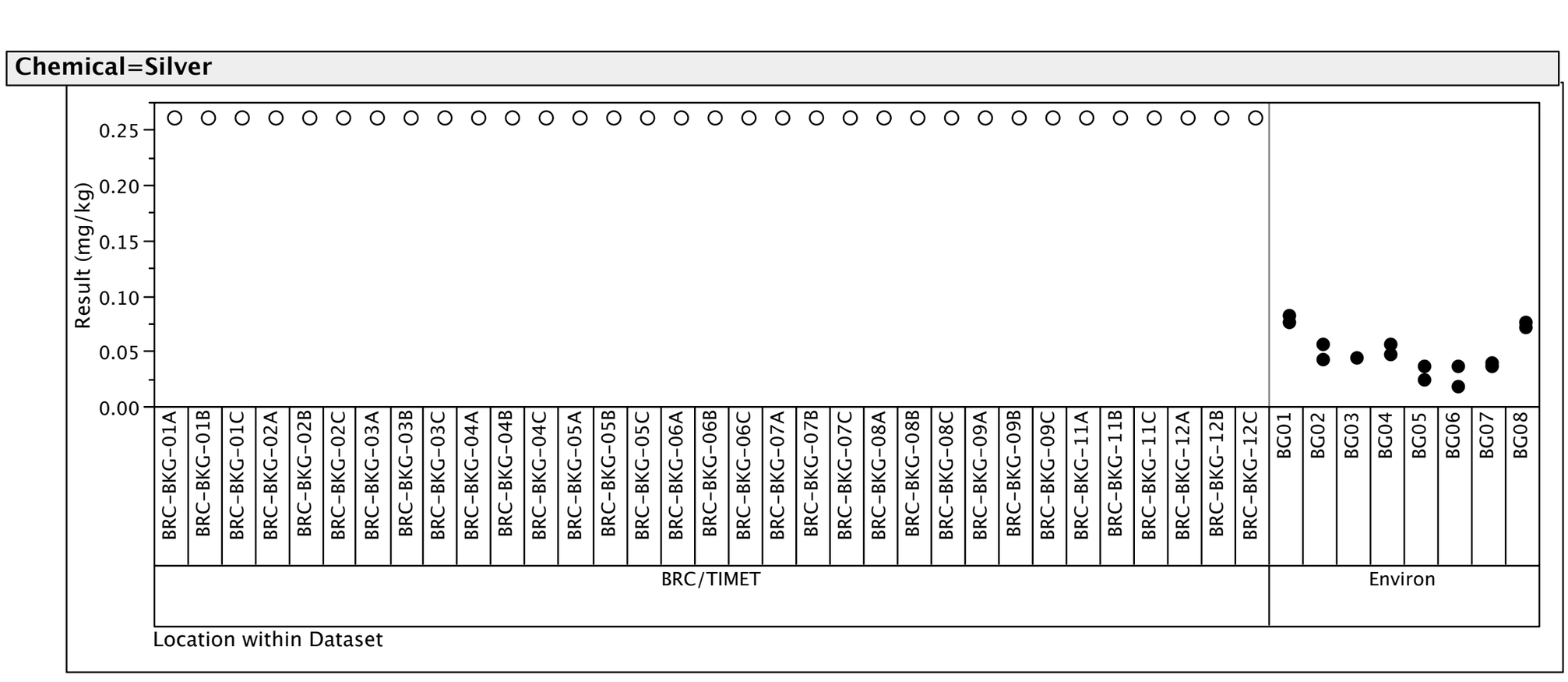
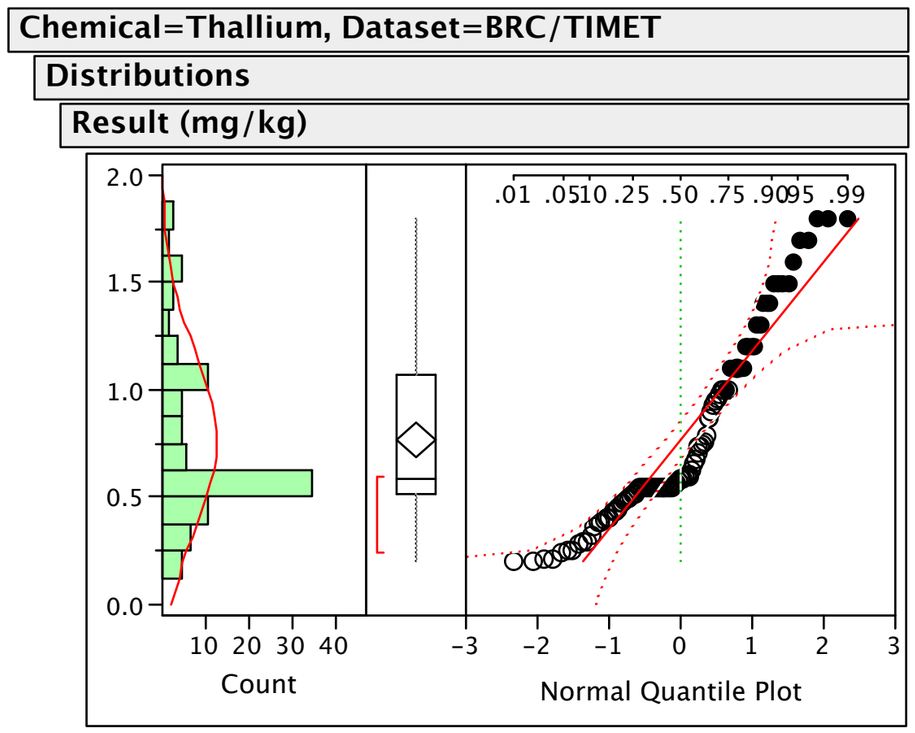
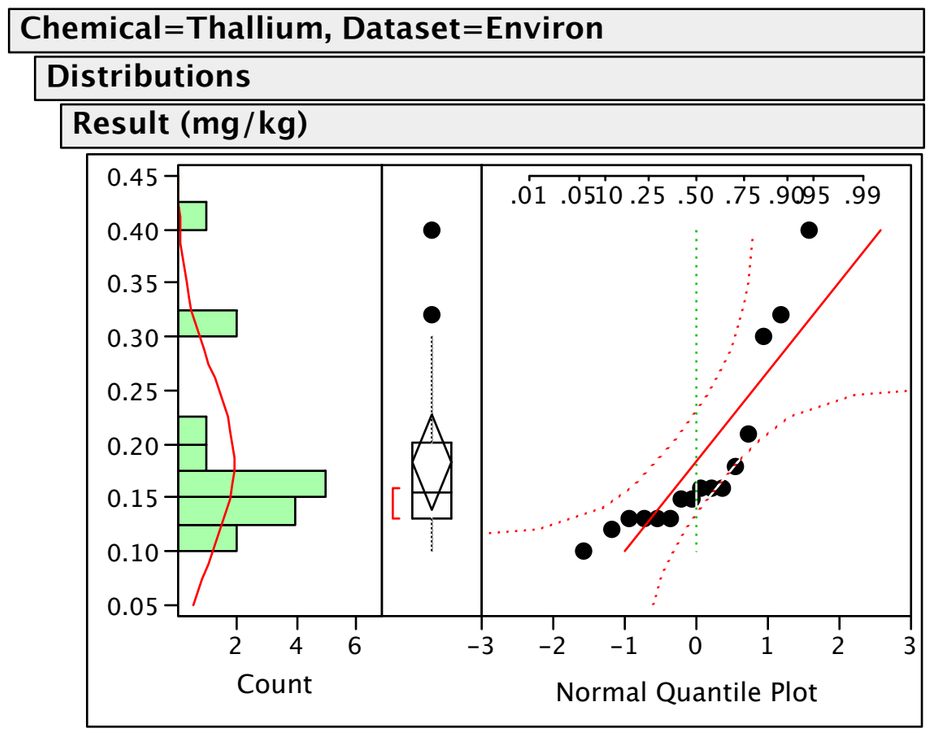
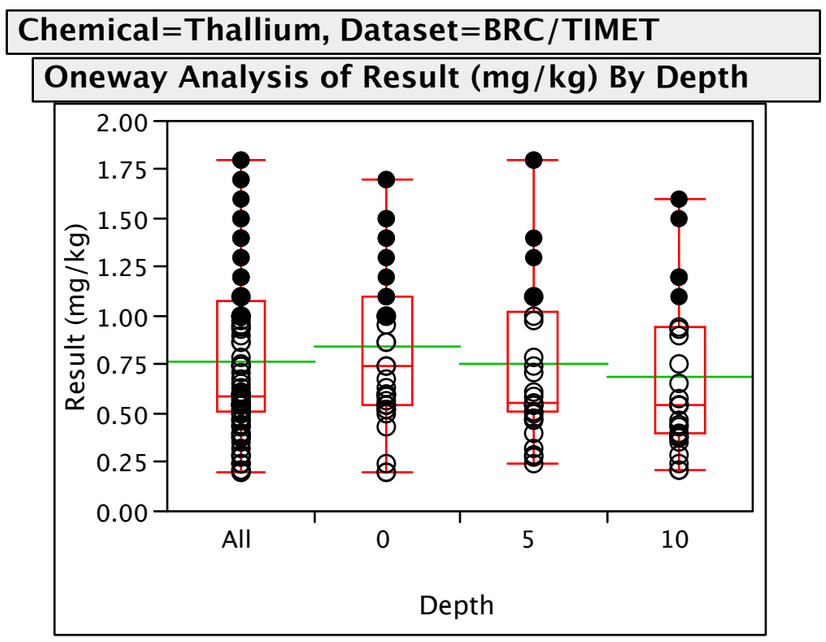


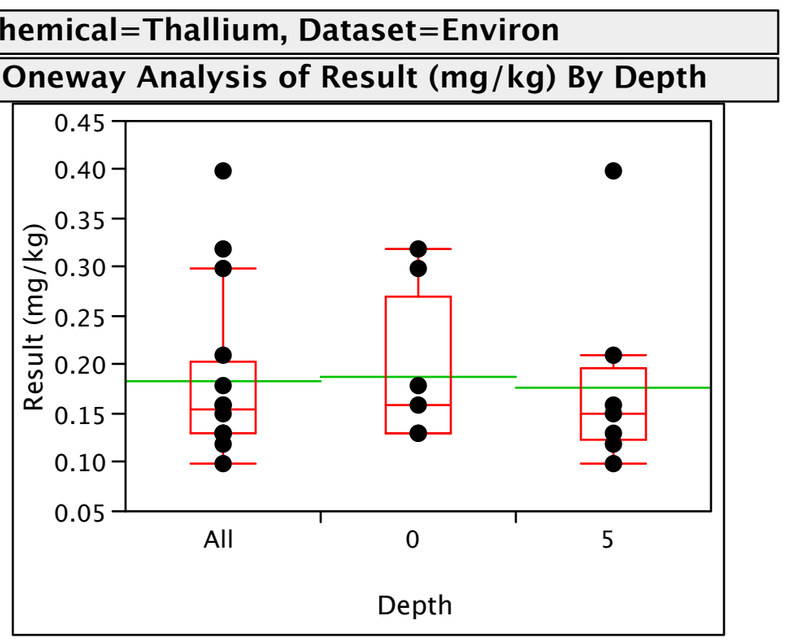
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









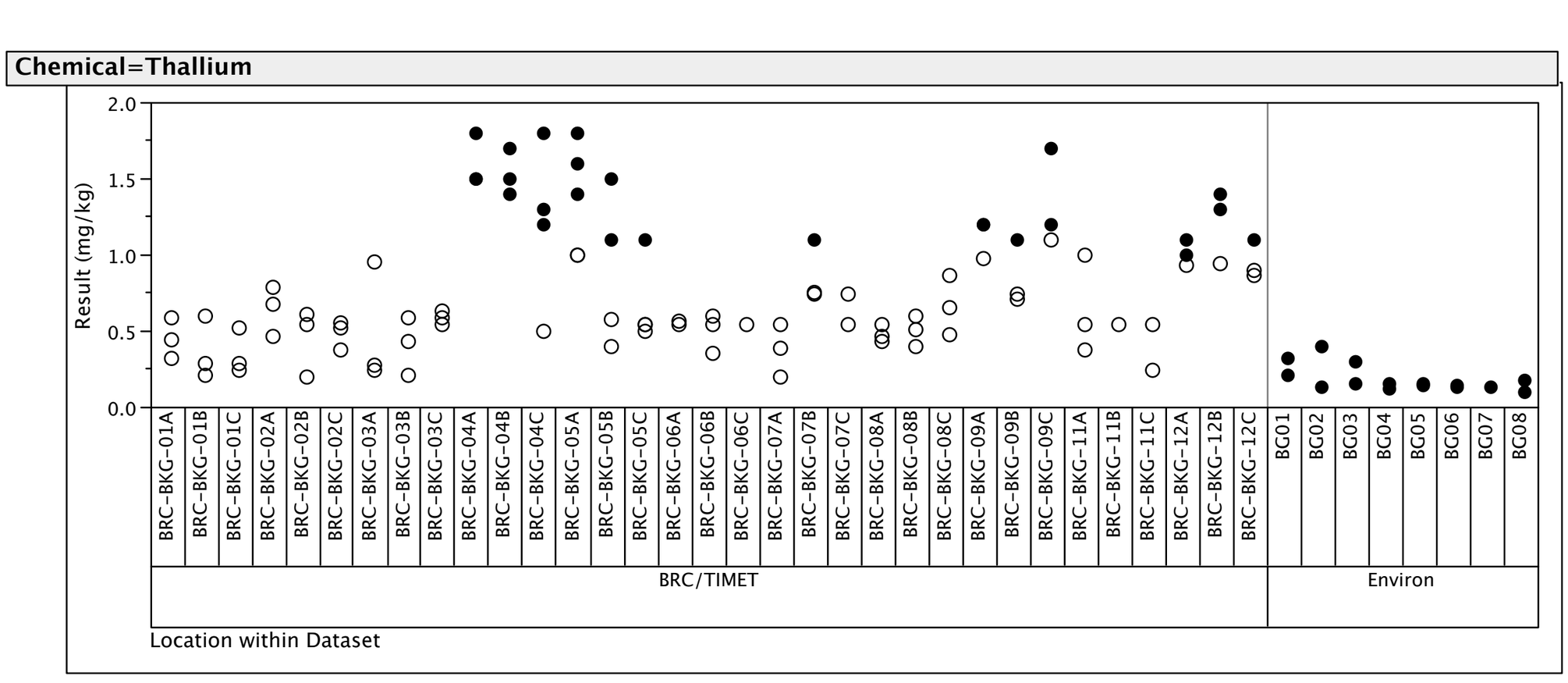
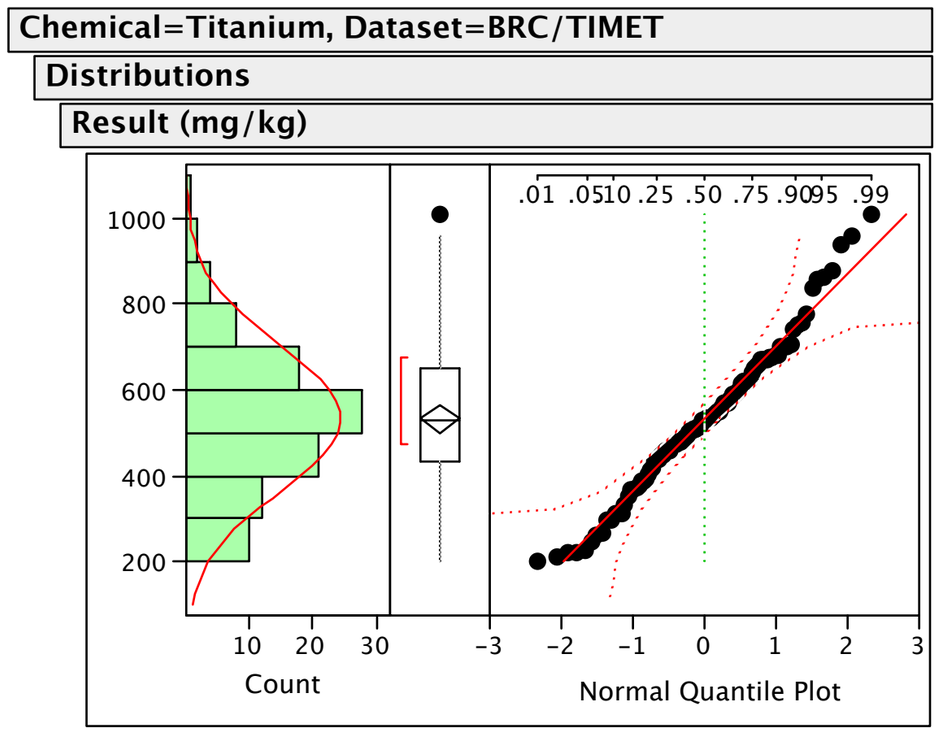
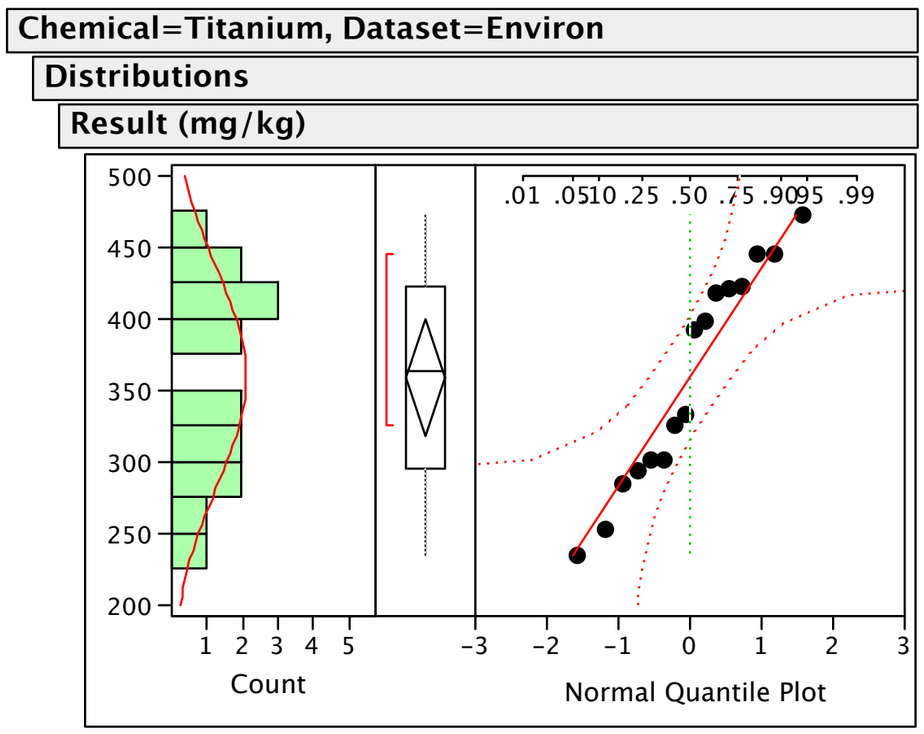
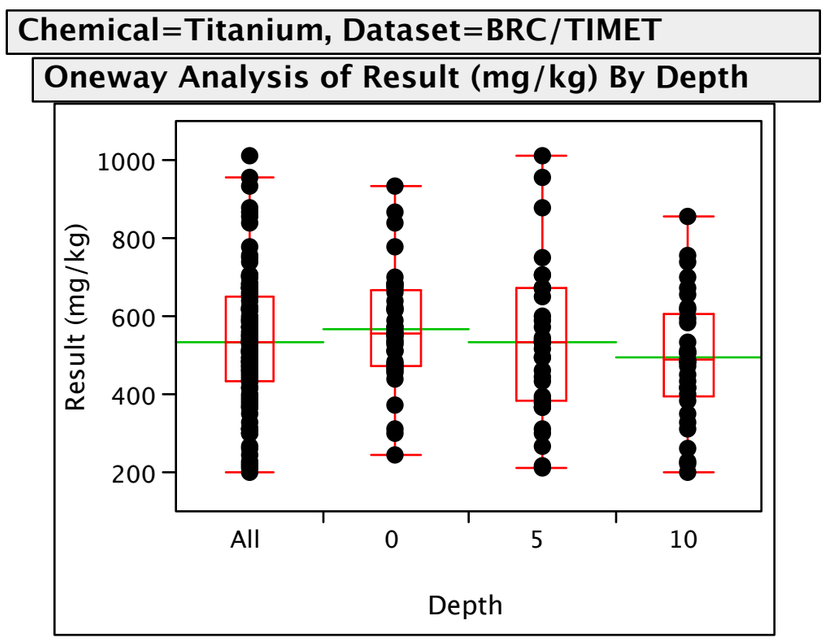


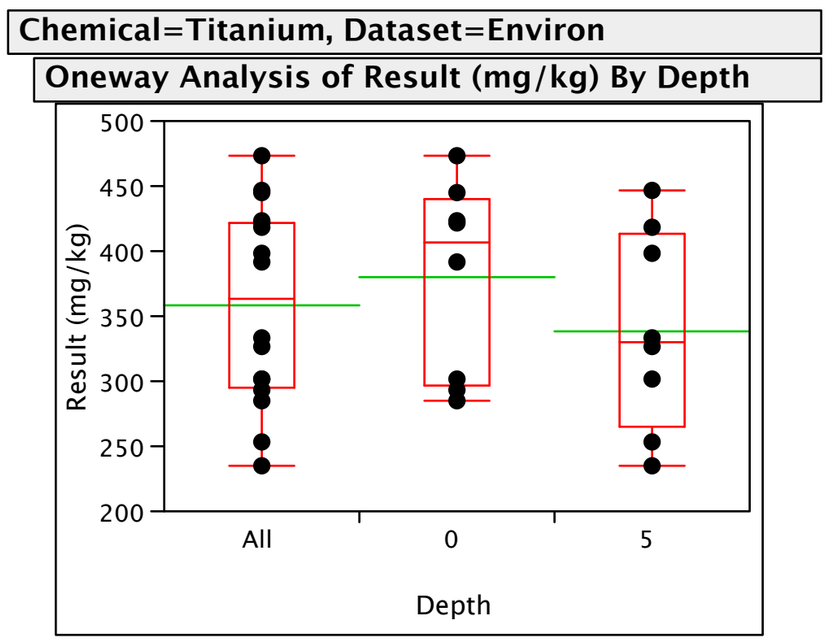
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









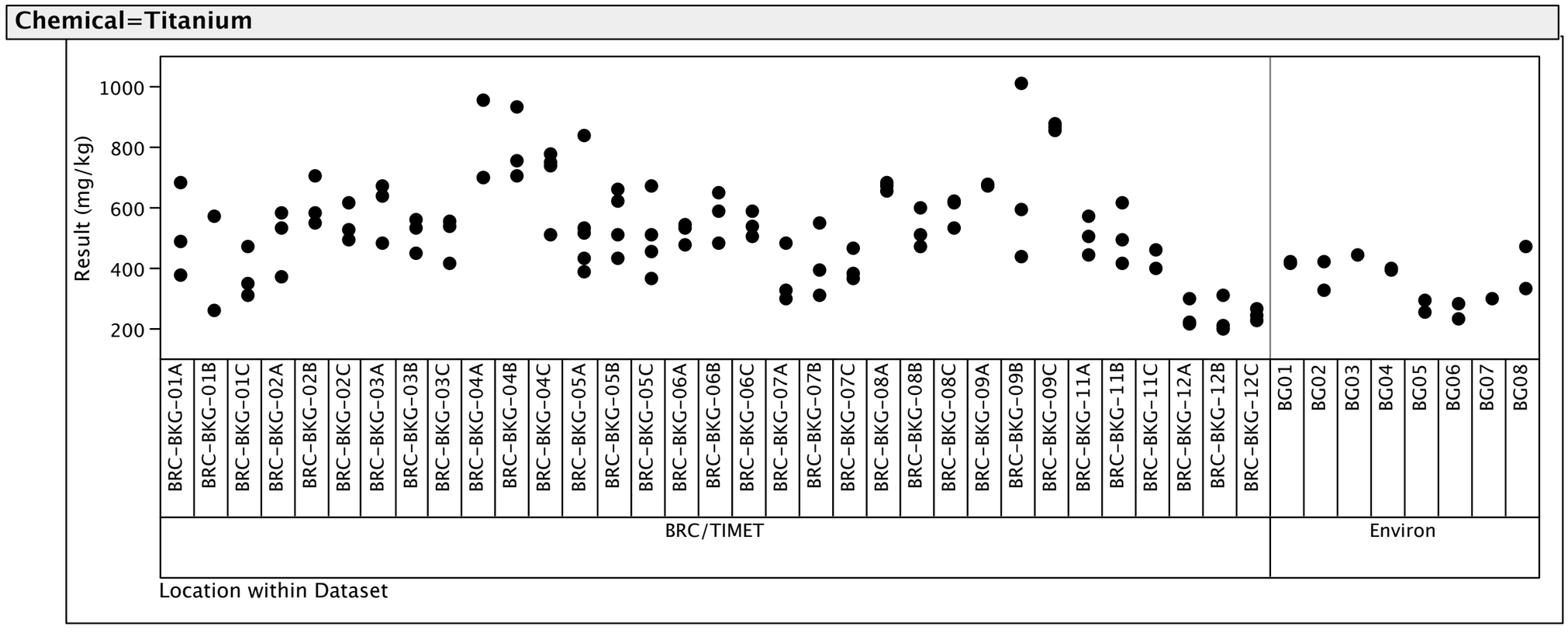
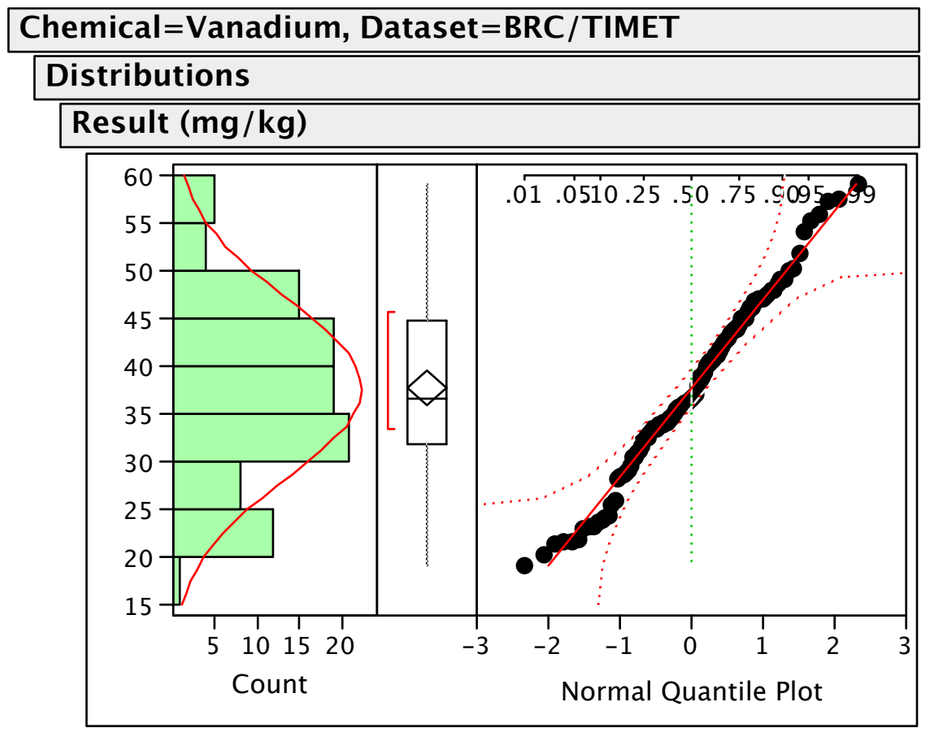
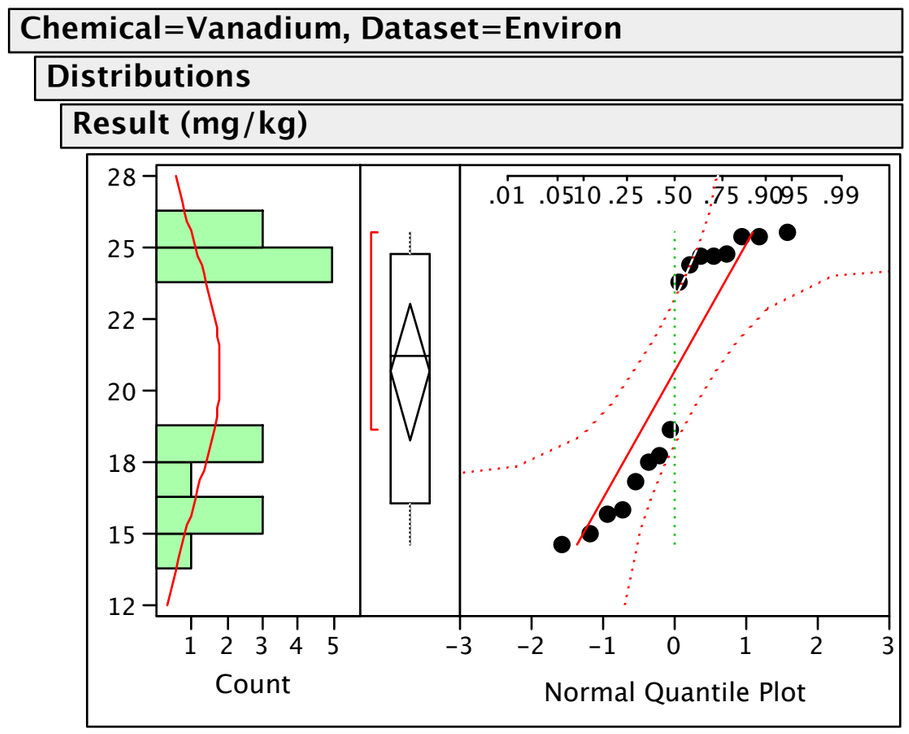
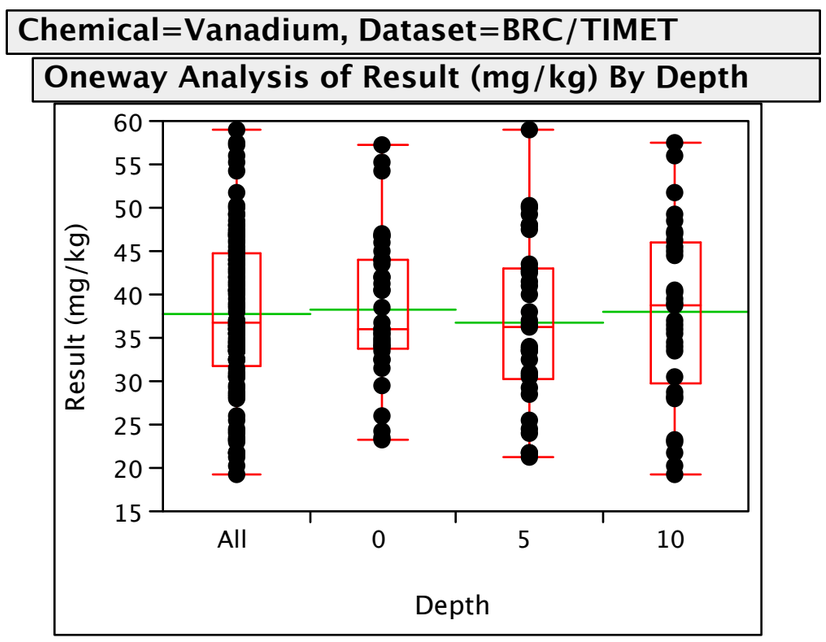


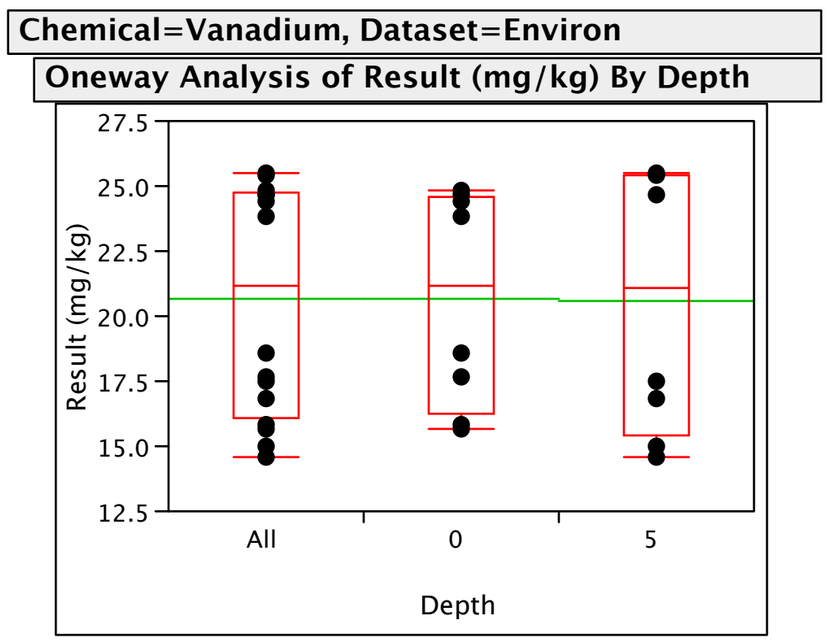
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









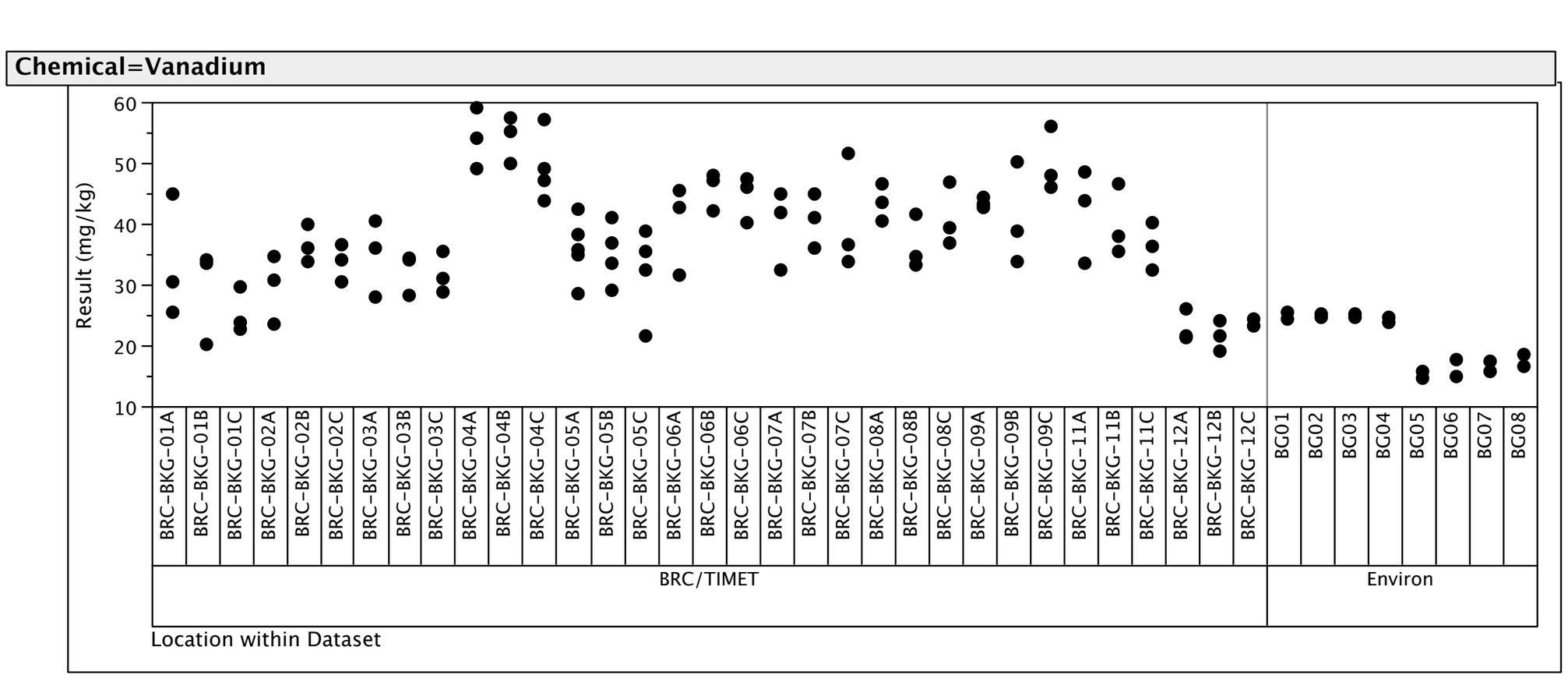
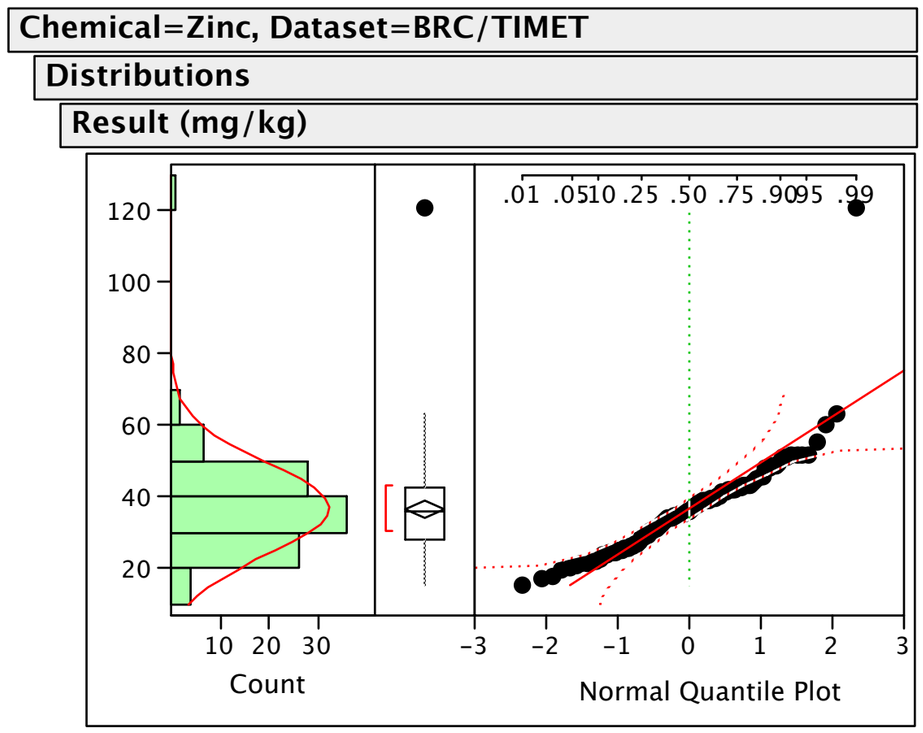
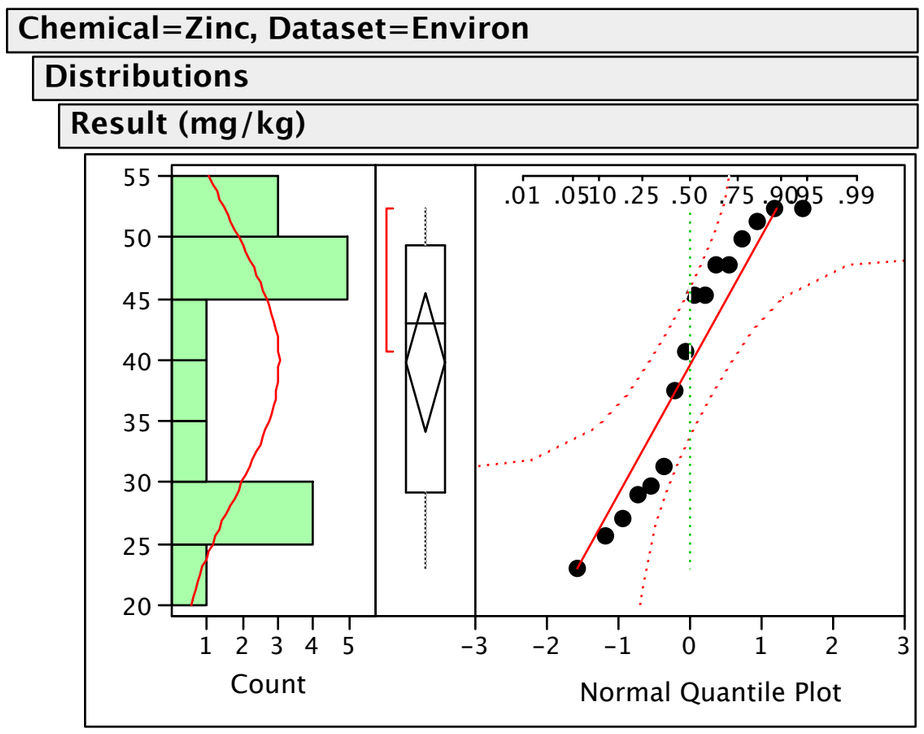
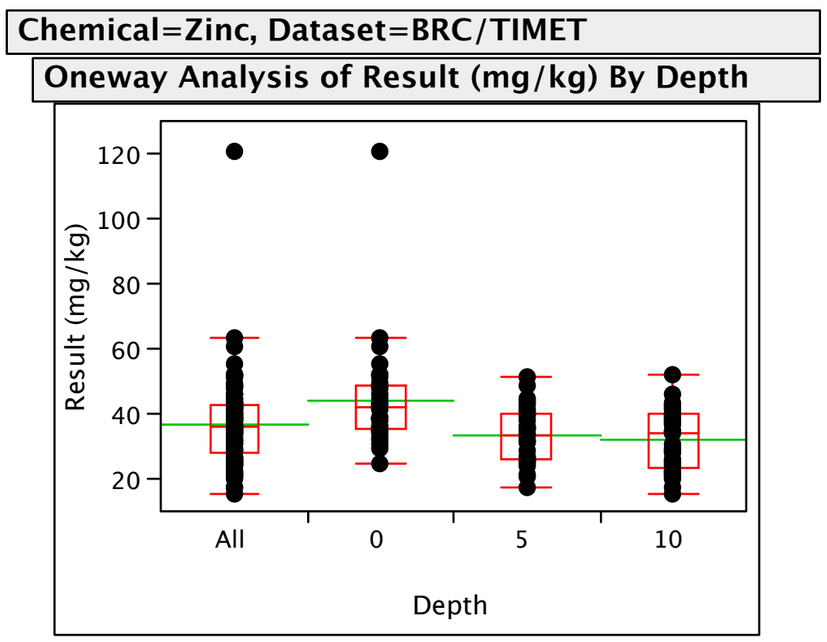


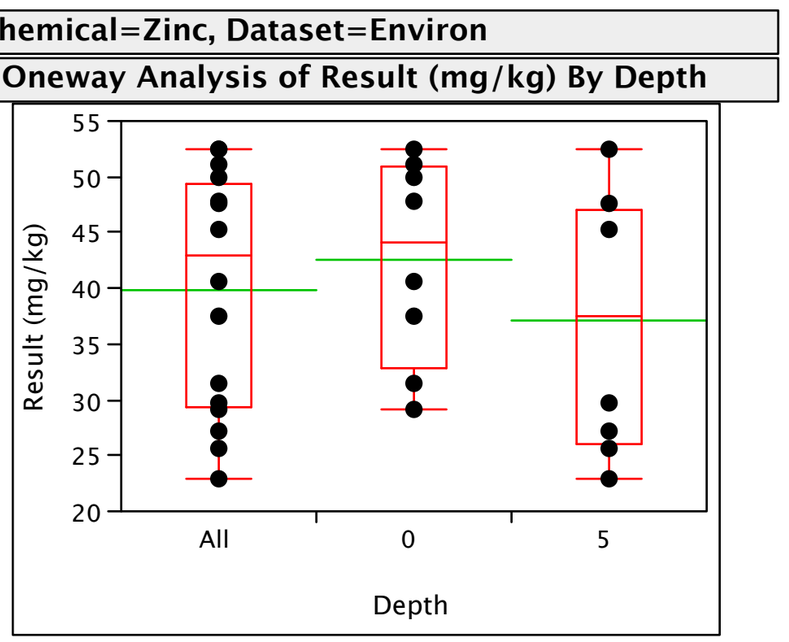
FIGURE F-1 (Continued)

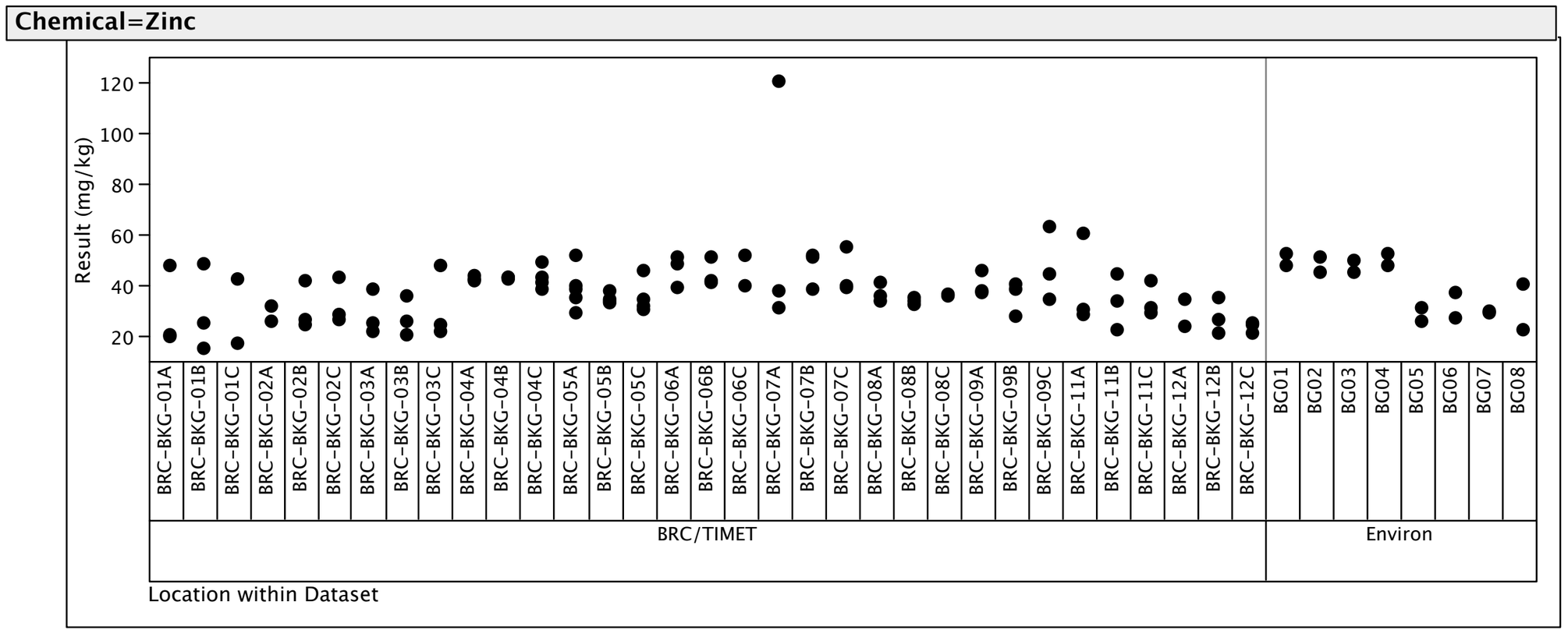
COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL





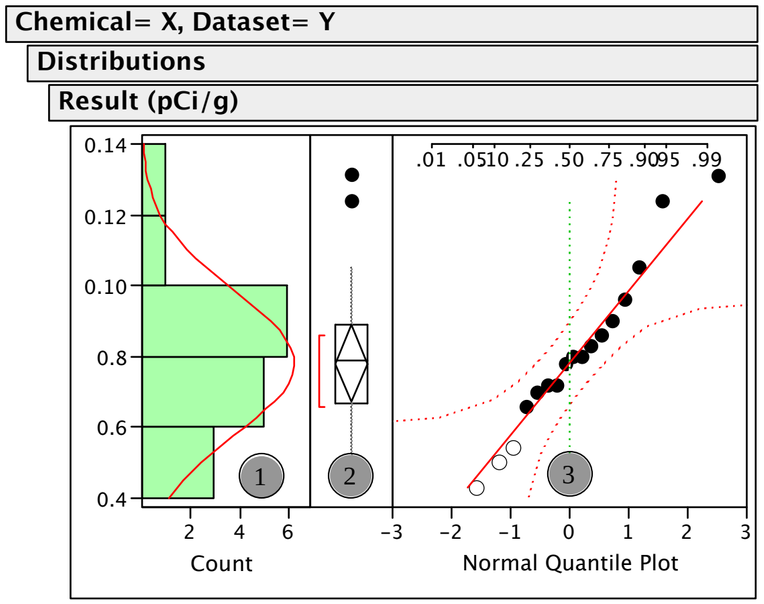


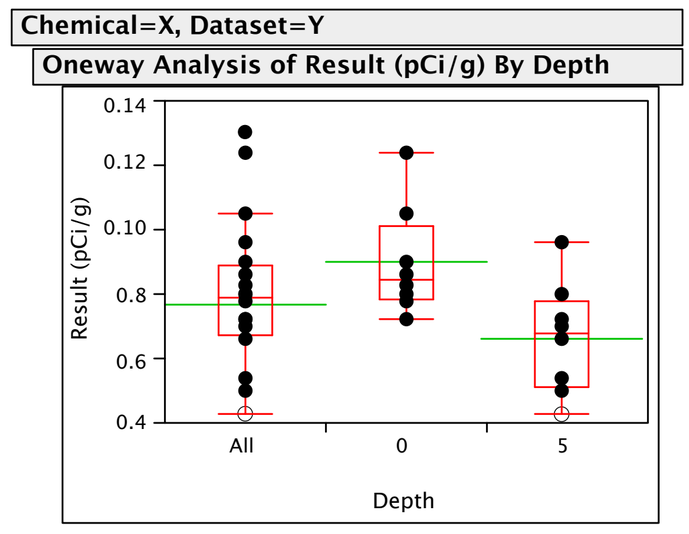




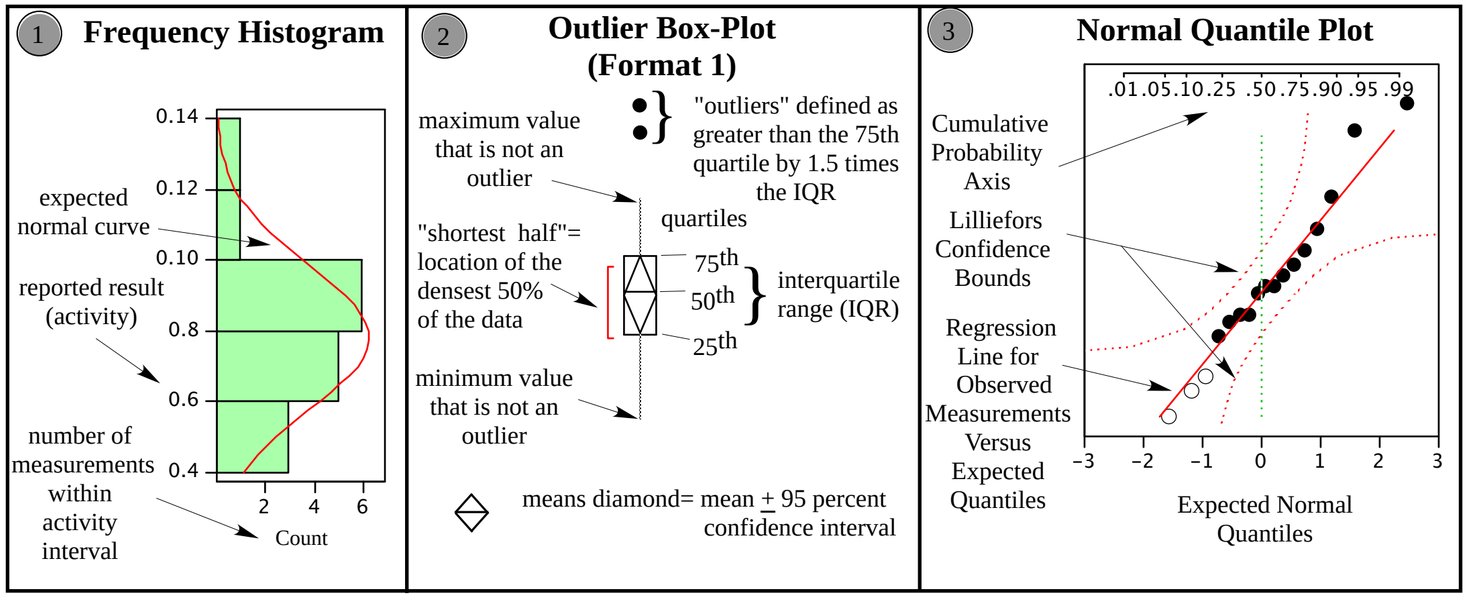
KEYS FOR INTERPRETING GRAPHICS IN FIGURE F-2

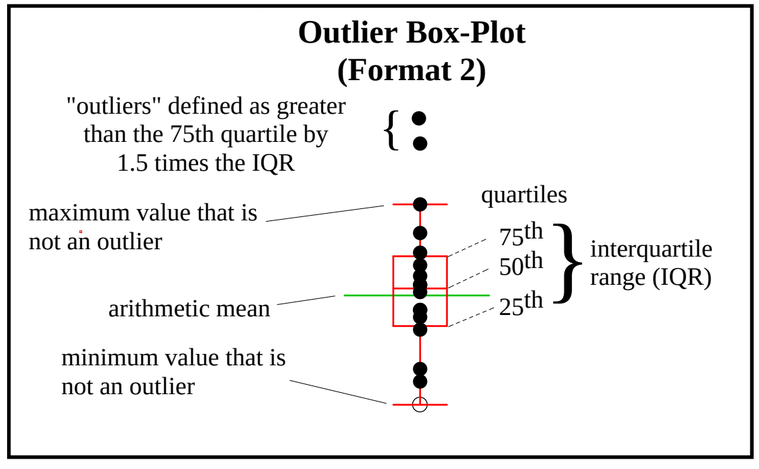
Example Figures From Appendix





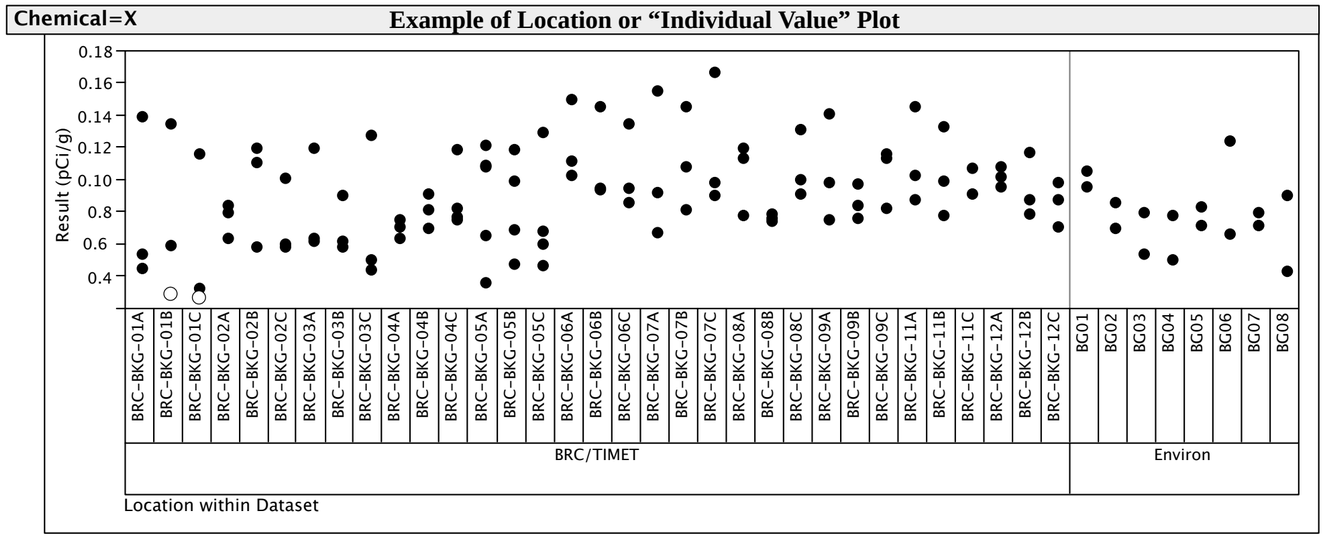
Keys to Individual Figure Panels





detected result

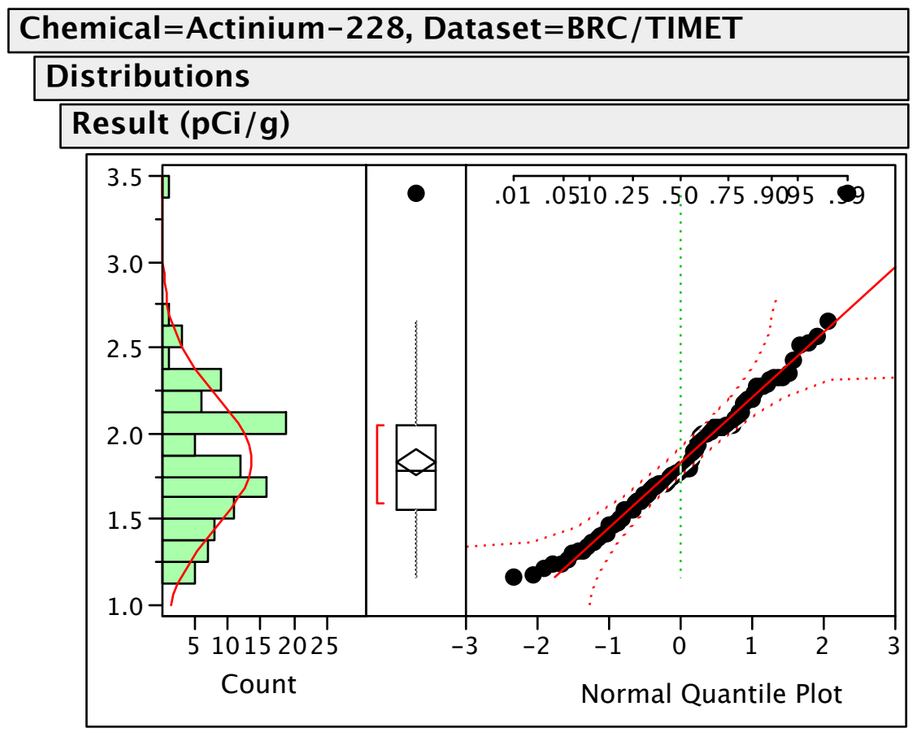
censored result

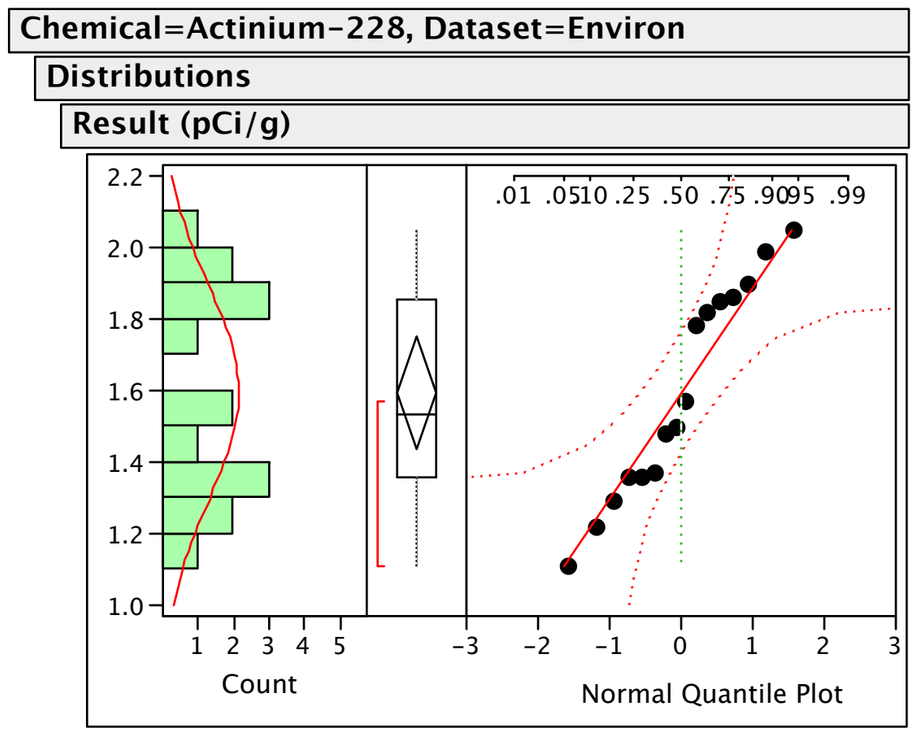


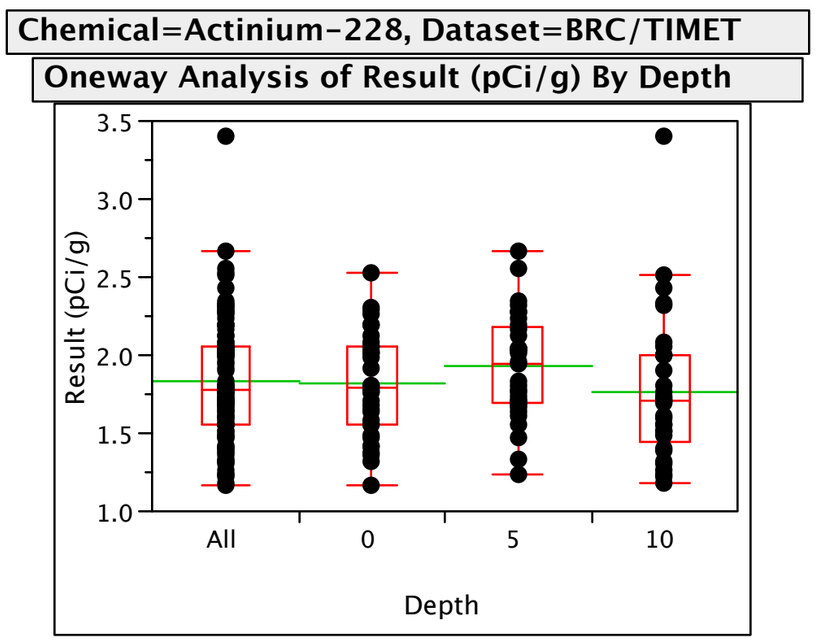
Results are Plottted for Individual Locations and Grouped by Dataset

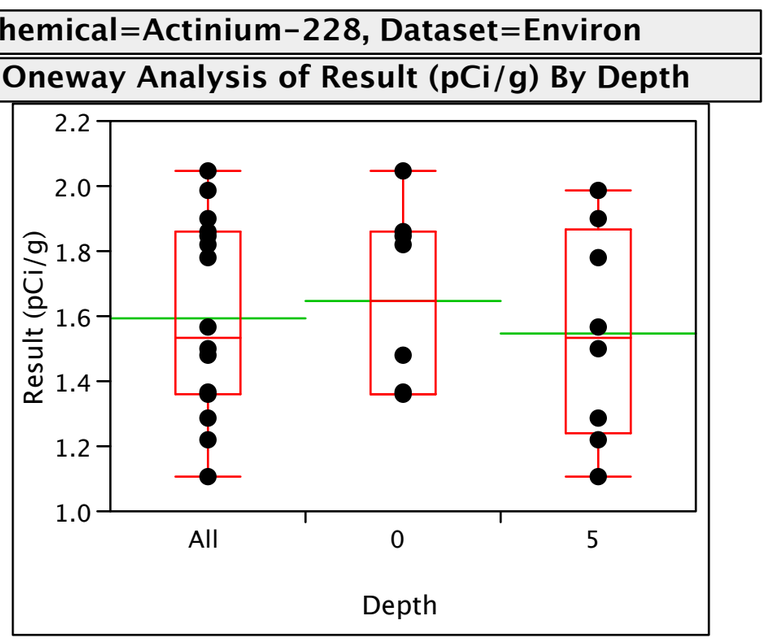
FIGURE F-2

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









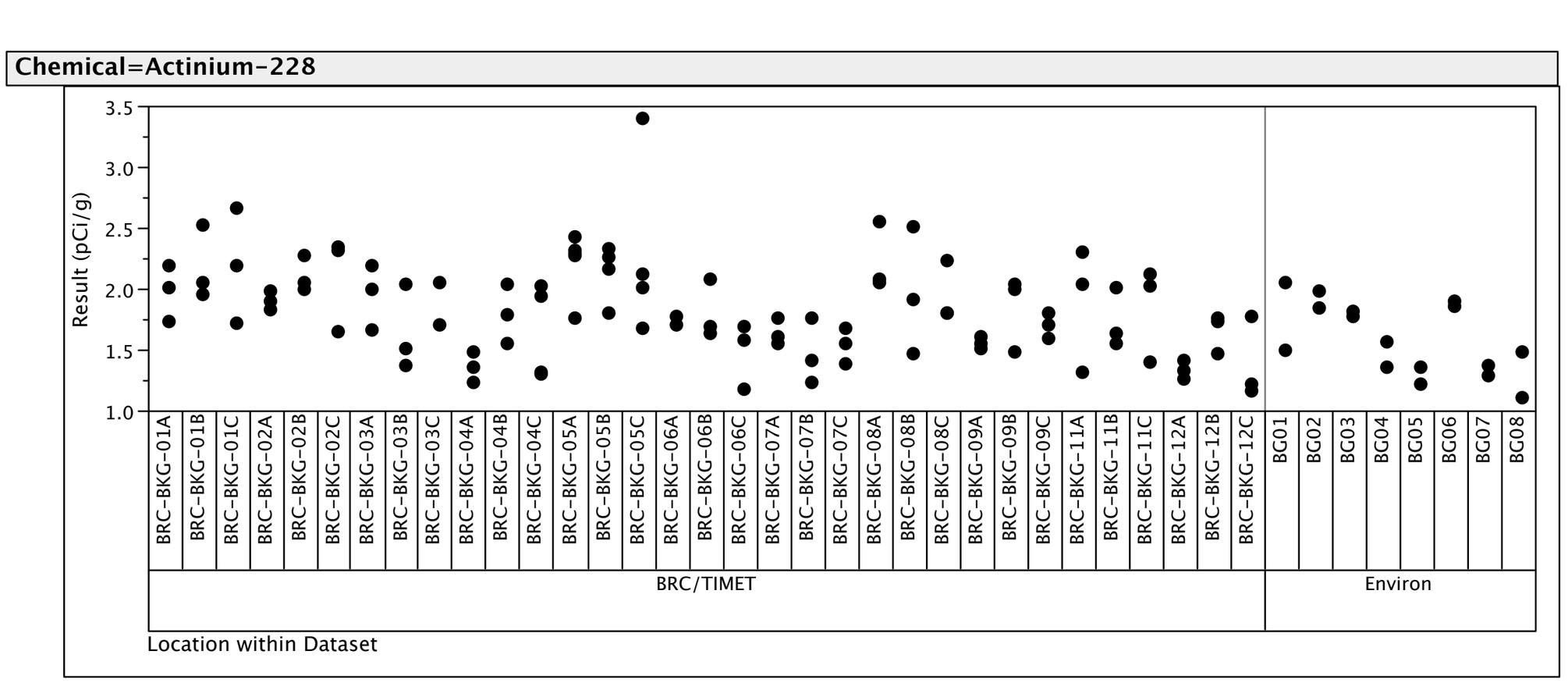
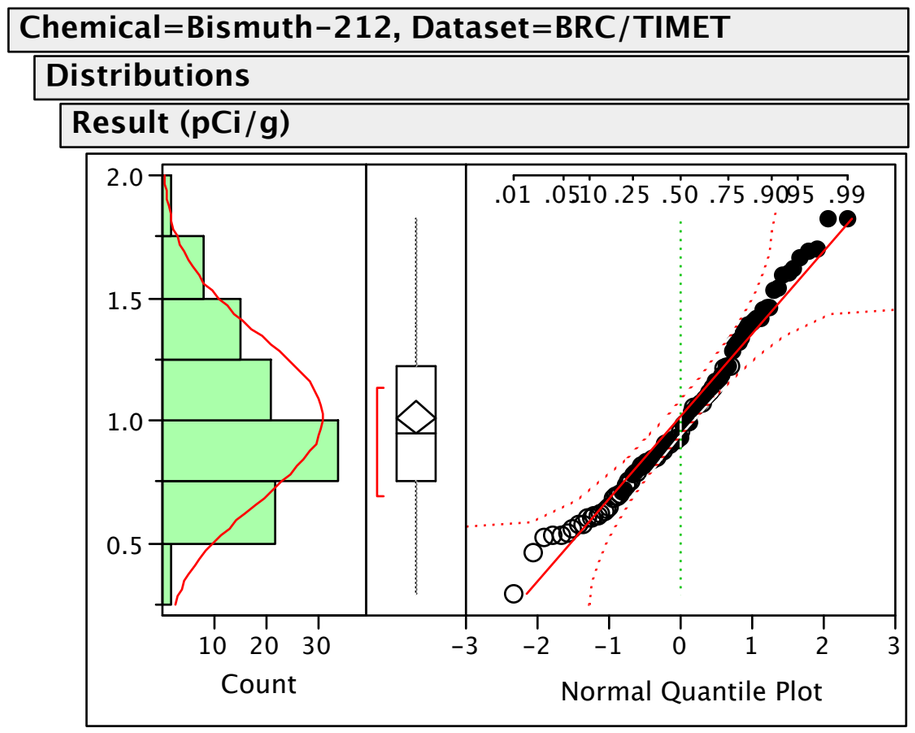
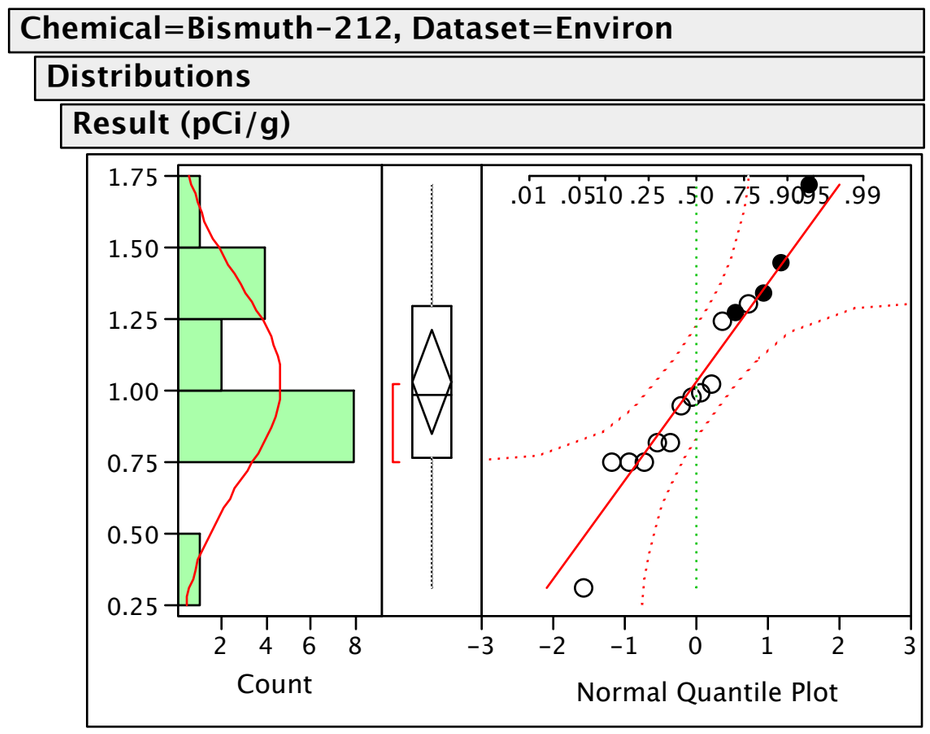
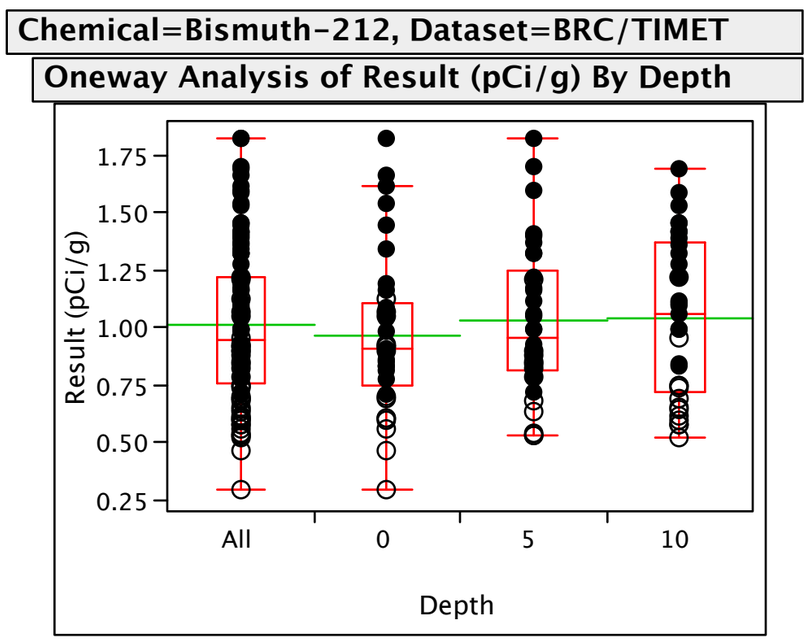


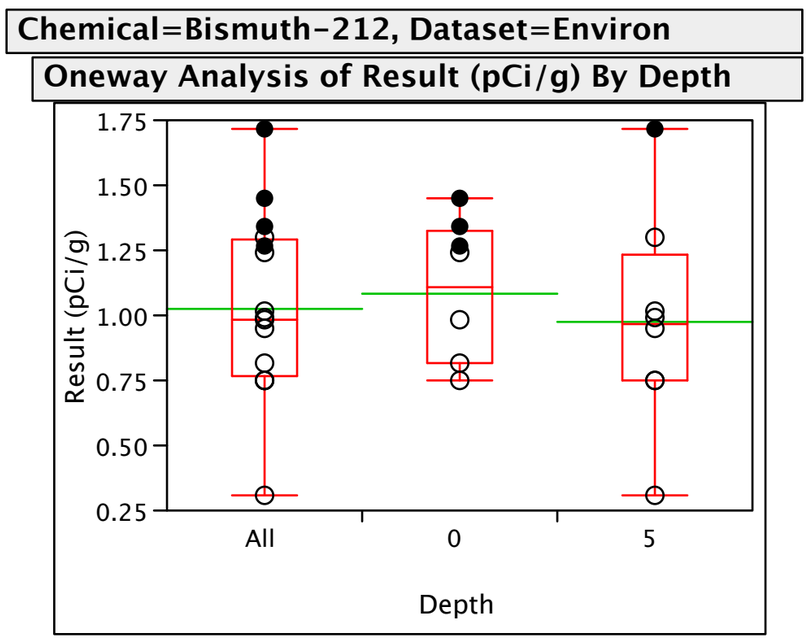
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









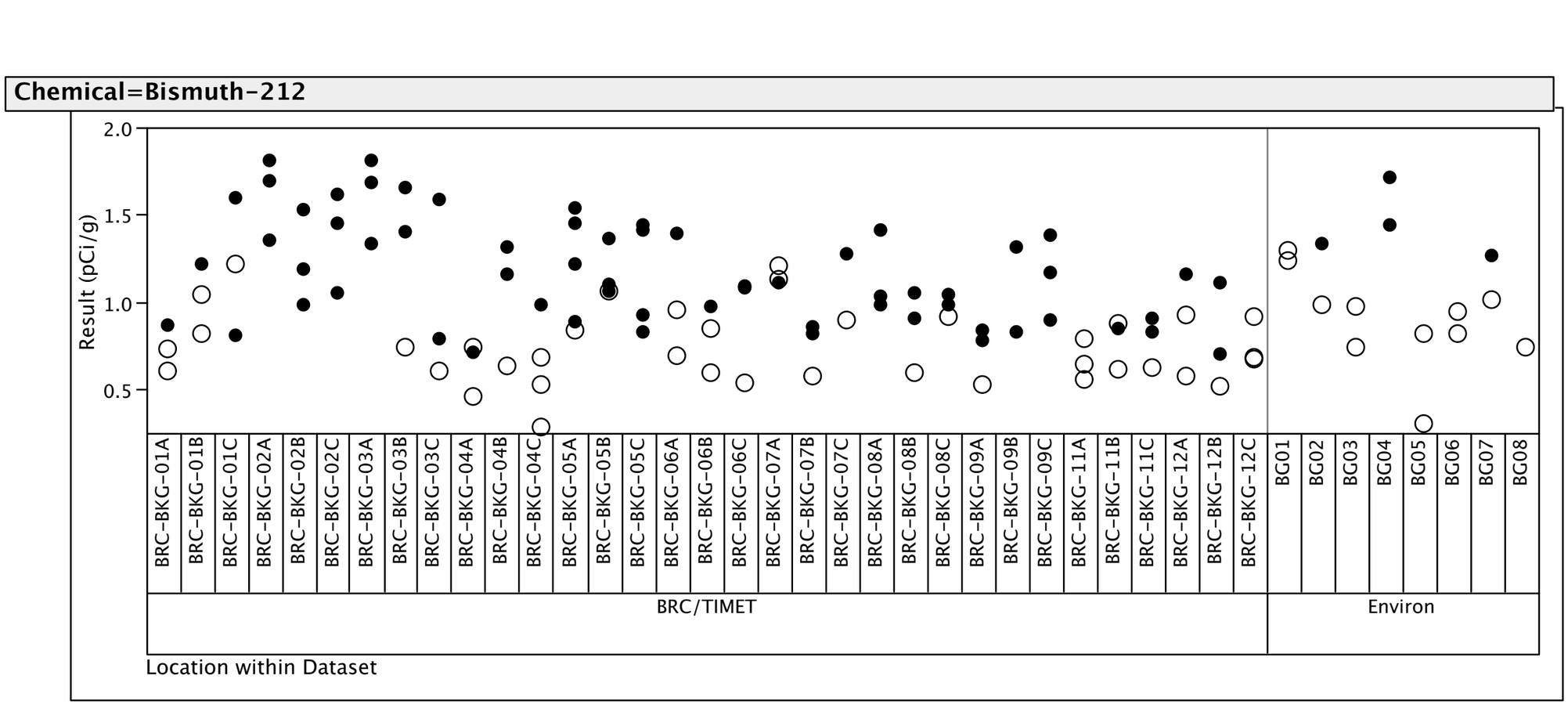
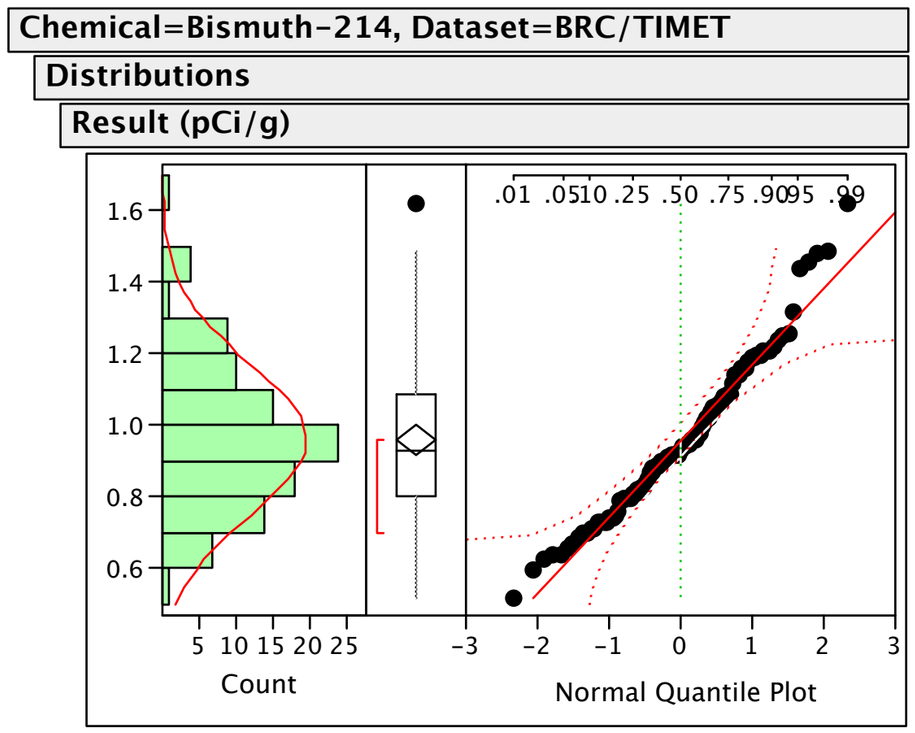
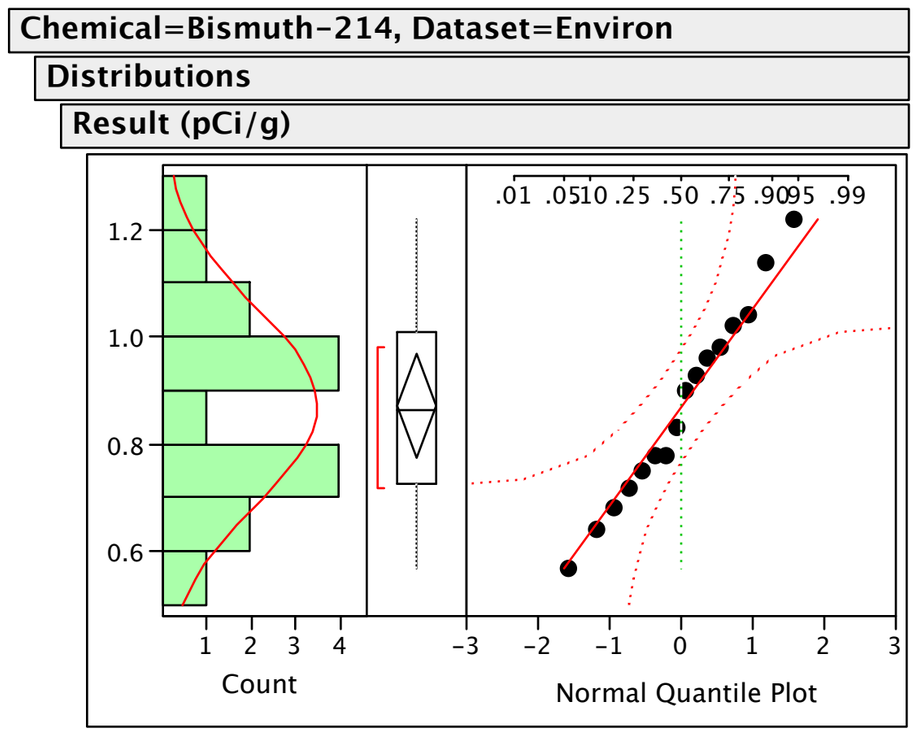
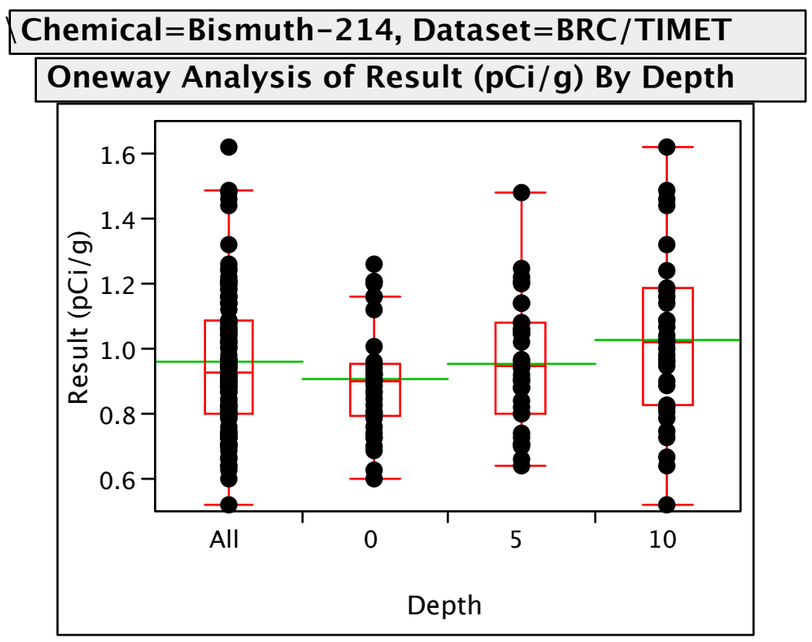


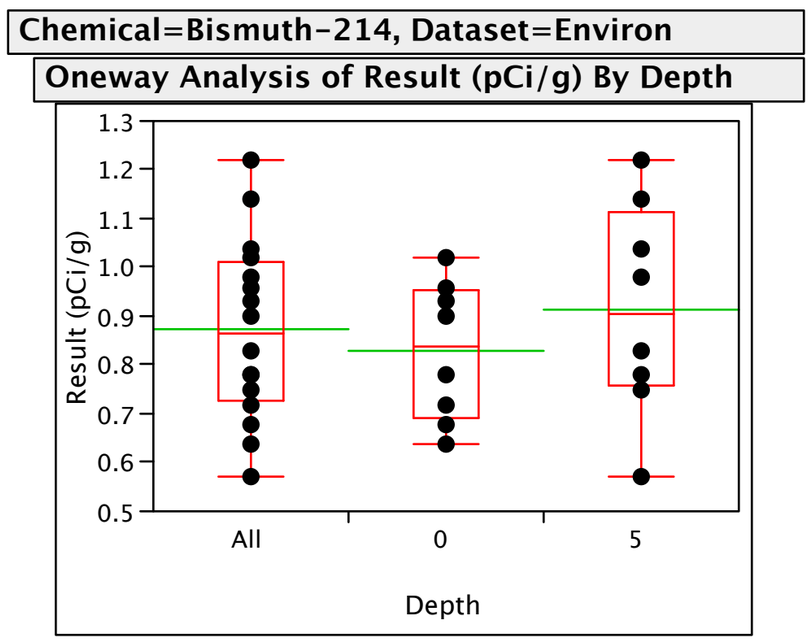
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









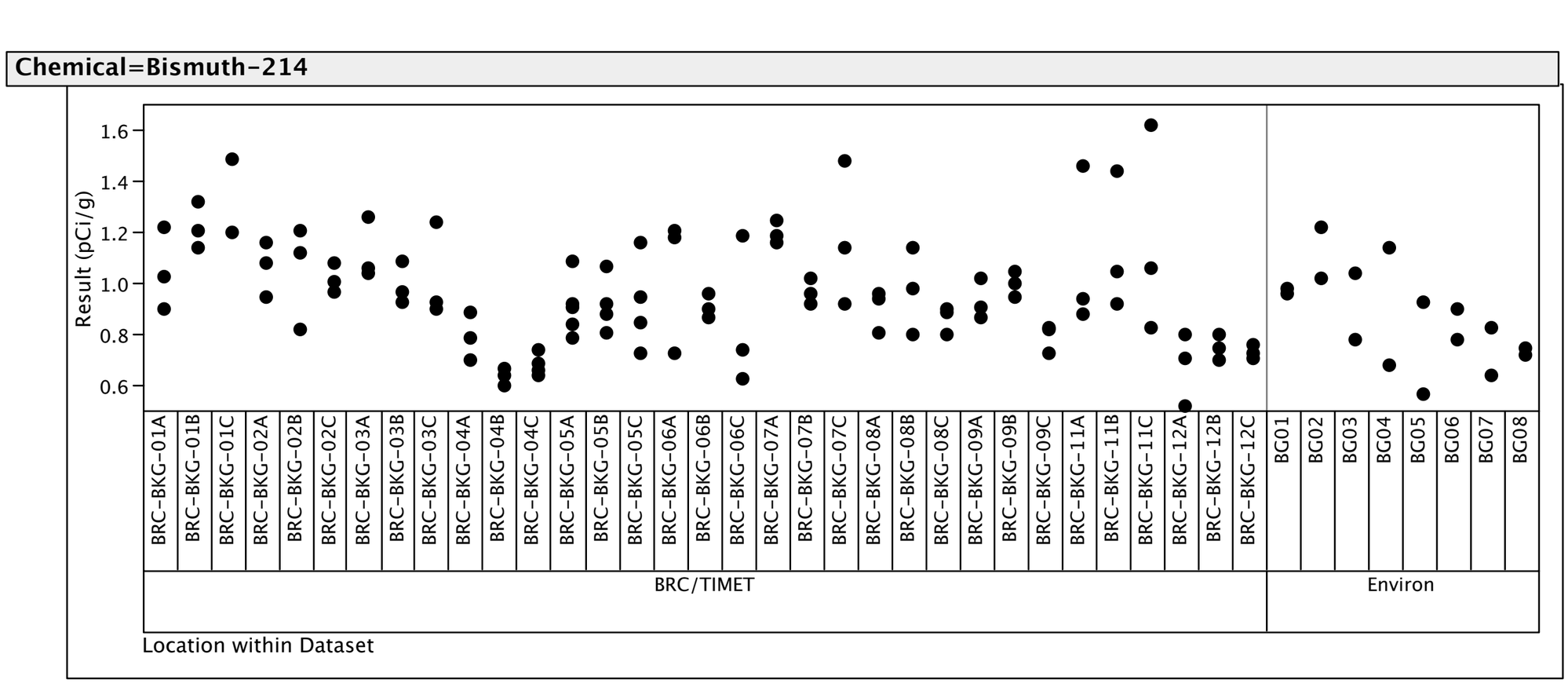
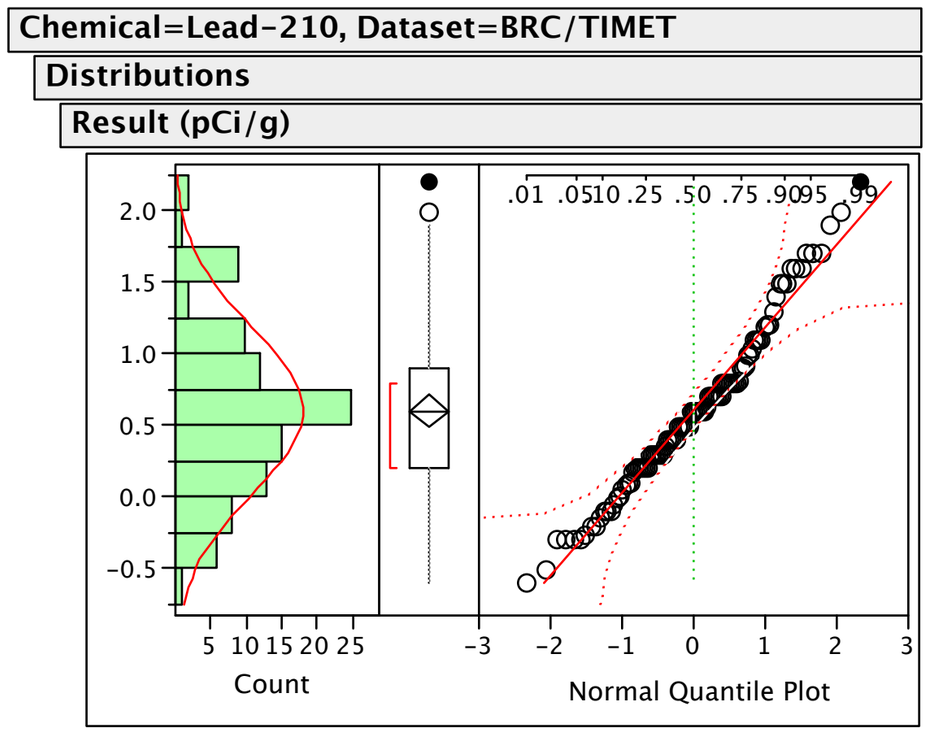
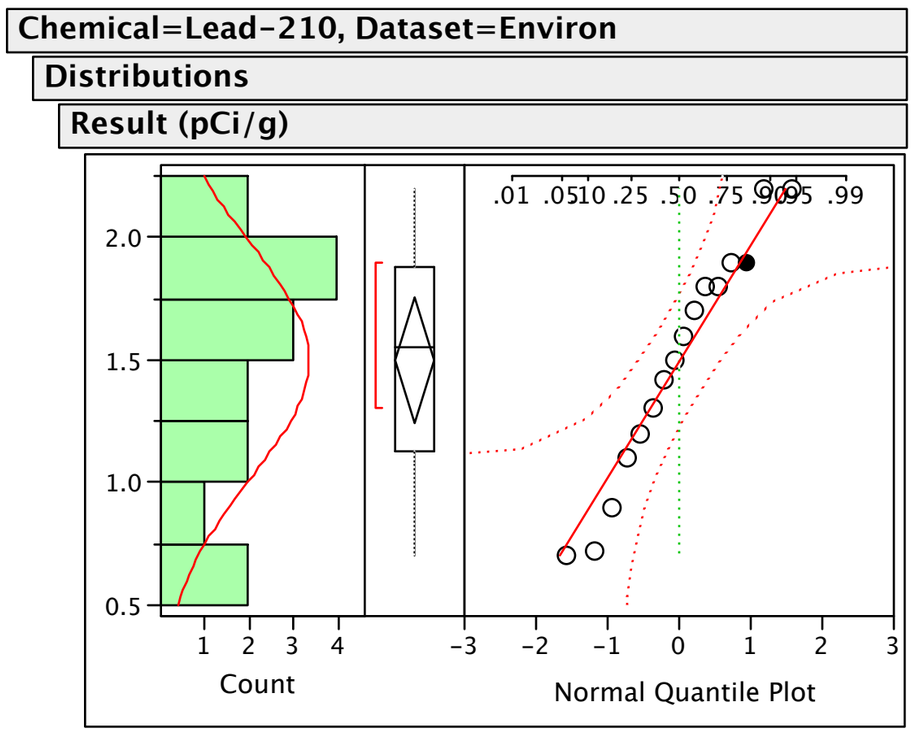
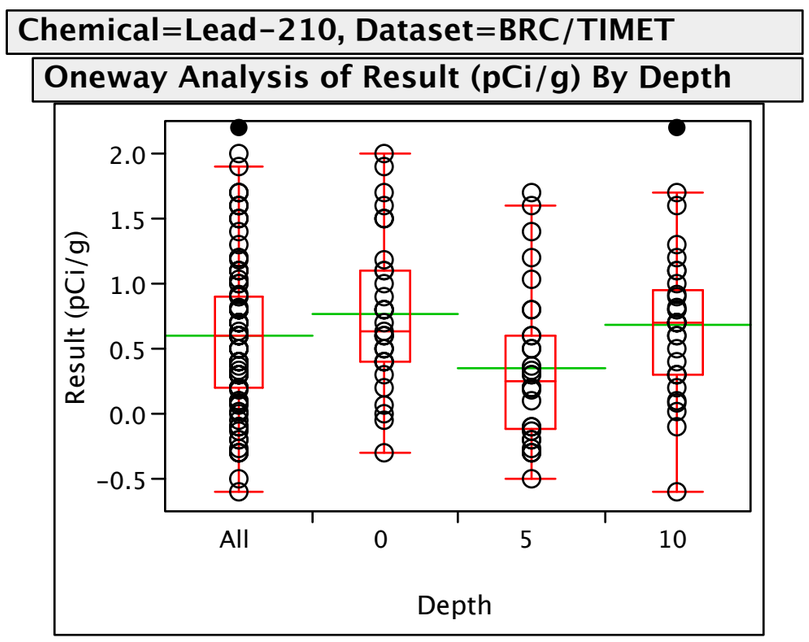


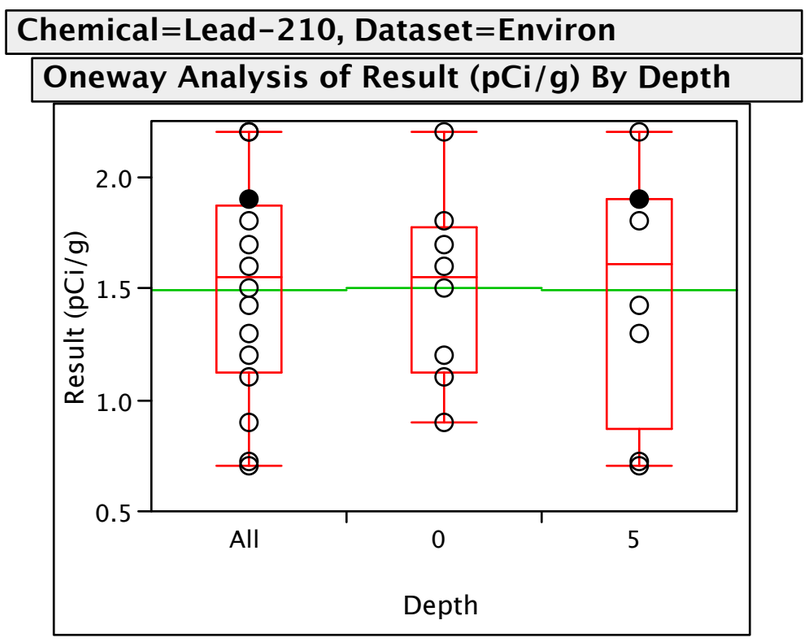
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









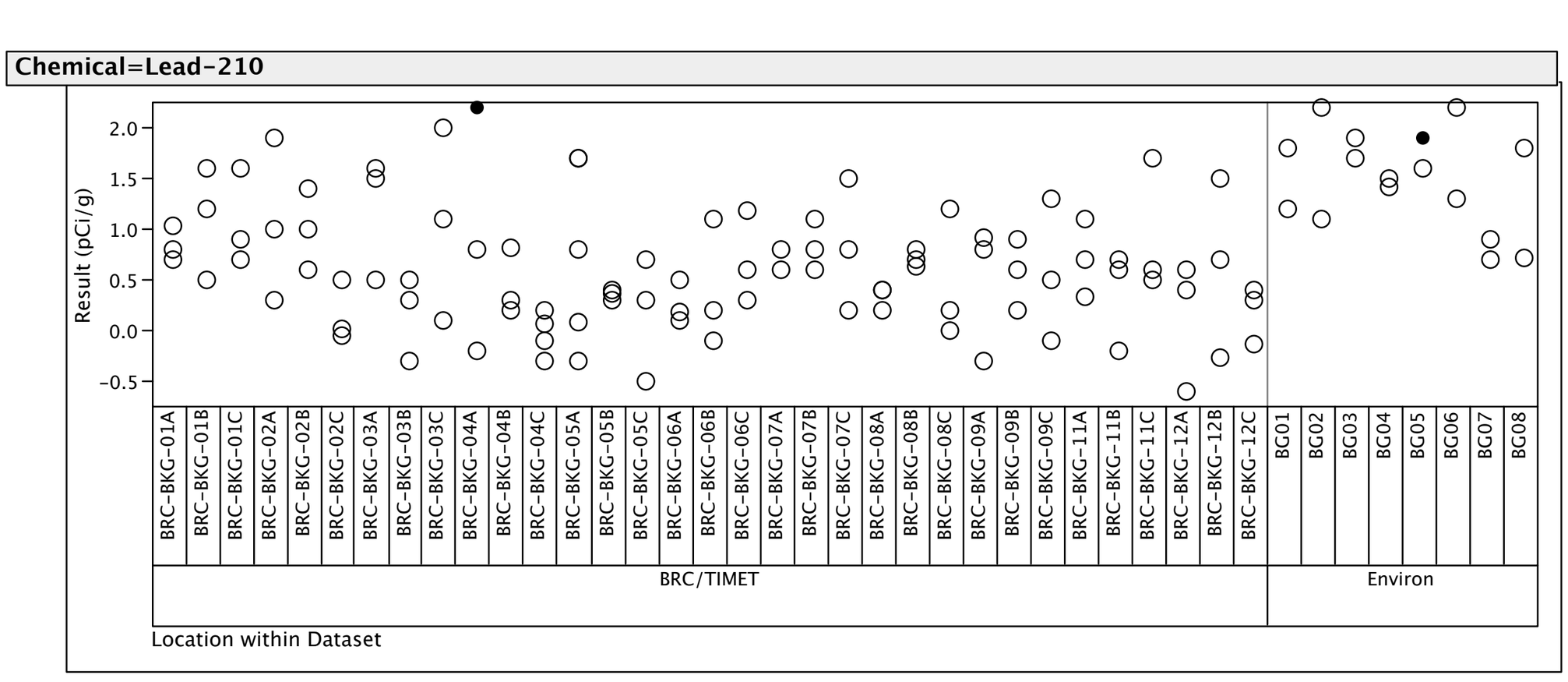
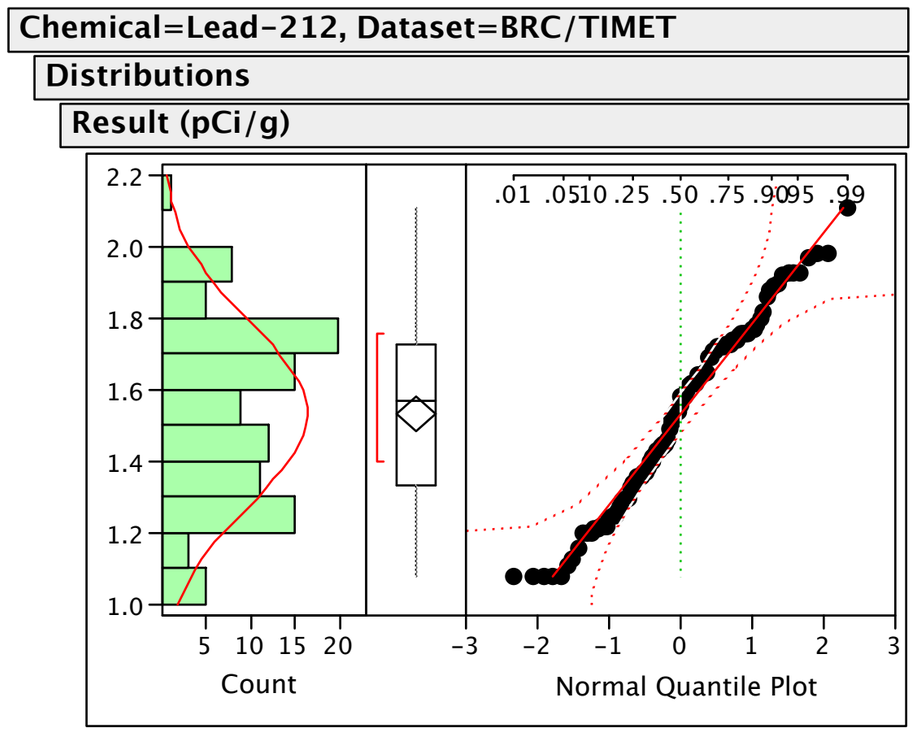
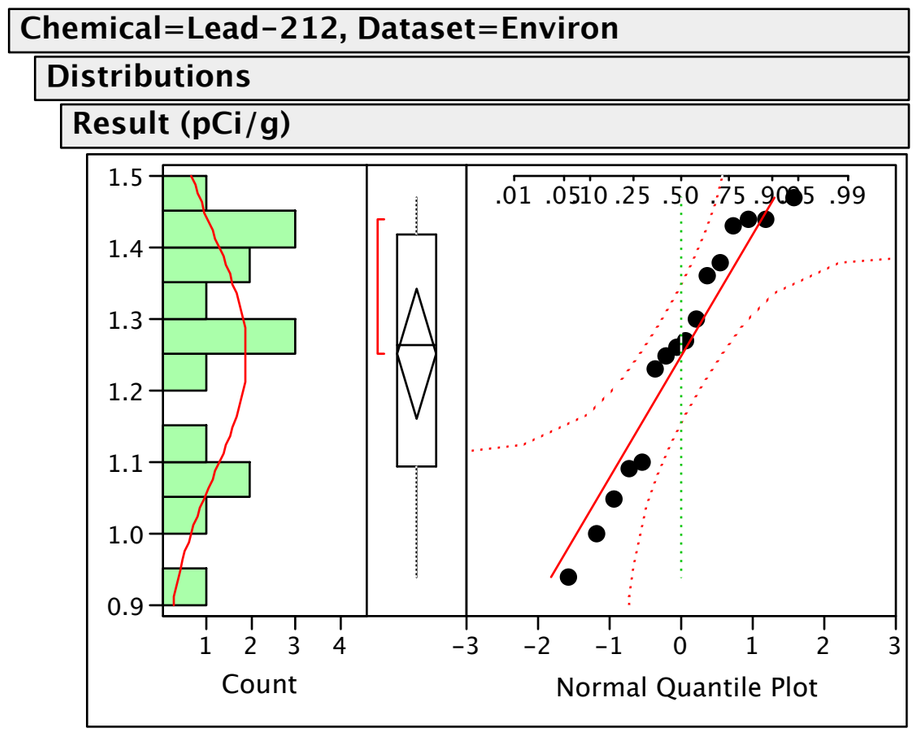
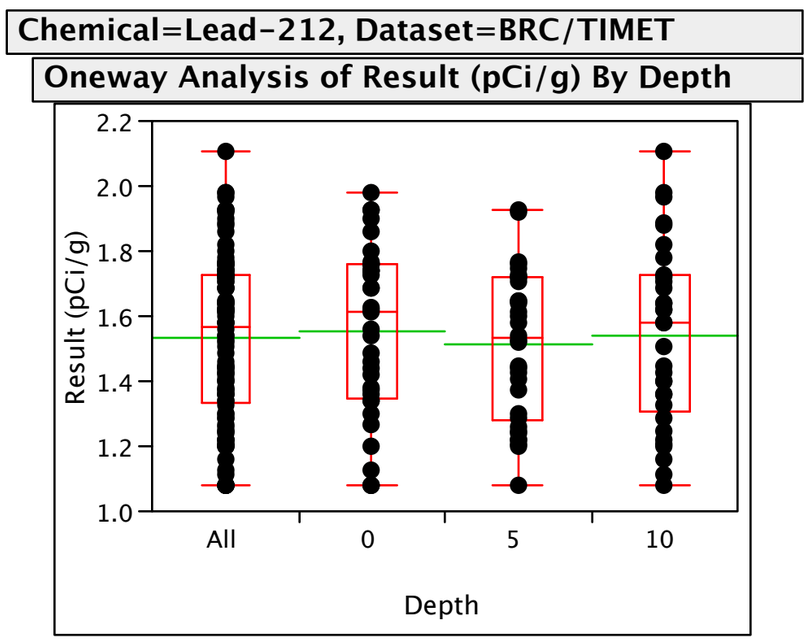


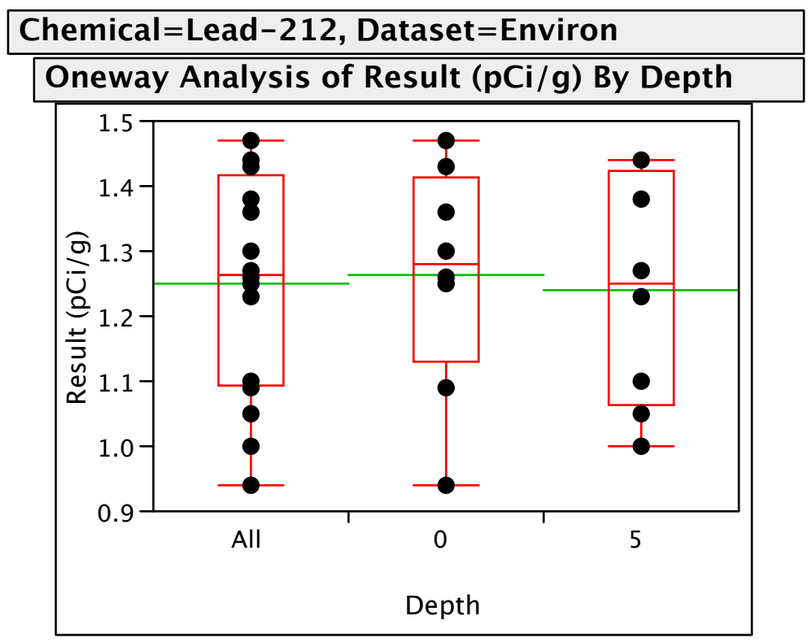
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









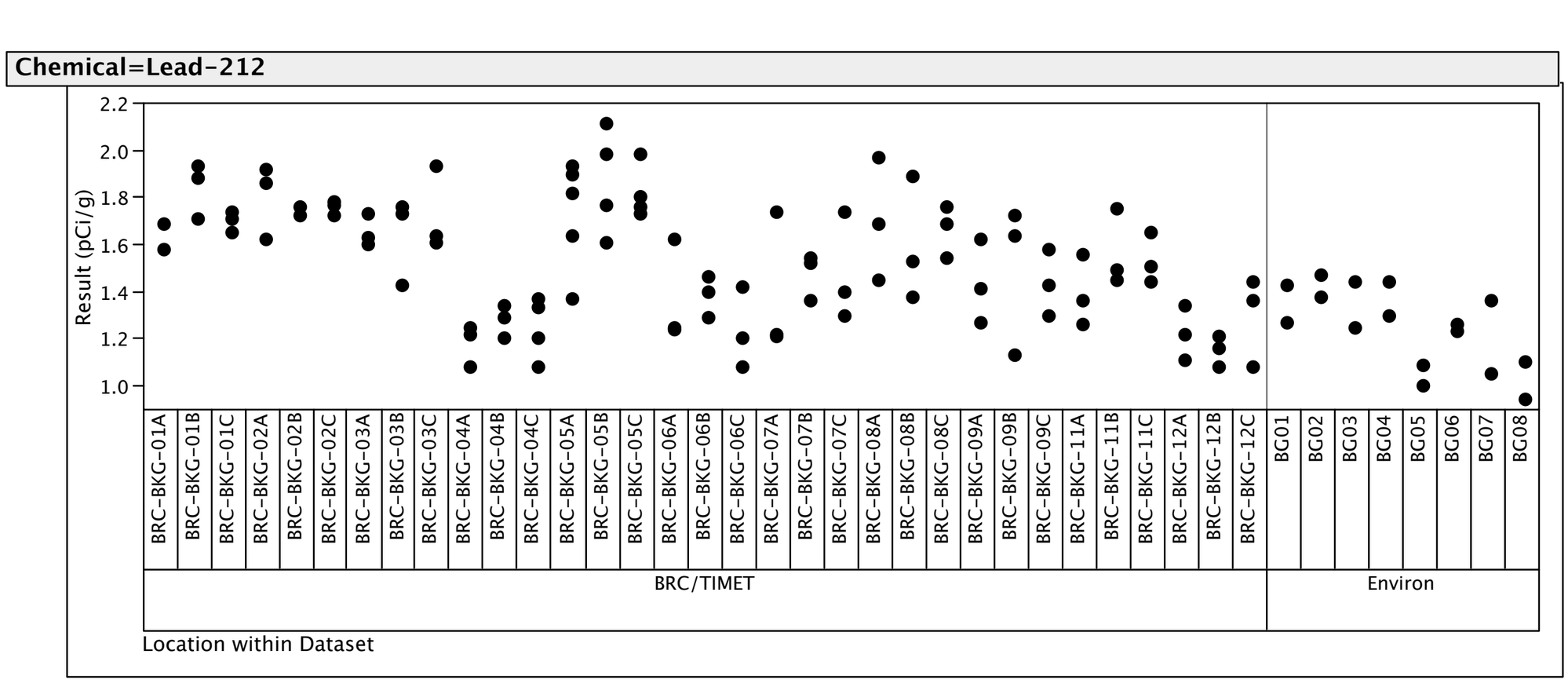
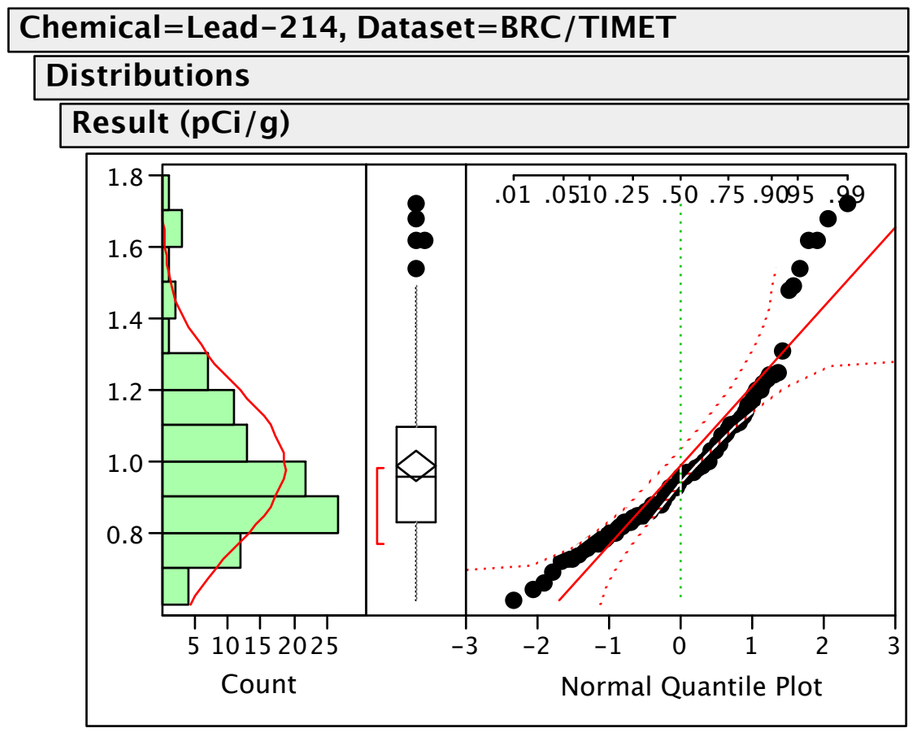
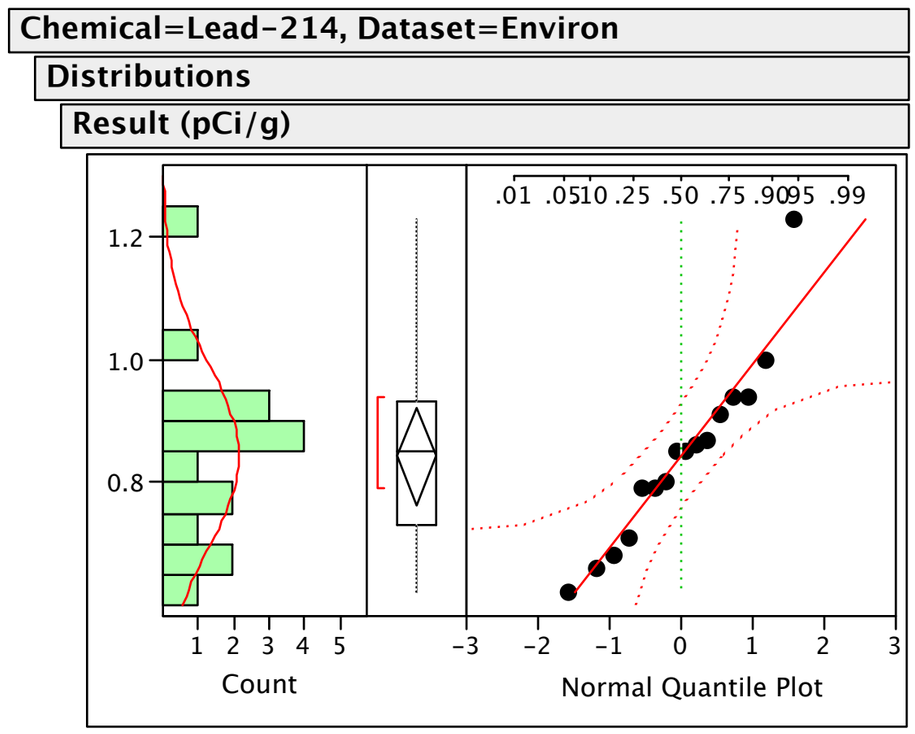
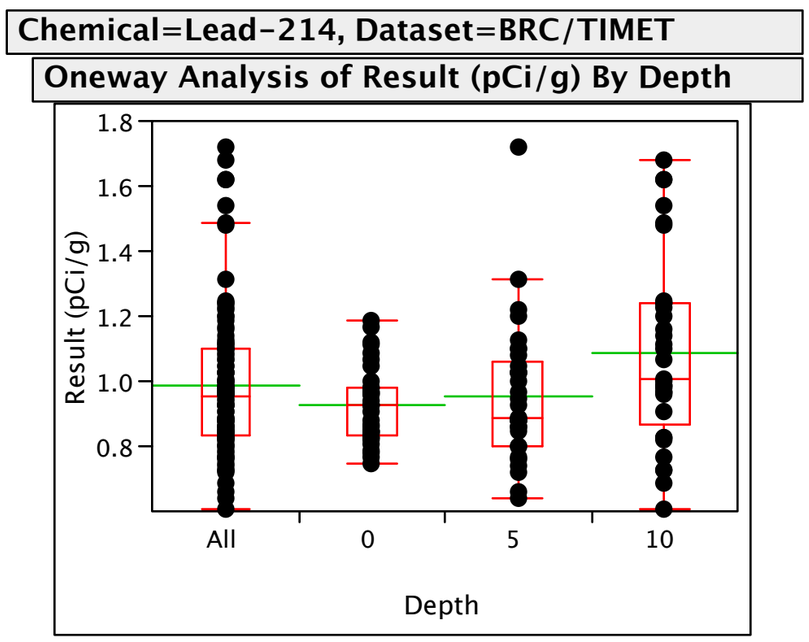


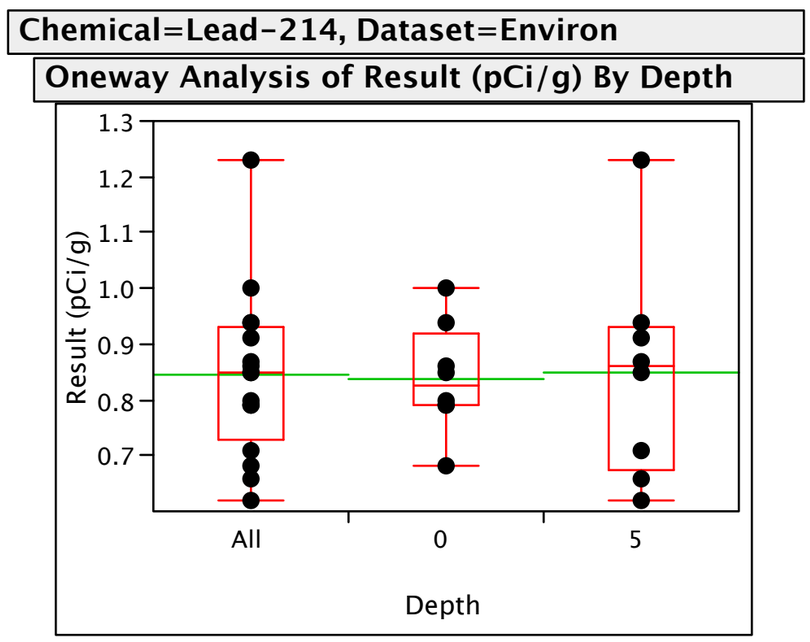
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









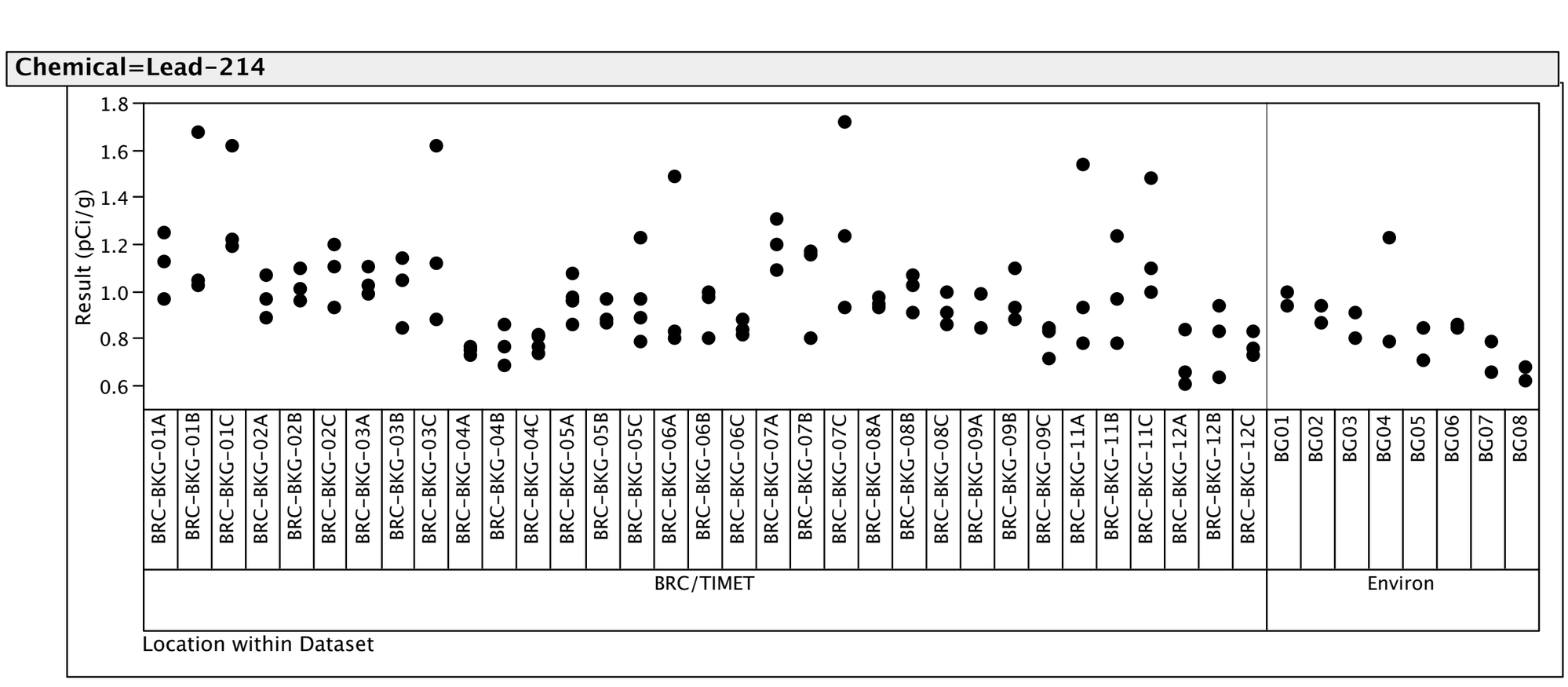
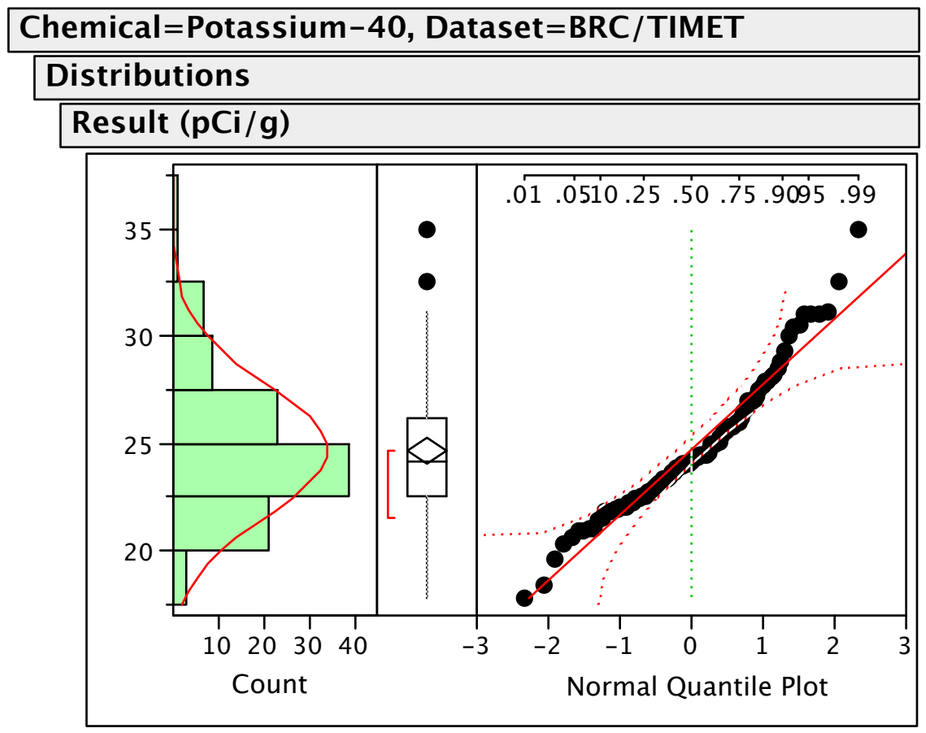
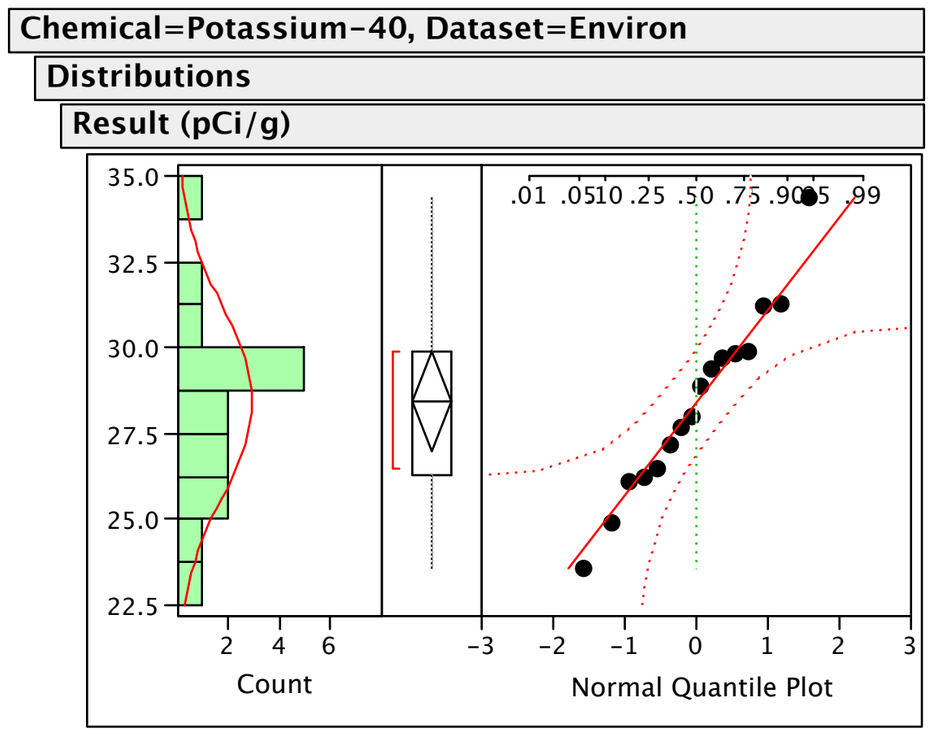
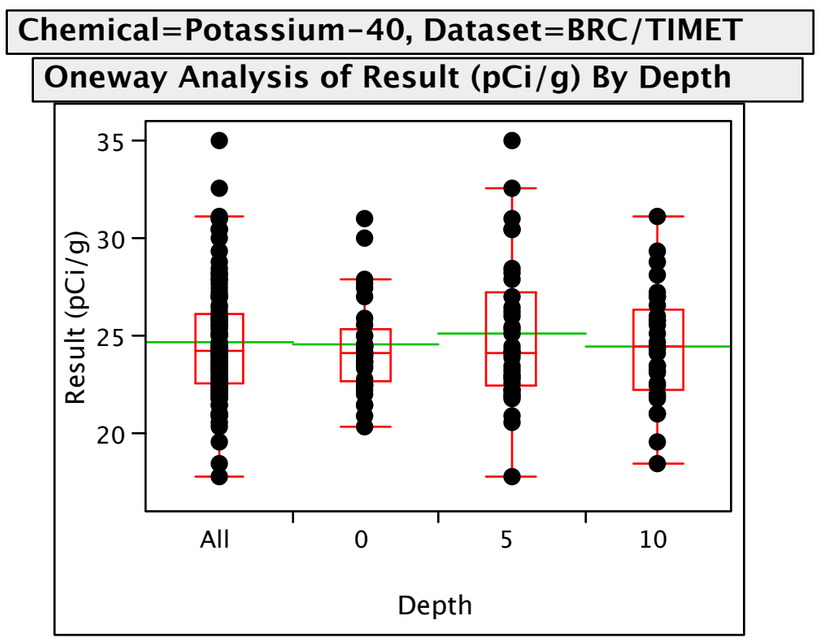


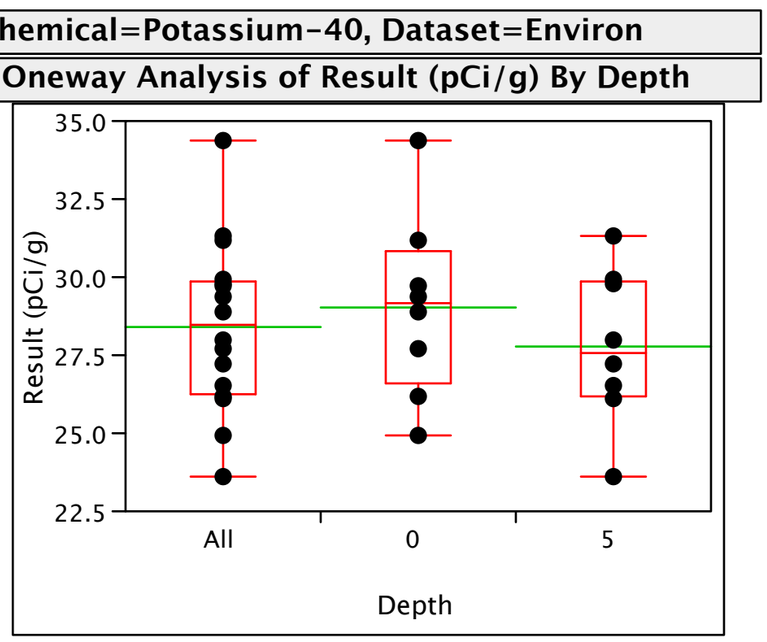
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









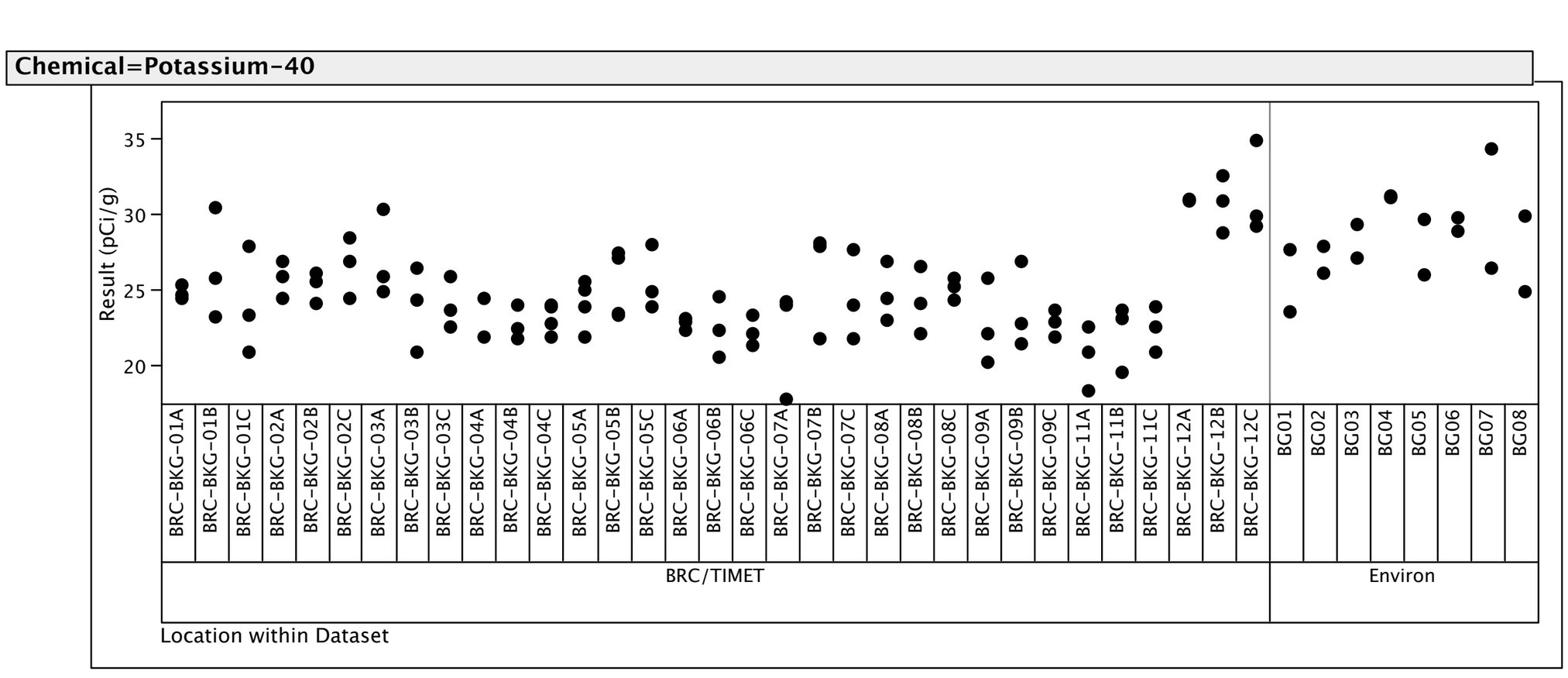
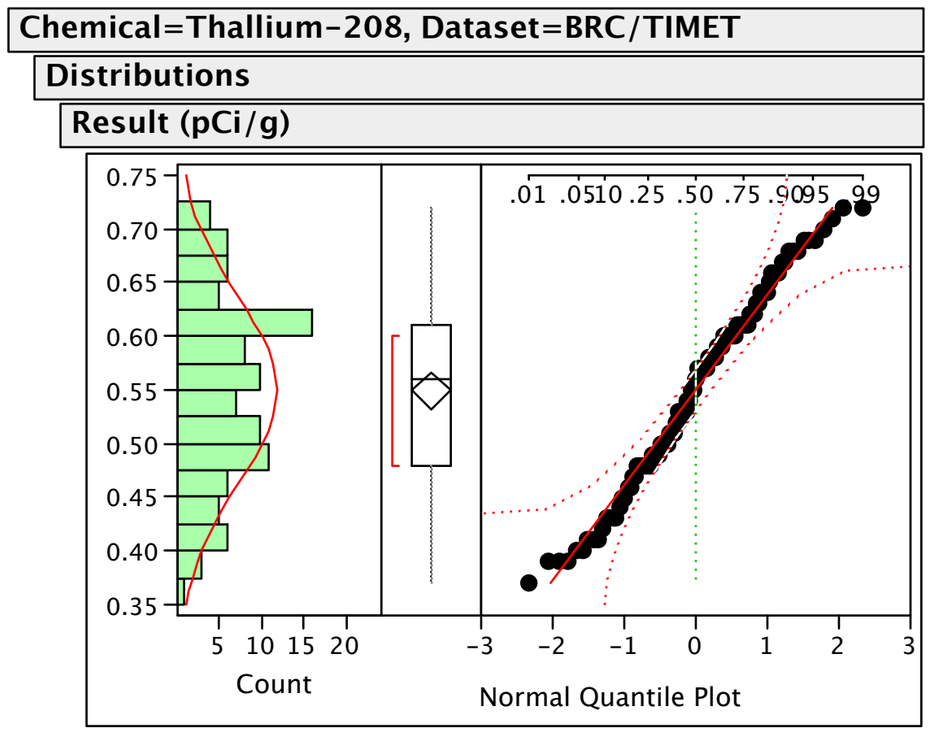
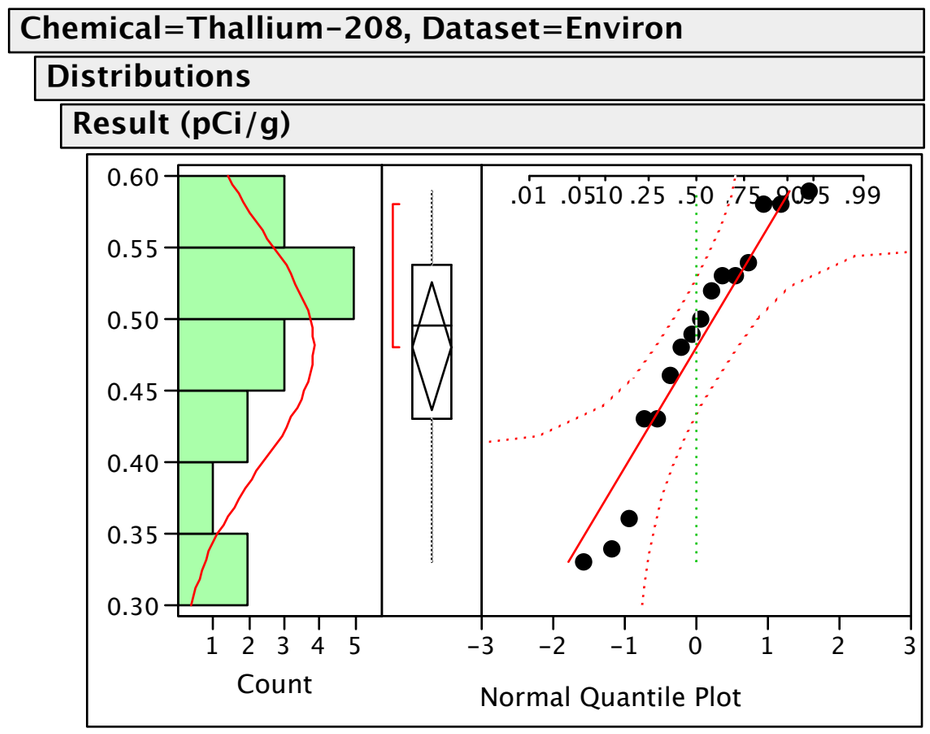
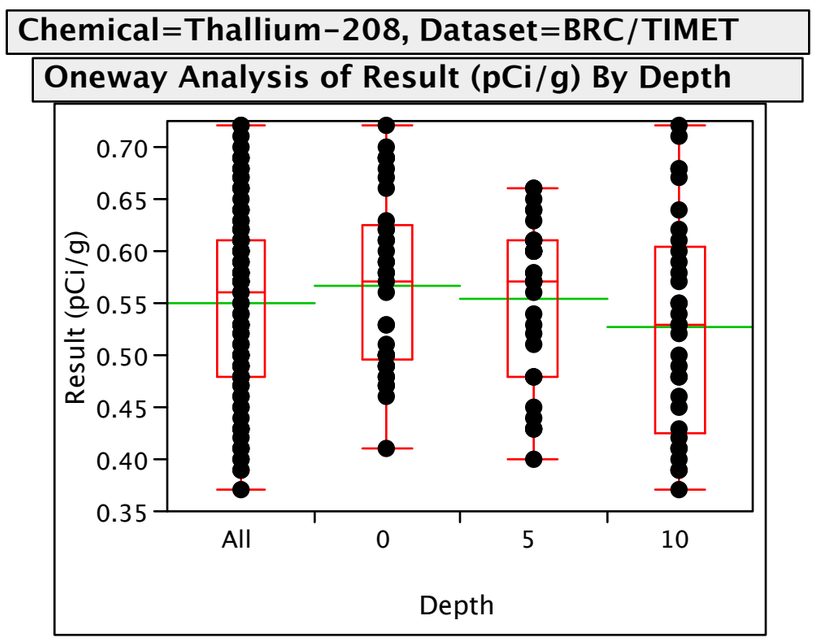


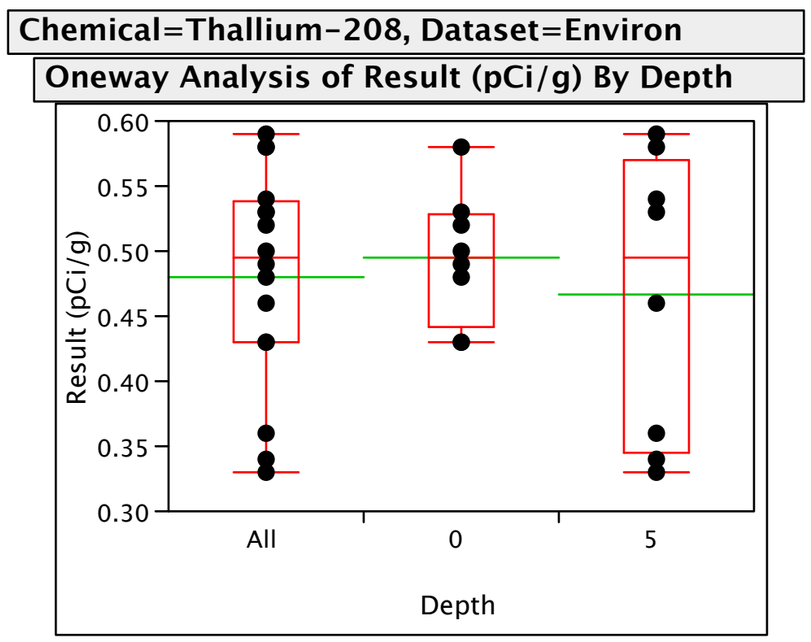
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









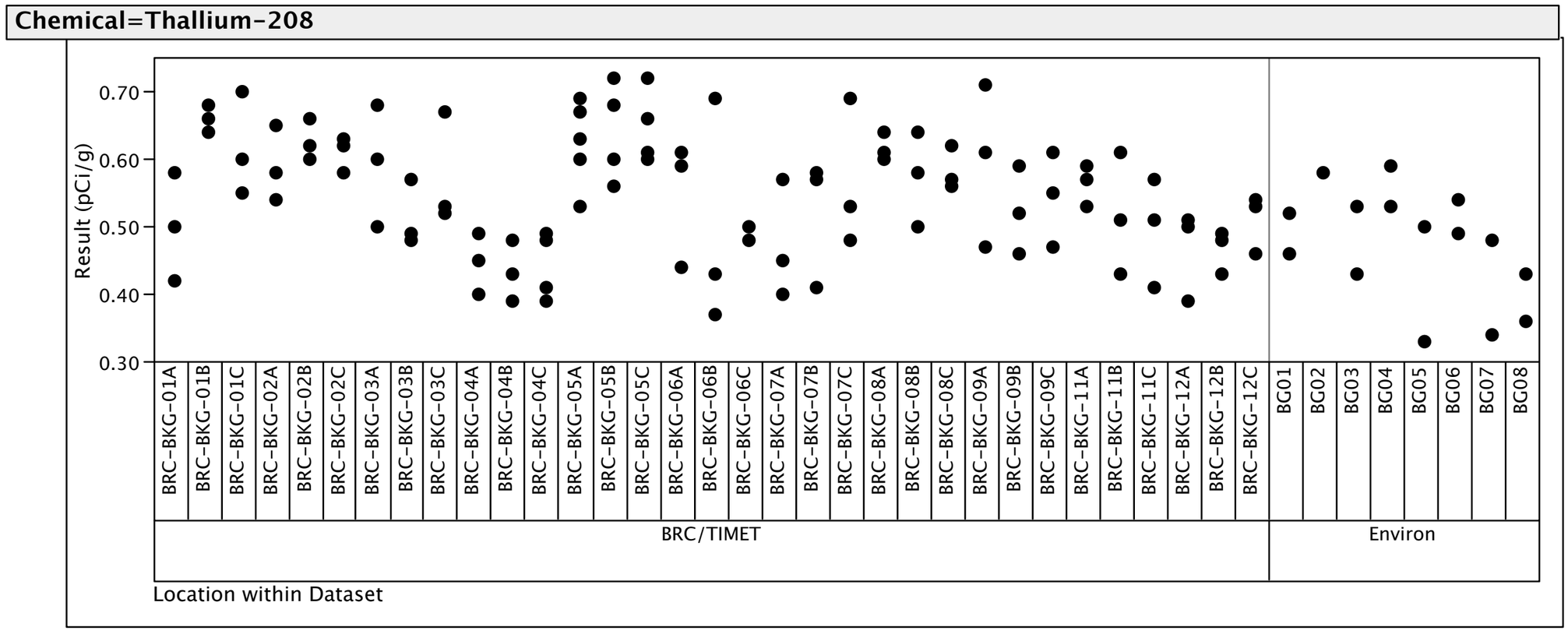
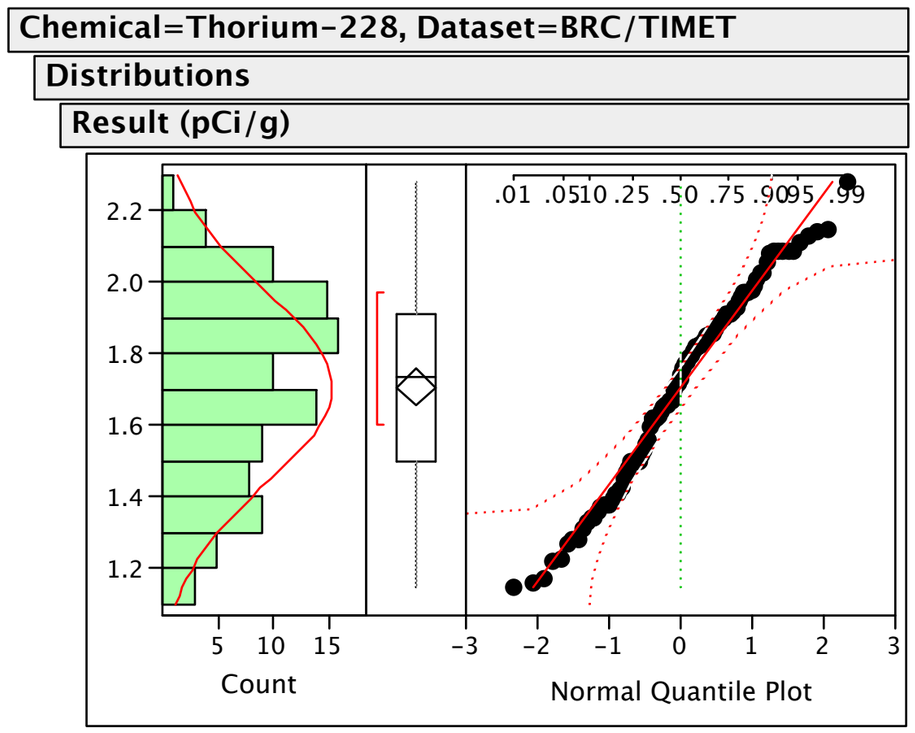
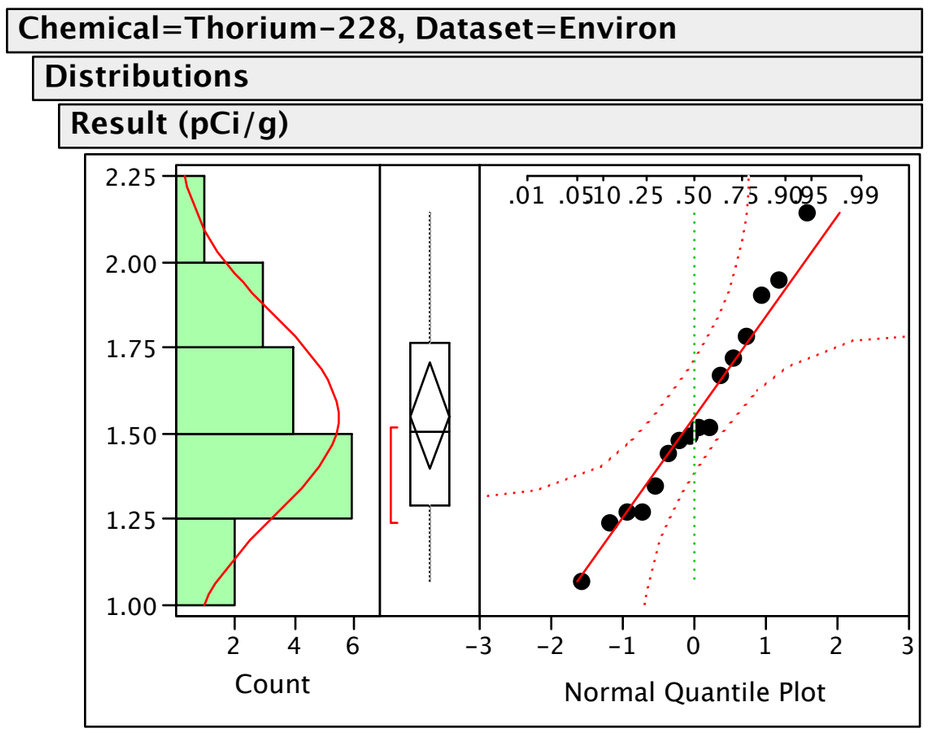
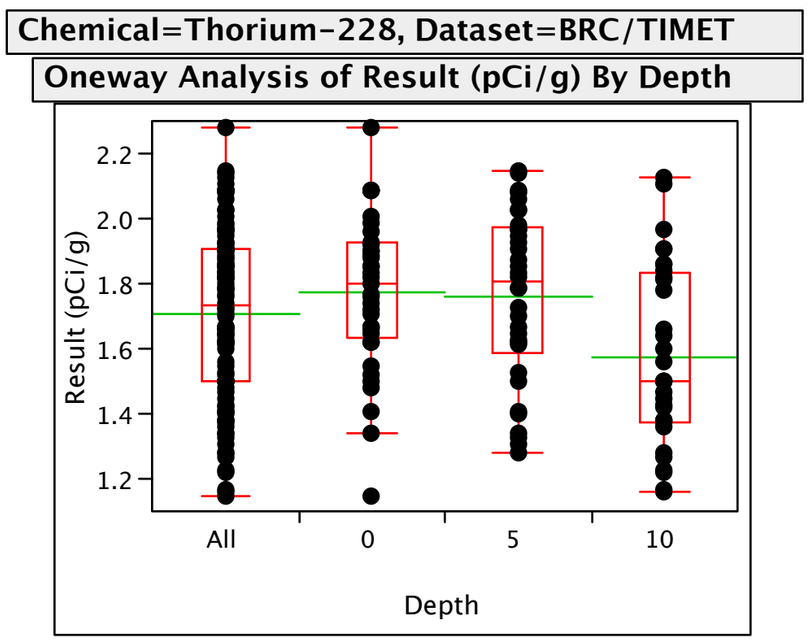


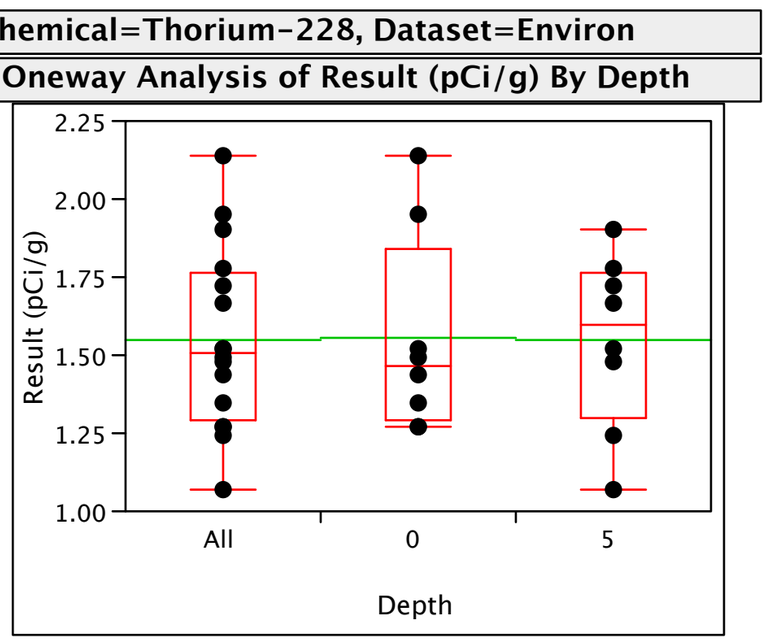
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









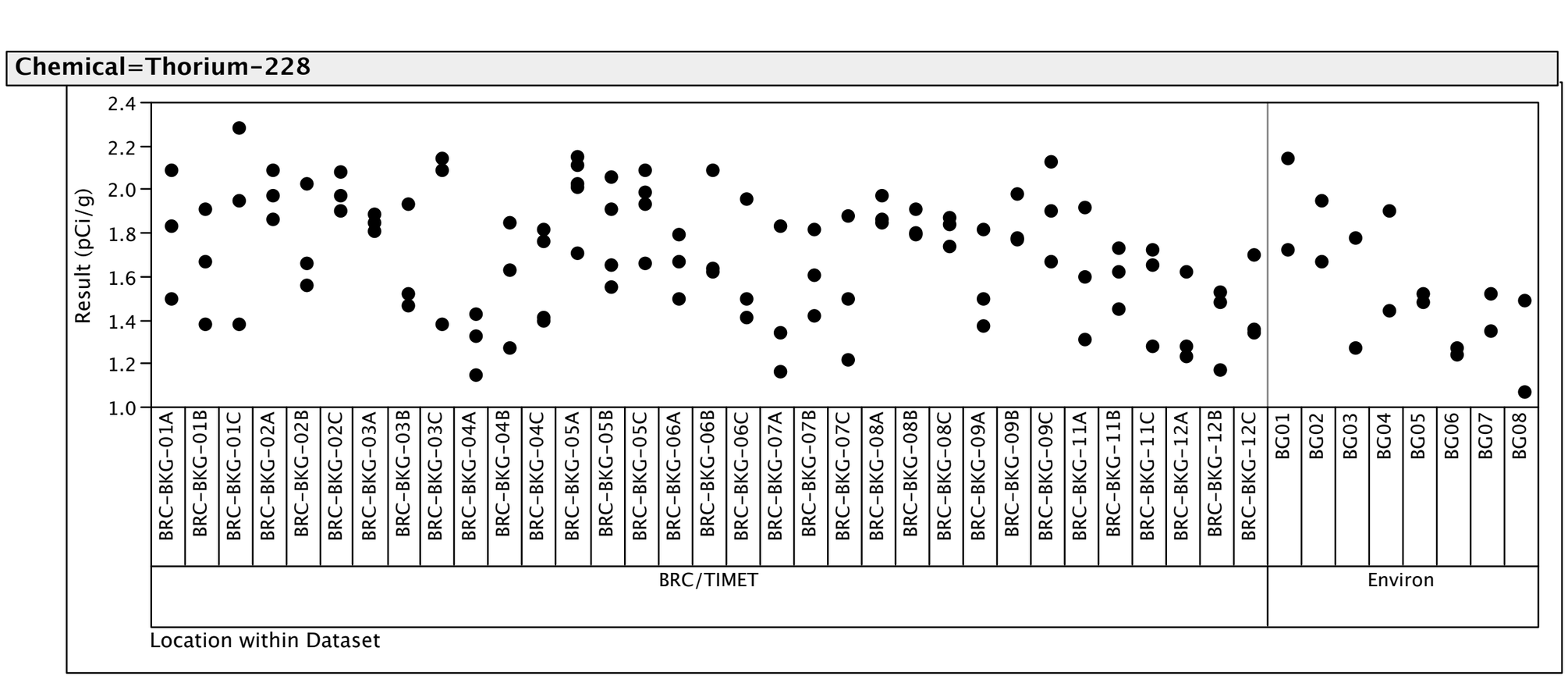
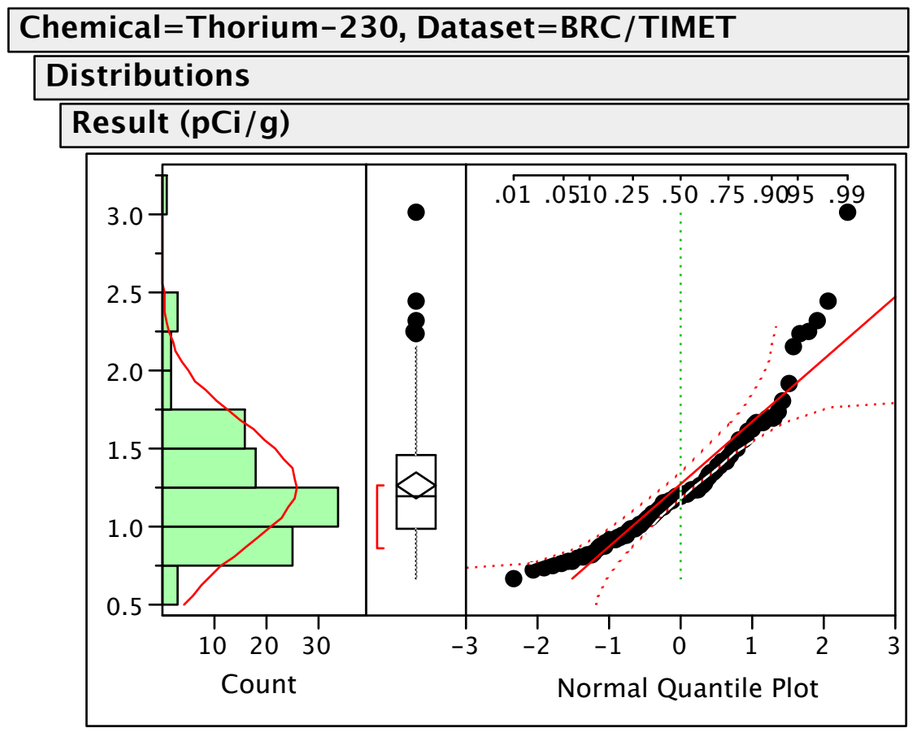
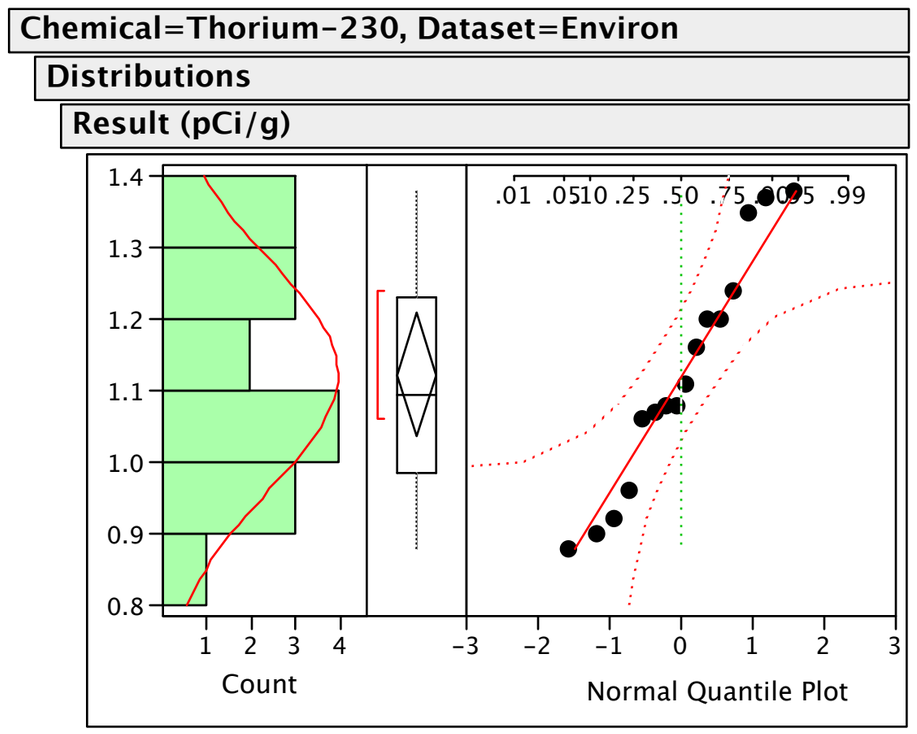
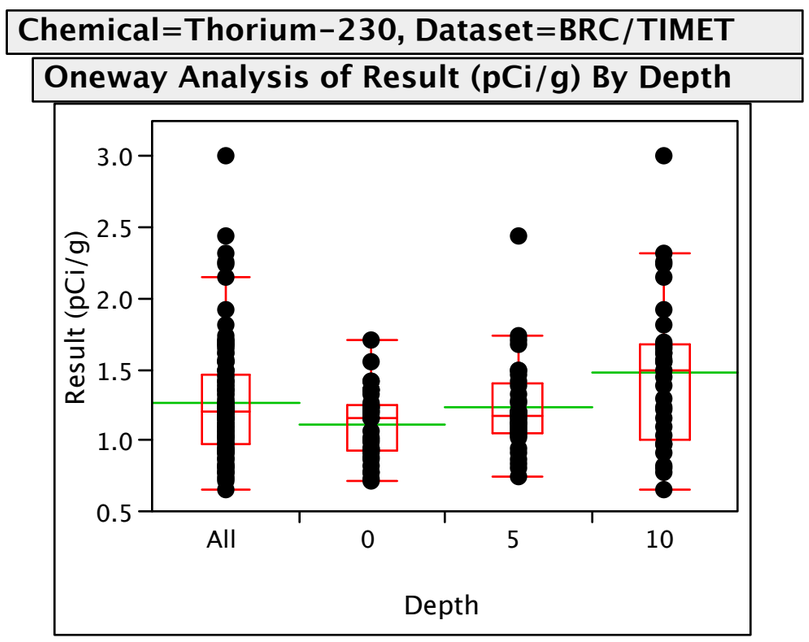


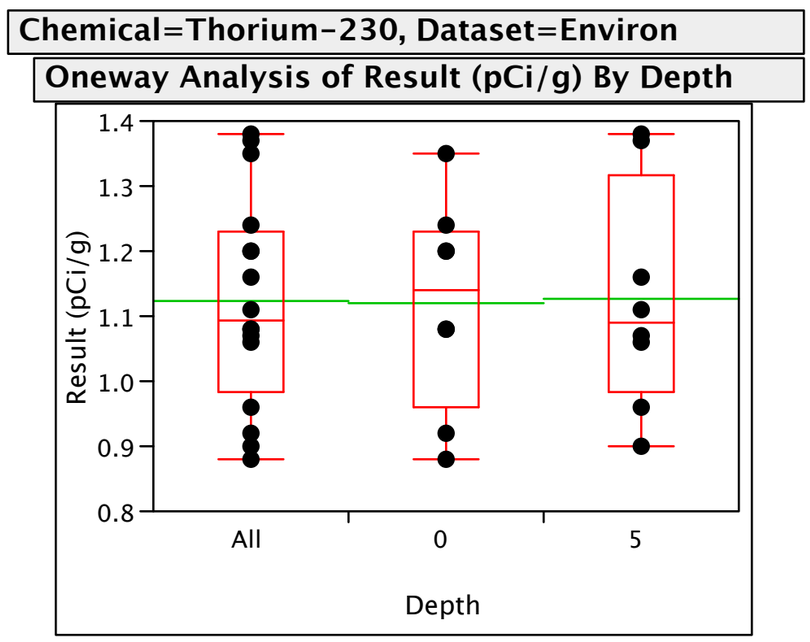
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









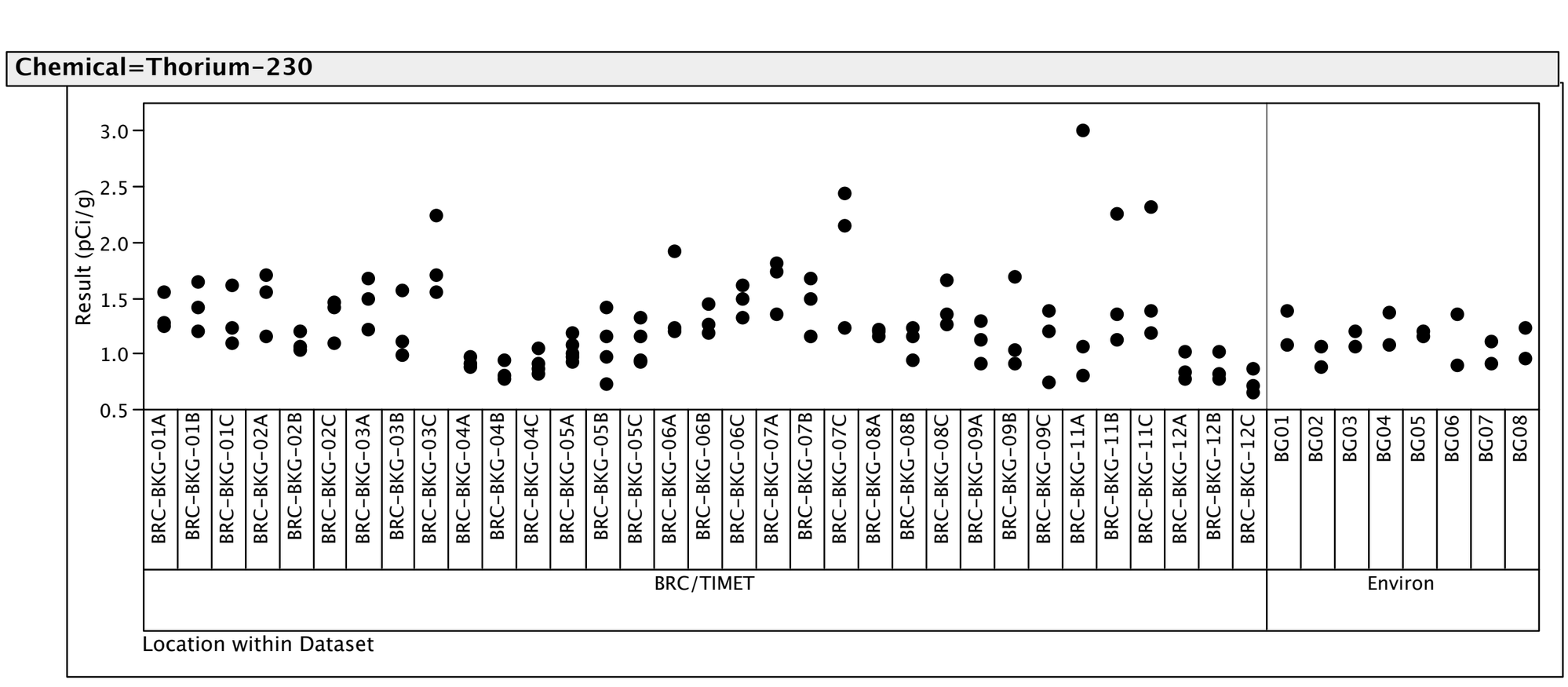
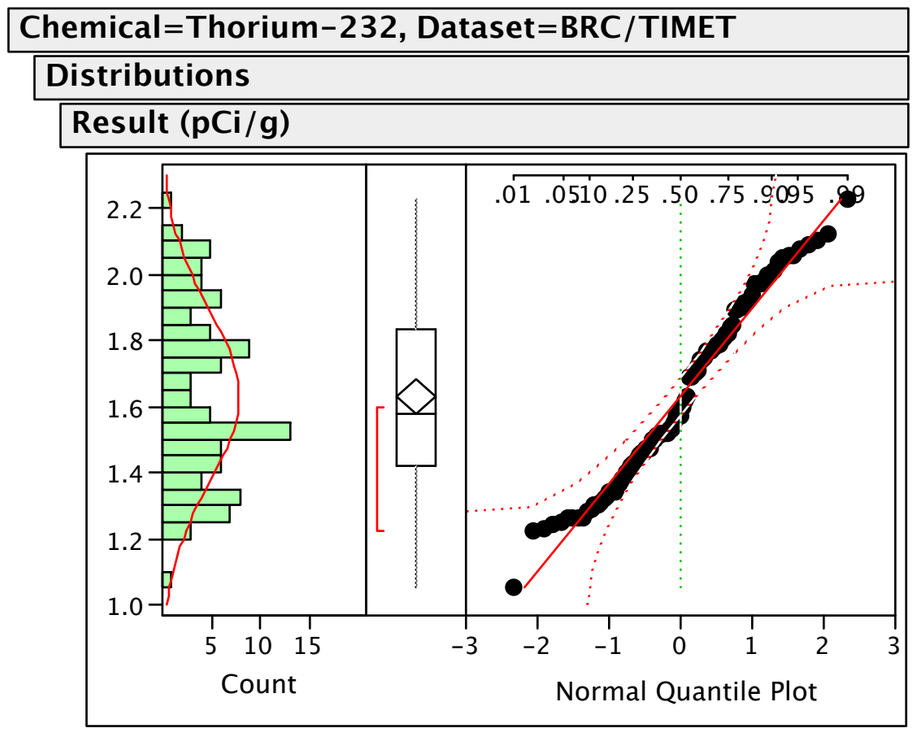
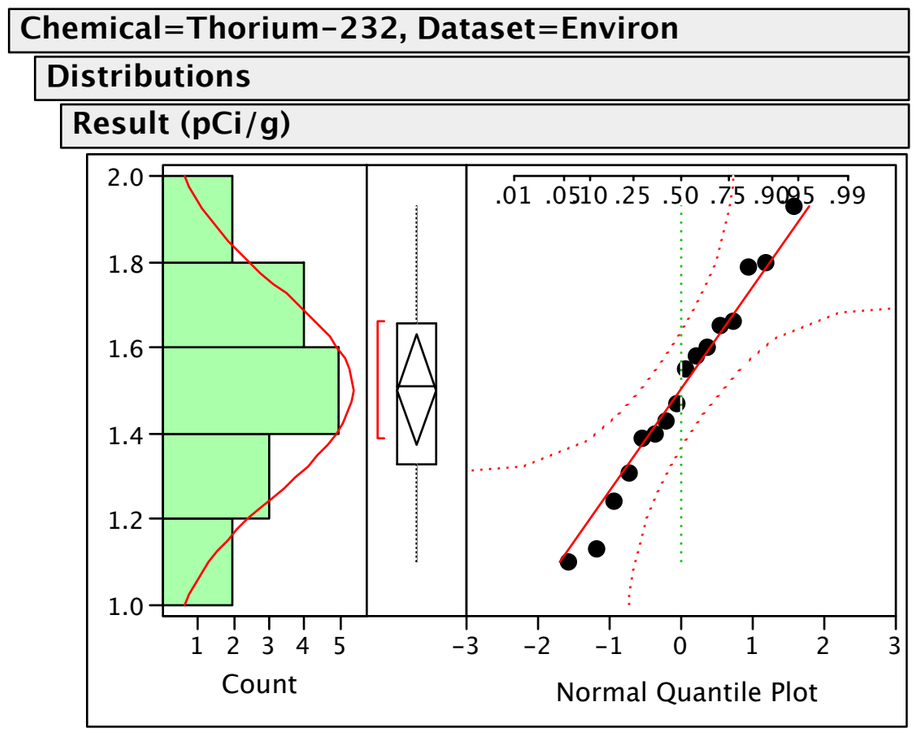
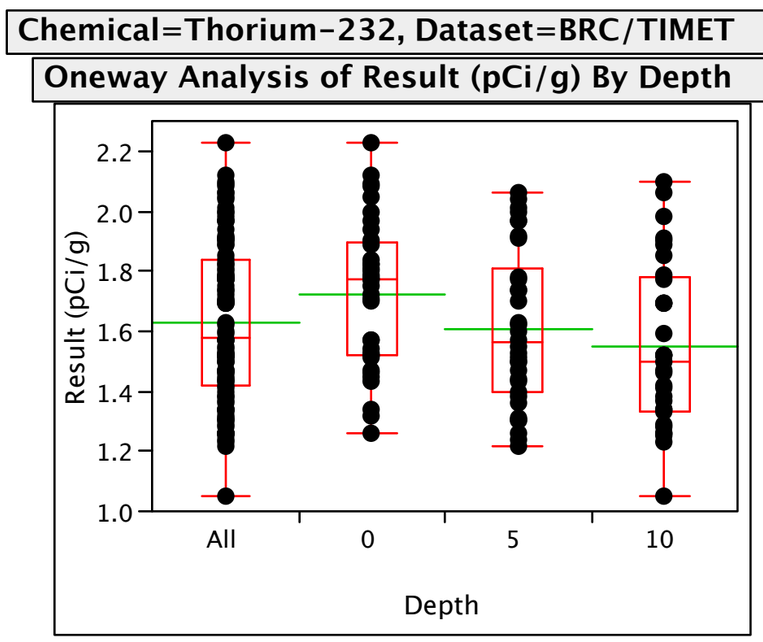


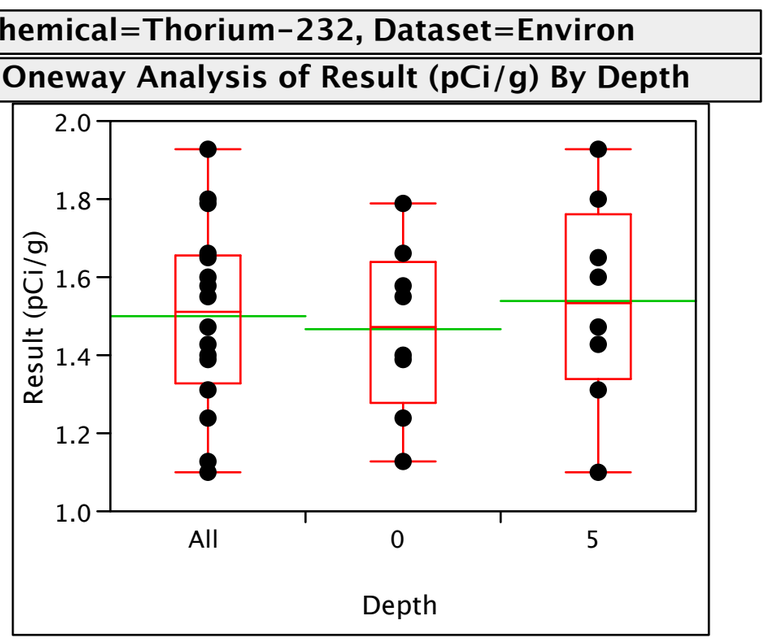
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









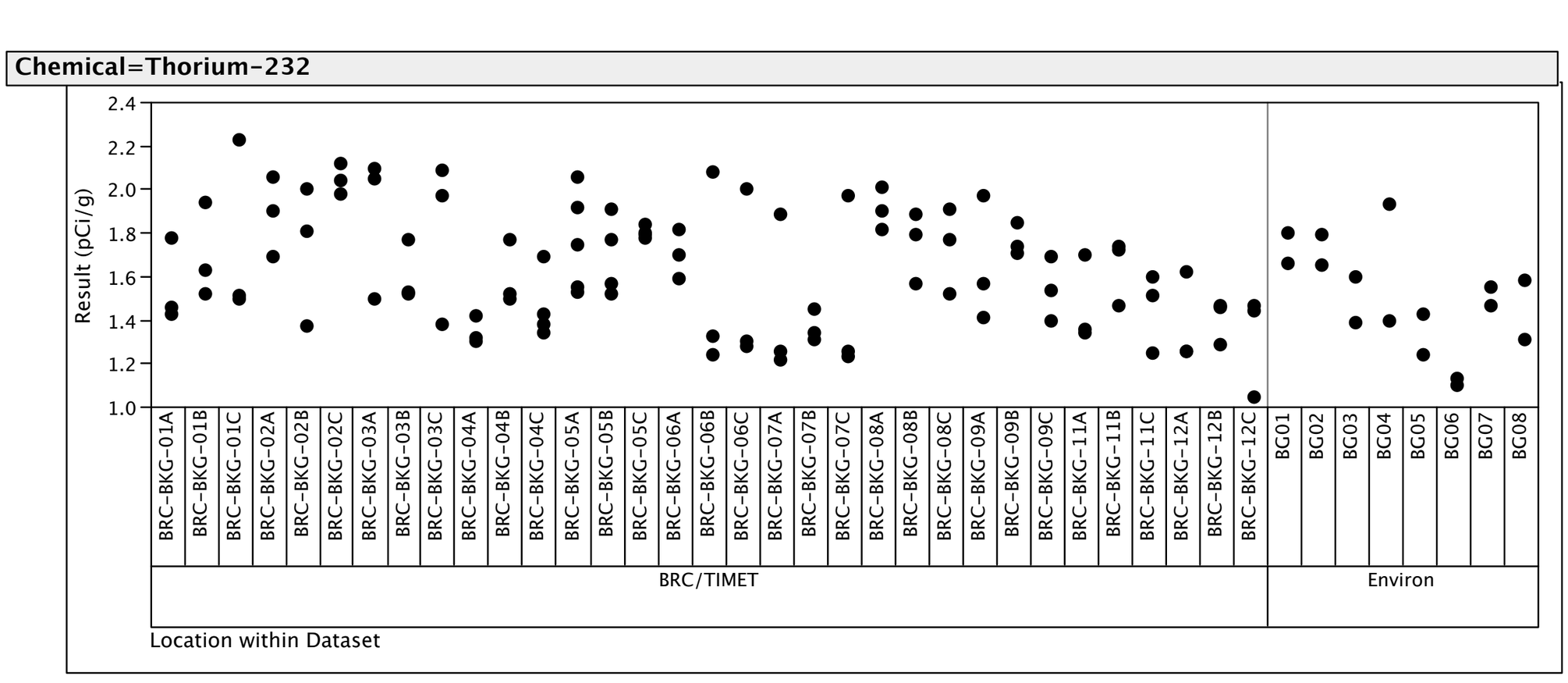
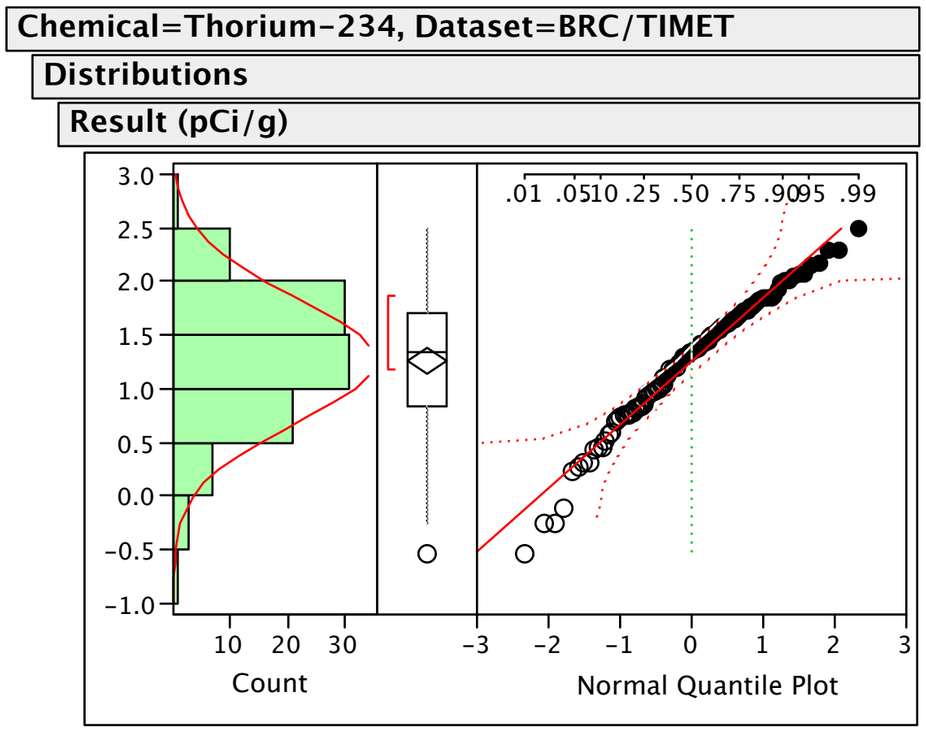
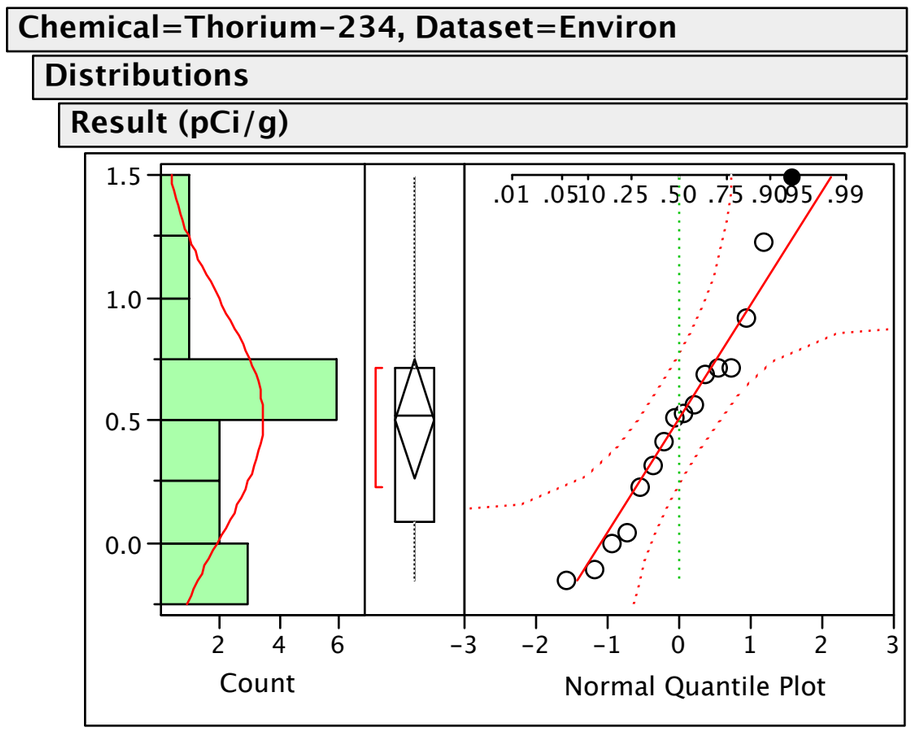
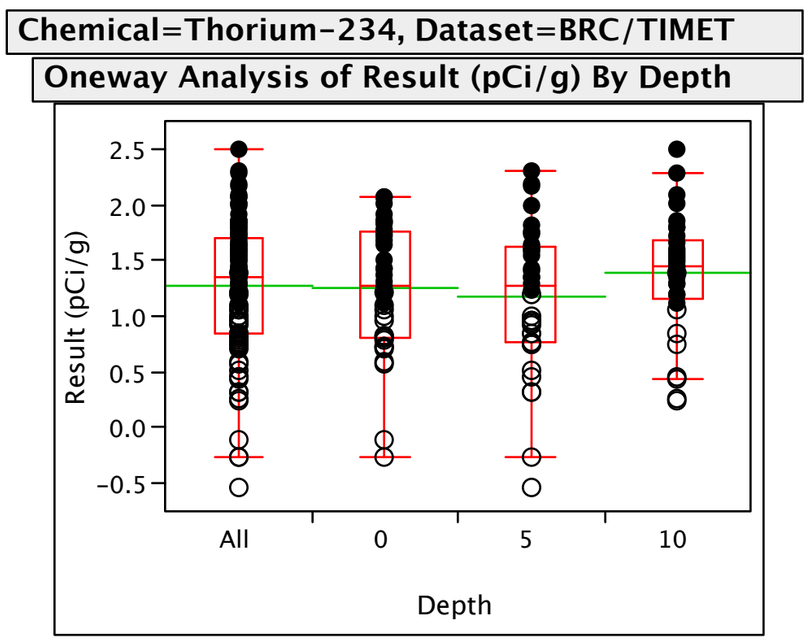


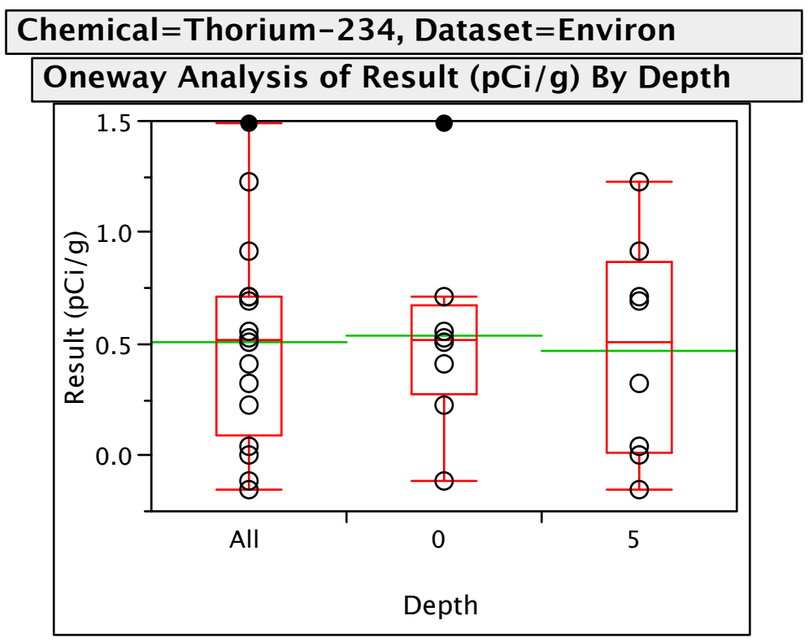
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









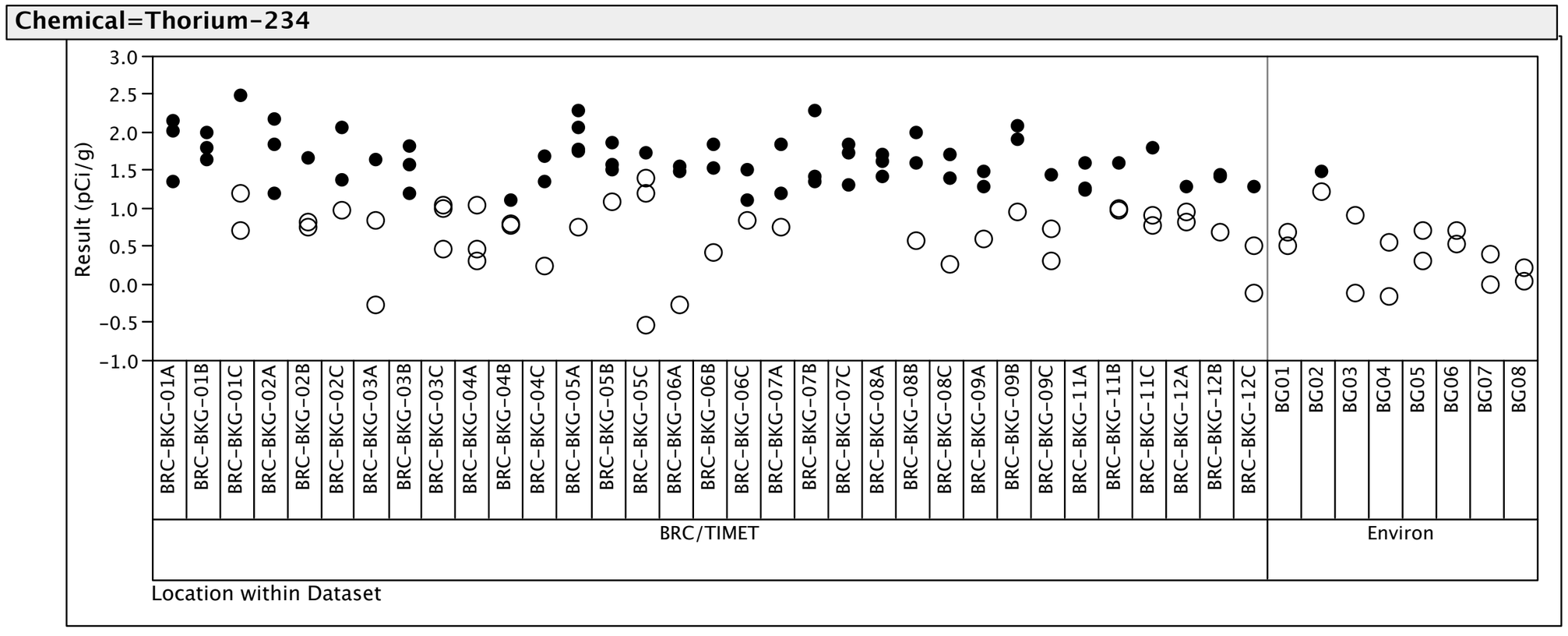
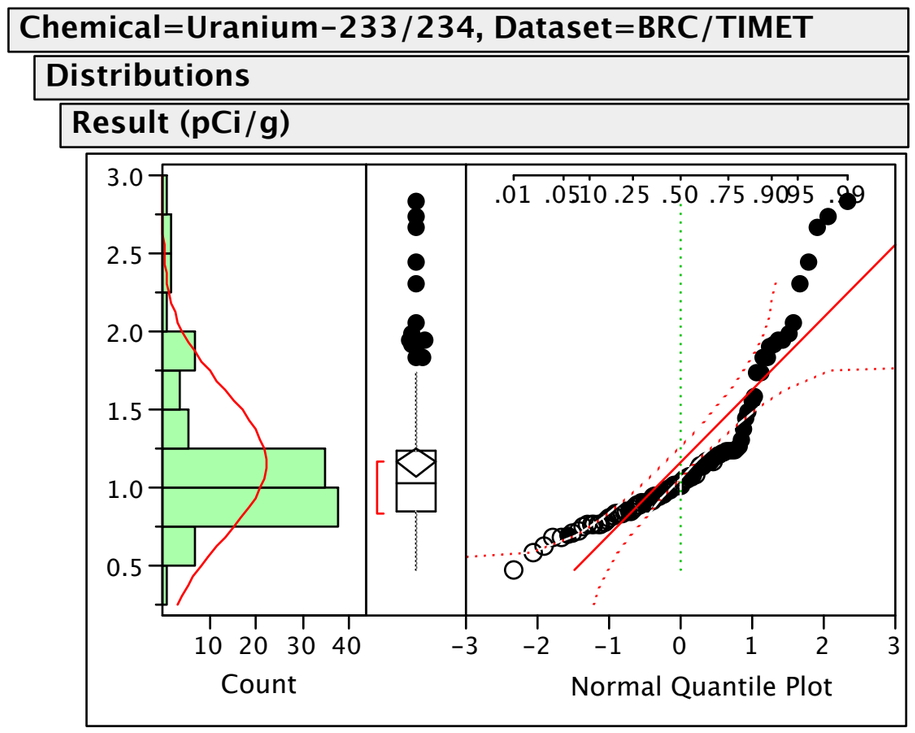
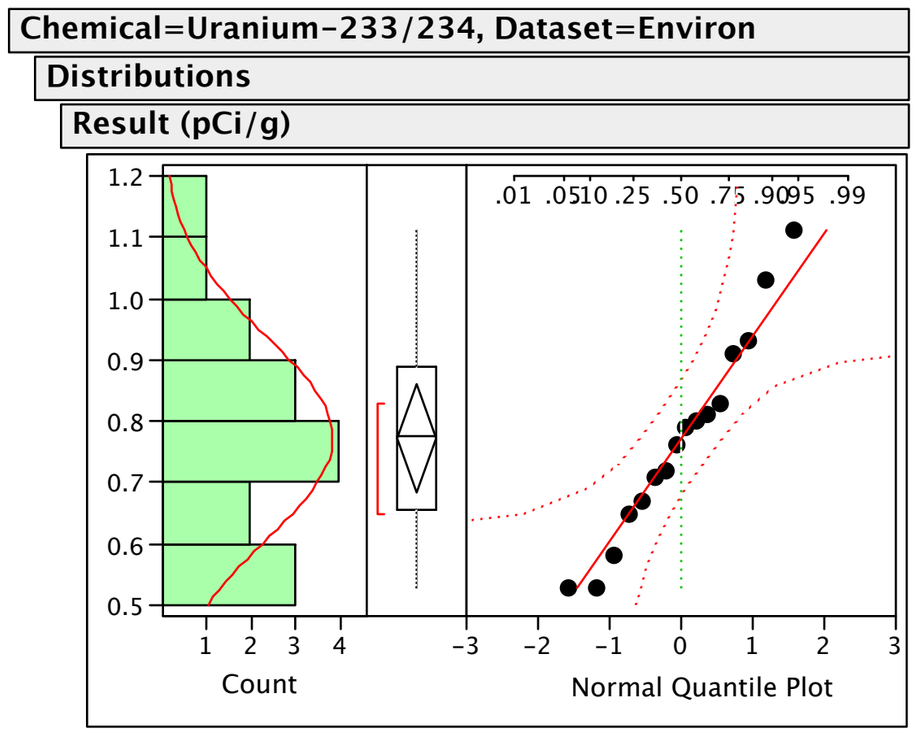
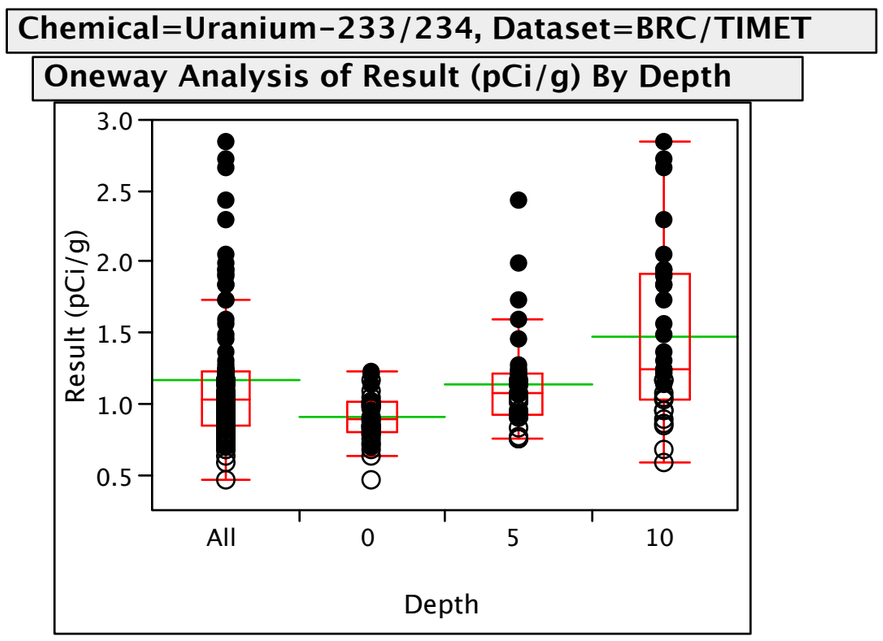


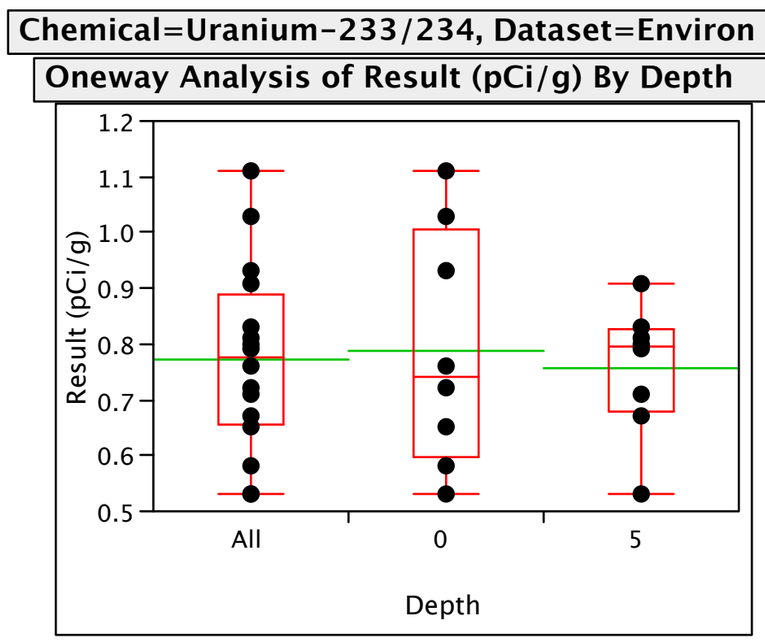
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









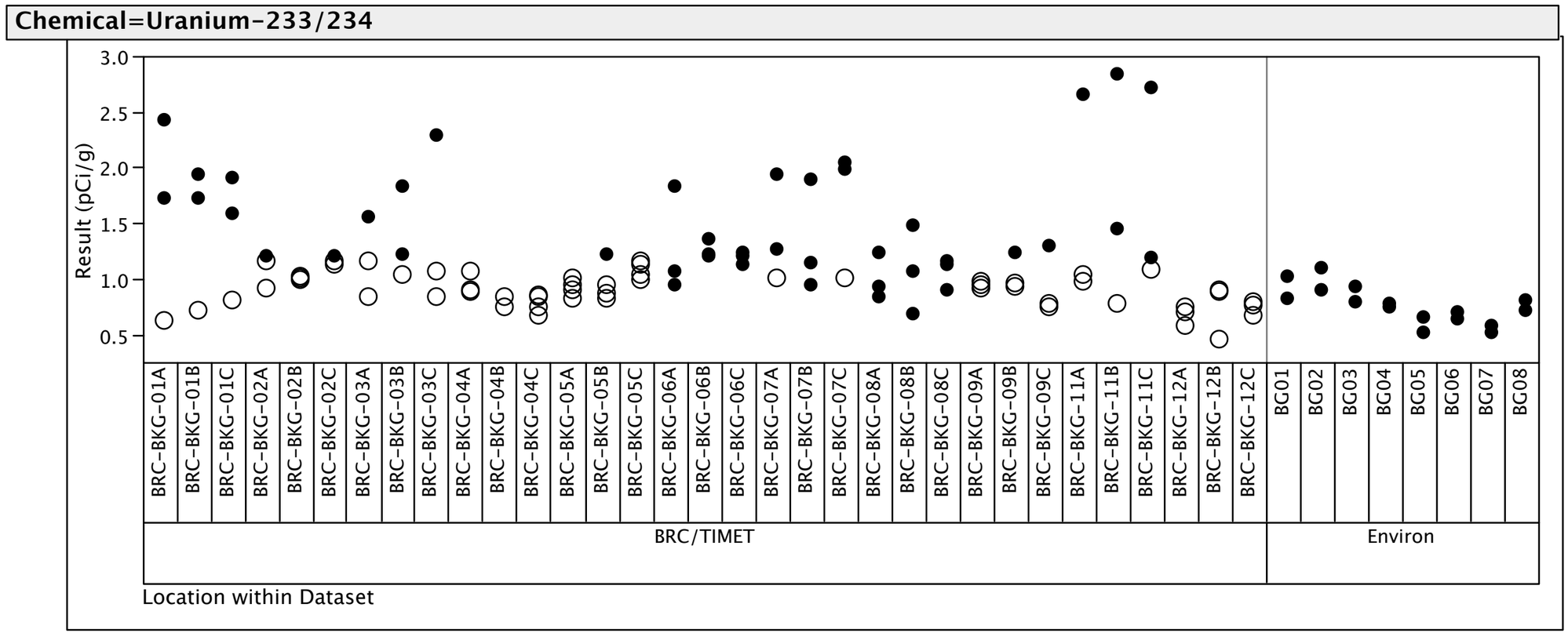
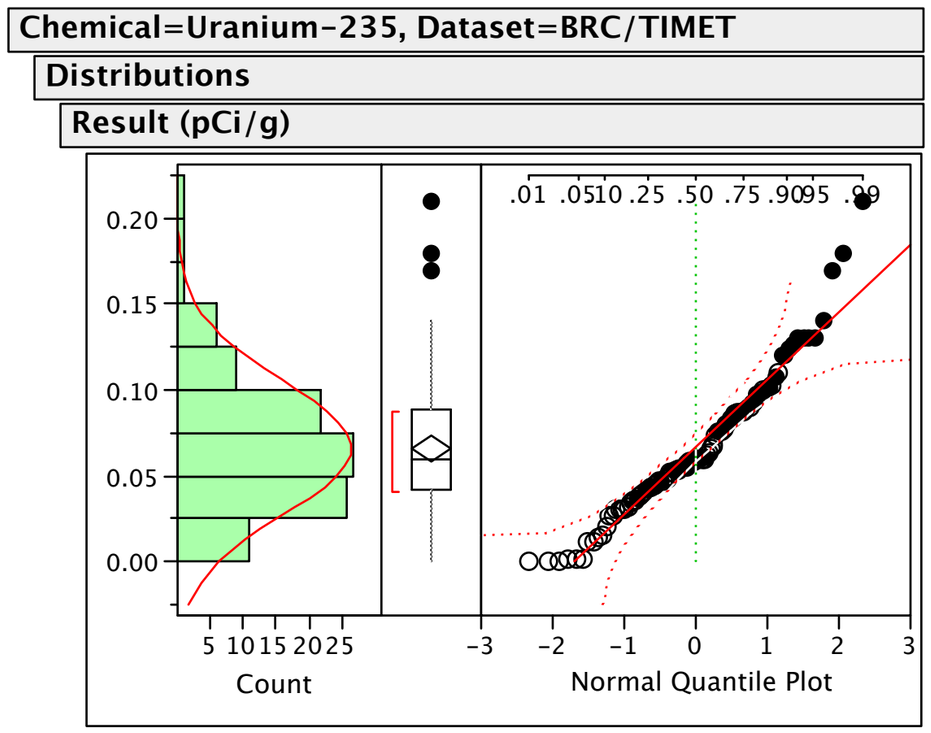
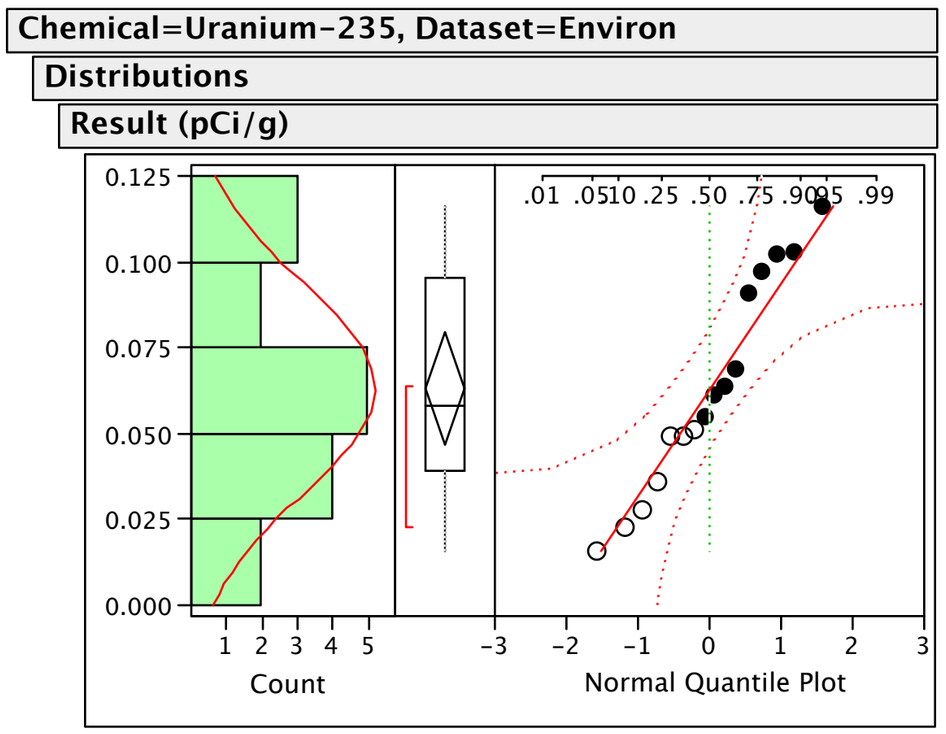
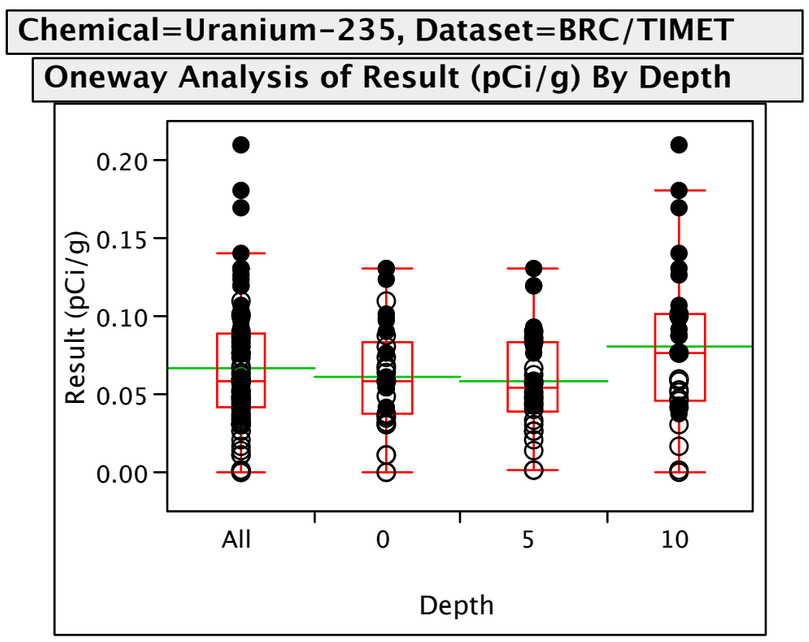


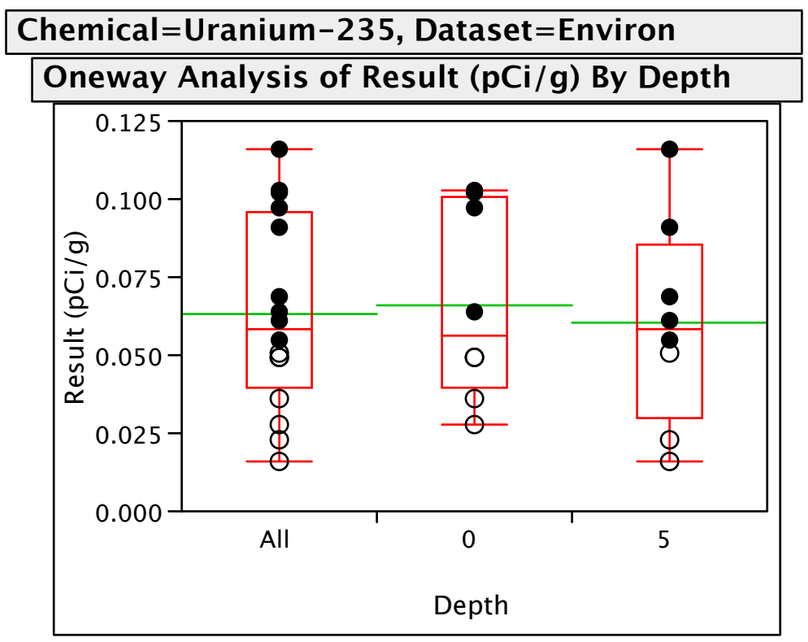
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









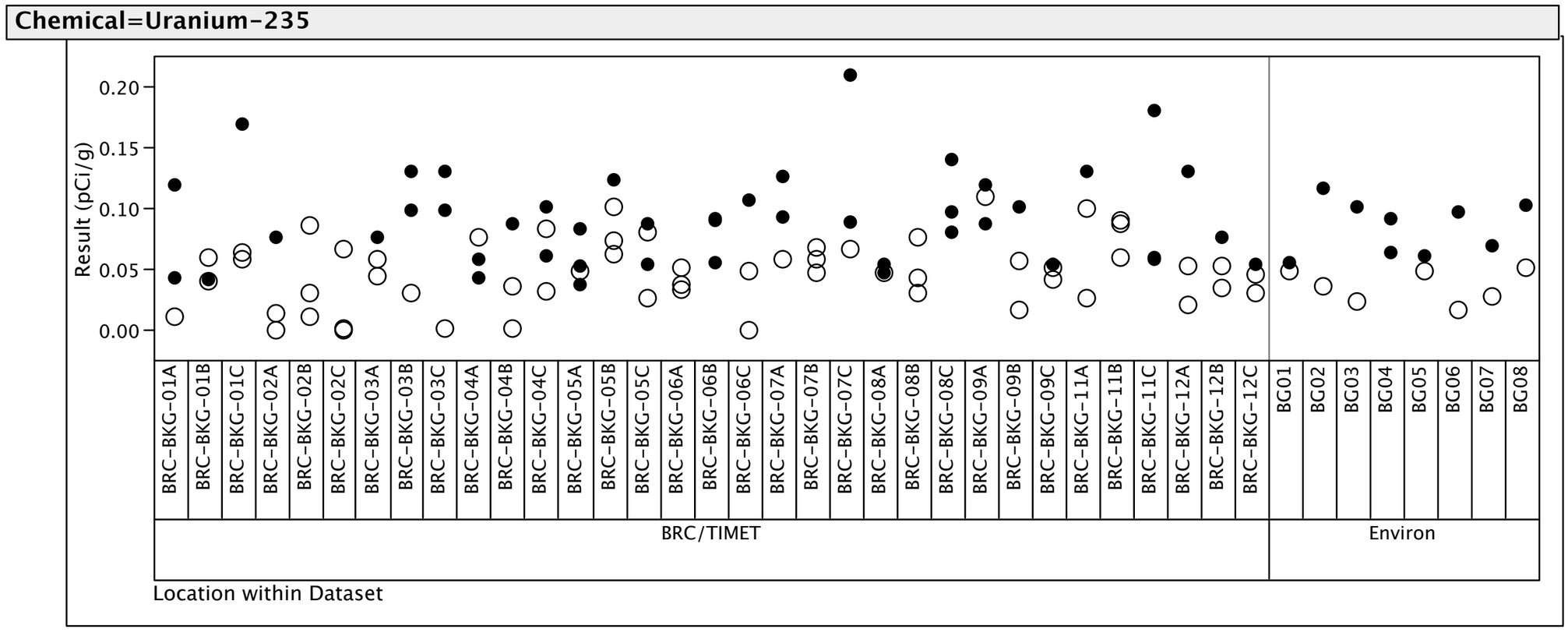
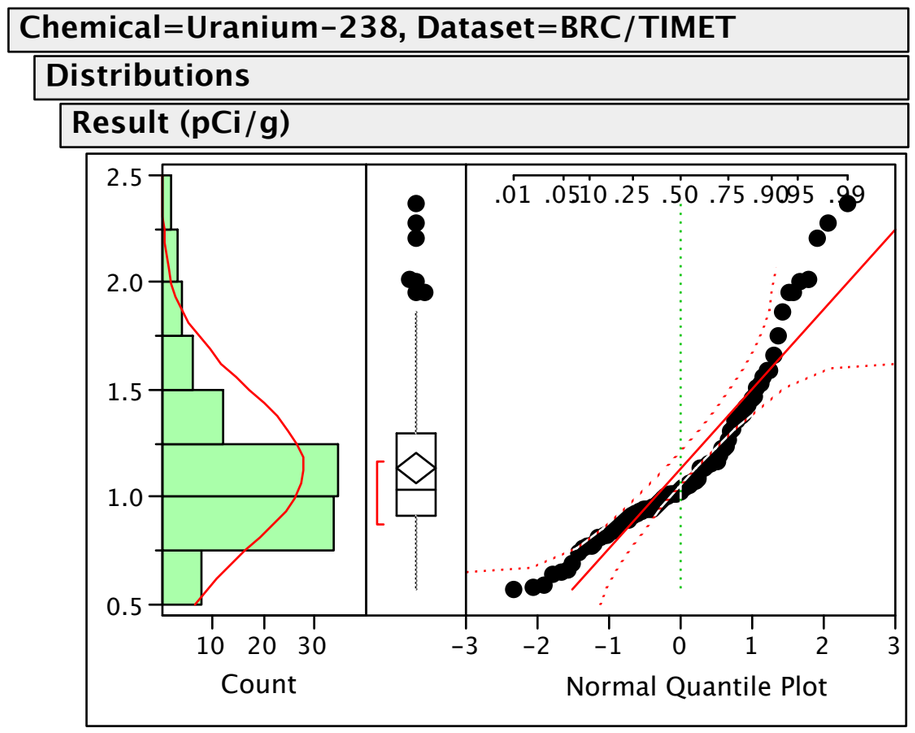
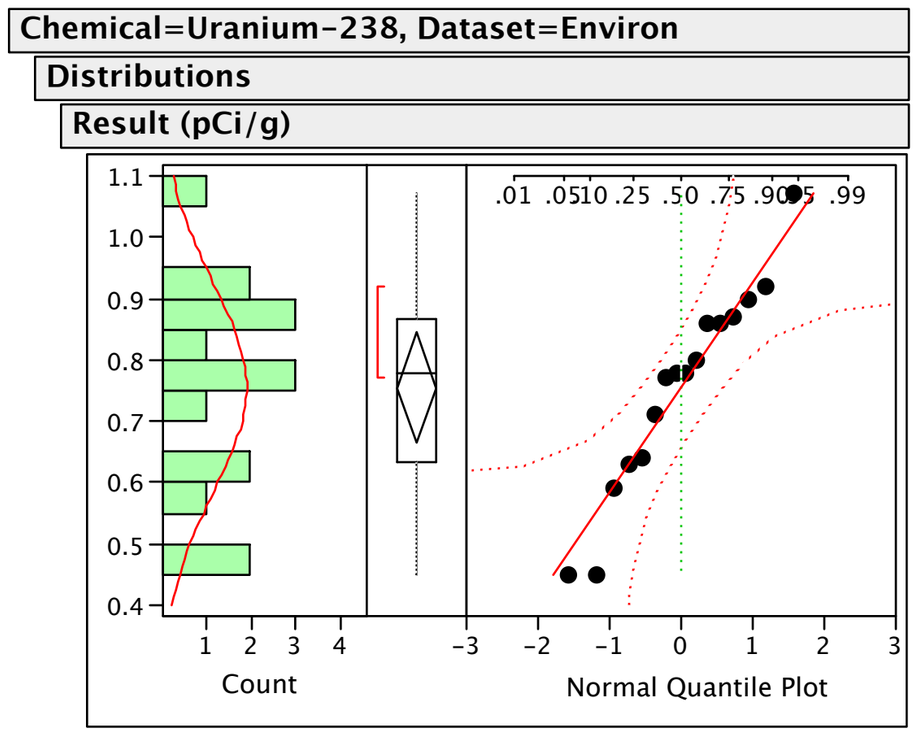
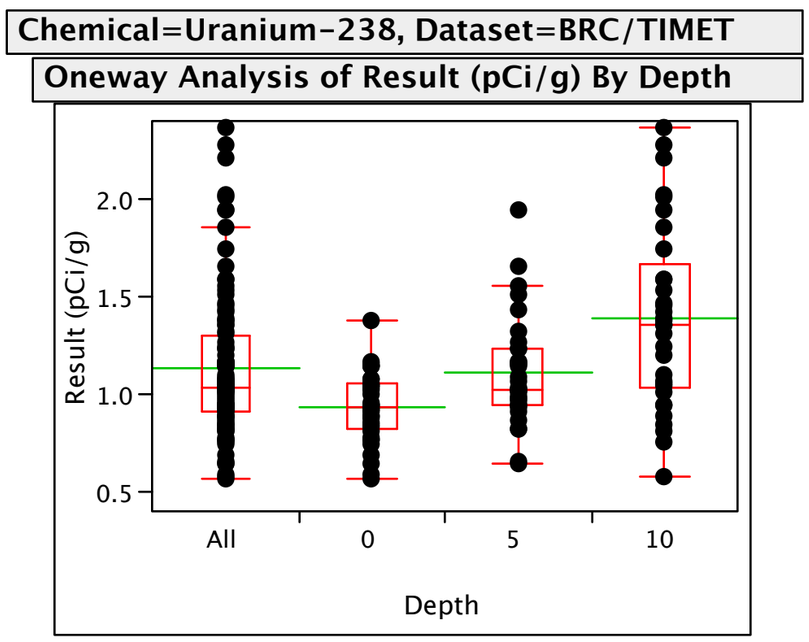


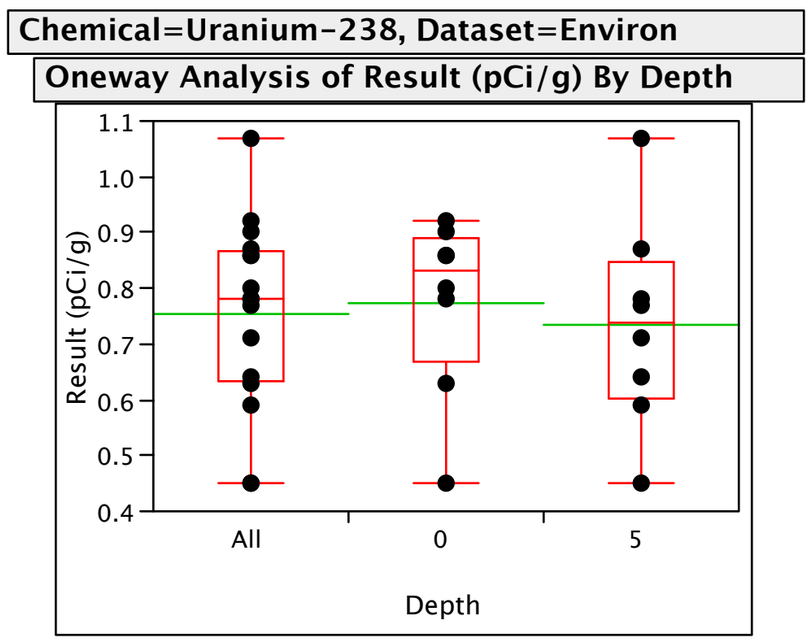
FIGURE F-2 (Continued)

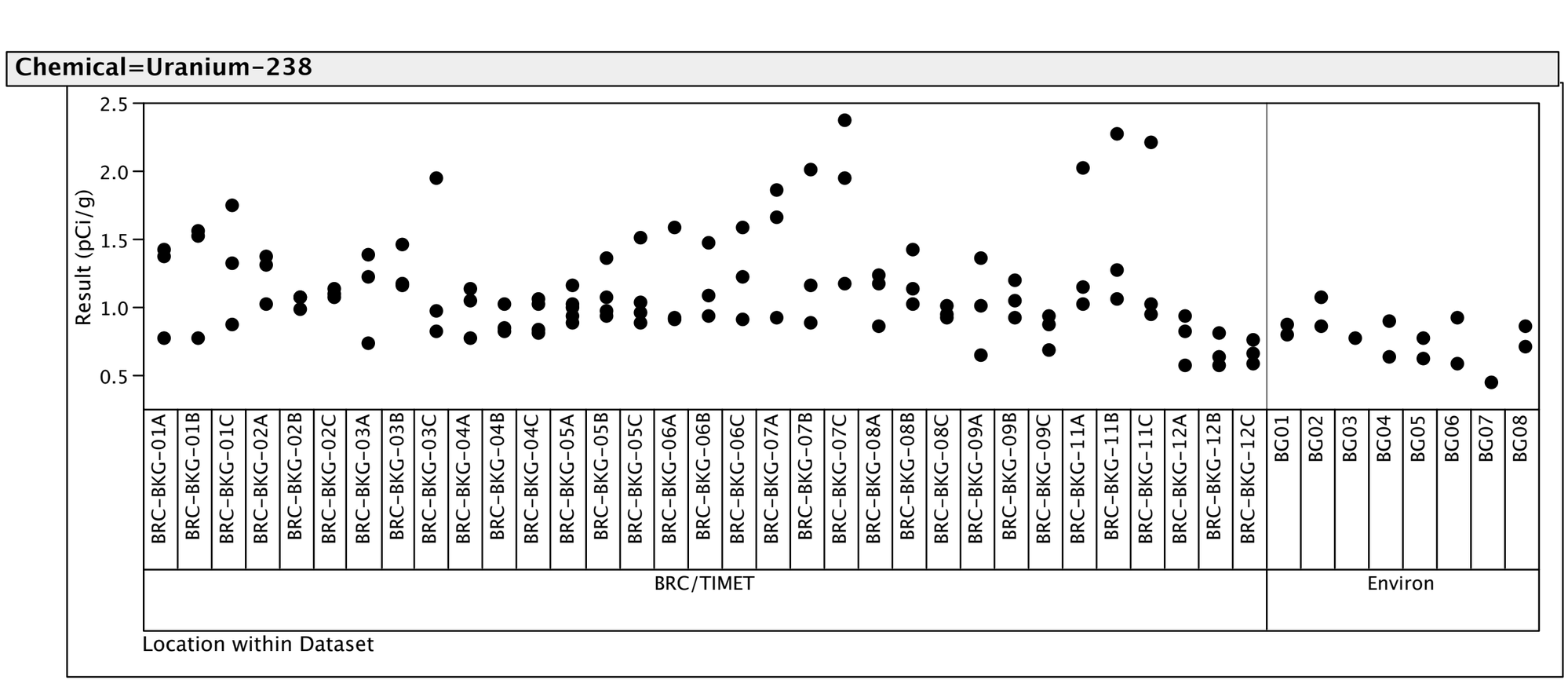
COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL











APPENDIX G

STATISTICAL SUMMARY FOR COMBINED BRC/TIMET AND ENVIRON DATA

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET/Environ Background Soil Samples (Table G-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0-Foot Background Soil Samples (Table G-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BTC/TIMET 5-Foot Background Soil Samples (Table G-3)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10-Foot Background Soil Samples (Table G-4)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10-Foot Background Soil Samples (Table G-5)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples (Table G-6)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ River Mountains Background Soil Samples (Table G-7)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples (Table G-8)

Statistical Comparison of Metals, Anions, and Radionuclides Data Collected From Various Depths in BRC/TIMET/Environ Background Soil Samples (Table G-9)

Statistical Comparison of Metals, Anions, and Radionuclides Data Collected From Various Origins in BRC/TIMET/Environ Background Soil Samples (Table G-10)

Distribution of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil (Figure G-1)

Distribution of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil (Figure G-2)

Comparison of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil by Depth (Figure G-3)

Comparison of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil by Depth (Figure G-4)

Comparison of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil by Origin (Figure G-5)

Comparison of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil by Origin (Figure G-6)

Table G-1. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	120	100	--	--	--	--	--	--	3,740	6,680	8,420	8,900	11,200	15,300
	Antimony	120	41	0.0394	0.33	0.33	0.264	0.33	0.33	0.12	0.15	0.22	0.239	0.29	0.5
	Arsenic	120	100	--	--	--	--	--	--	2.1	3.3	3.9	4.13	4.98	7.2
	Barium	120	100	--	--	--	--	--	--	73	144	190	223	238	836
	Beryllium	120	100	--	--	--	--	--	--	0.16	0.44	0.54	0.557	0.69	0.89
	Boron	104	33	3.2	3.2	3.65	3.79	4.3	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	120	13	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0928	0.105	0.106	0.128	0.16
	Calcium	104	100	--	--	--	--	--	--	8,160	17,400	23,700	28,100	35,500	82,800
	Chloride	104	69	0.25	0.79	1.1	1.29	1.6	6.2	1.2	6.48	33.6	170	248	1110
	Chromium	120	100	--	--	--	--	--	--	2.6	7	8.8	8.94	10.8	16.7
	Chromium Hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	120	100	--	--	--	--	--	--	3.7	6.33	8.25	8.23	9.78	16.3
	Copper	120	100	--	--	--	--	--	--	7.8	14.3	17.2	17.1	19.8	30.5
	Fluoride	104	13	0.051	0.051	0.051	0.325	0.55	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	120	100	--	--	--	--	--	--	5,410	10,400	13,100	12,800	15,100	19,700
	Lead	120	100	--	--	--	--	--	--	3	6.33	7.75	9.45	10.8	35.1
	Lithium	104	100	--	--	--	--	--	--	7.5	10.8	12.8	13.8	16.4	26.5
	Magnesium	120	100	--	--	--	--	--	--	4,580	6,910	9,430	9,510	11,700	17,500
	Manganese	120	100	--	--	--	--	--	--	151	343	419	425	497	1,090
	Mercury	120	78	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.013	0.019	0.0217	0.025	0.11
	Molybdenum	120	100	--	--	--	--	--	--	0.17	0.38	0.475	0.547	0.628	2
	Nickel	120	100	--	--	--	--	--	--	7.8	11.4	15.4	15.1	17.8	30
	Niobium	104	0	1.02	1.02	1.3	1.42	1.68	2.8	--	--	--	--	--	--
	Nitrate	104	87	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.49	0.995	8.75	5.03	102
	Nitrite	104	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	104	100	--	--	--	--	--	--	0.14	0.283	0.4	0.462	0.55	1.5
	Platinum	104	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosphorus	104	100	--	--	--	--	--	--	636	1,200	1,460	1,420	1,650	2,010
	Potassium	104	100	--	--	--	--	--	--	625	1,220	1,540	1,730	2,070	3,890
	Selenium	120	43	0.0467	0.158	0.158	0.151	0.158	0.158	0.1	0.23	0.29	0.294	0.358	0.6
	Silicon	104	100	--	--	--	--	--	--	335	562	720	981	1,080	4,150
	Silver	120	13	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0363	0.0445	0.0495	0.0683	0.083
	Sodium	104	100	--	--	--	--	--	--	111	203	452	486	690	1,320
	Strontium	104	100	--	--	--	--	--	--	69	134	186	223	258	808
	Sulfate	104	78	0.612	1.4	2.7	2.46	3.3	4.4	2.1	12.7	49.2	230	145	4,130
	Thallium	120	35	0.2	0.438	0.543	0.565	0.638	1.1	0.1	0.16	1.1	0.917	1.43	1.8
	Thorium	16	100	--	--	--	--	--	--	4.6	5.08	5.65	5.88	6.68	7.7
	Tin	103	100	0.187	--	0.187	0.187	--	0.187	0.2	0.4	0.49	0.48	0.56	0.8
	Titanium	120	100	--	--	--	--	--	--	200	392	504	510	618	1,010
	Tungsten	104	0	0.49	0.883	1.05	1.18	1.5	2.5	--	--	--	--	--	--
	Uranium	103	100	--	--	--	--	--	--	0.43	0.82	0.94	1	1.1	2.7
	Vanadium	120	100	--	--	--	--	--	--	14.6	25.6	35.6	35.4	43.6	59.1
	Zinc	120	100	--	--	--	--	--	--	15.4	28.5	37.2	37.2	43.2	121
	Zirconium	104	100	--	--	--	--	--	--	60.1	111	125	126	145	179

Table G-1. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Actinium-228	120	100	--	--	--	--	--	--	1.11	1.52	1.78	1.8	2.04	3.4
	Bismuth-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Bismuth 212	120	57	0.29	0.61	0.75	0.781	0.928	1.3	0.71	0.915	1.16	1.19	1.42	1.82
	Bismuth-214	120	100	--	--	--	--	--	--	0.52	0.8	0.925	0.95	1.08	1.62
	Cobalt-57	104	0	-0.045	-0.00975	0.00065	0.0000135	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	104	0	-0.073	-0.0178	0.003	0.00151	0.0223	0.082	--	--	--	--	--	--
	Lead-210	120	2	-0.6	0.3	0.615	0.702	1.1	2.2	1.9	--	2.05	2.05	--	2.2
	Lead-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Lead-212	120	100	--	--	--	--	--	--	0.94	1.28	1.47	1.5	1.72	2.11
	Lead-214	120	100	--	--	--	--	--	--	0.61	0.83	0.93	0.967	1.07	1.72
	Polonium-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	104	62	0.19	0.383	0.45	0.48	0.58	0.78	0.46	0.58	0.72	0.753	0.898	1.17
	Polonium-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Polonium-215	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Polonium-216	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Polonium-218	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Potassium-40	120	100	--	--	--	--	--	--	17.8	22.8	24.5	25.2	27.2	35
	Protactinium-234	104	0	-0.34	-0.14	-0.08	-0.0784	-0.0125	0.13	--	--	--	--	--	--
	Radium-223	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Radium-224	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Radium 226	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Radium 228	84	81	0.946	1.38	1.57	1.58	1.85	2	1.15	1.73	2.04	1.99	2.21	2.94
	Thallium-207	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thallium-208	120	100	--	--	--	--	--	--	0.33	0.48	0.54	0.541	0.608	0.72
	Thorium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thorium-228	120	100	--	--	--	--	--	--	1.07	1.47	1.71	1.69	1.91	2.28
	Thorium-230	120	100	--	--	--	--	--	--	0.66	0.98	1.19	1.25	1.41	3.01
	Thorium-231	104	11	0	0.0405	0.058	0.0613	0.085	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	120	100	--	--	--	--	--	--	1.05	1.4	1.57	1.61	1.81	2.23
	Thorium-234	120	54	-0.53	0.32	0.71	0.609	0.92	1.39	1.11	1.39	1.6	1.64	1.84	2.5
	Uranium 233/234	120	51	0.47	0.79	0.9	0.903	1.02	1.17	0.53	0.905	1.21	1.31	1.66	2.84
	Uranium 235	120	45	0	0.0295	0.0475	0.0462	0.0605	0.11	0.037	0.0588	0.088	0.0901	0.109	0.21
	Uranium-238	120	100	--	--	--	--	--	--	0.45	0.86	1.02	1.08	1.22	2.37

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table G-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	45	100	--	--	--	--	--	--	5,530	7,230	9,950	9,730	11,800	13,900
	Antimony	45	58	0.0394	0.0394	0.33	0.208	0.33	0.33	0.12	0.2	0.245	0.278	0.365	0.5
	Arsenic	45	100	--	--	--	--	--	--	2.1	3	3.7	4.13	5.3	7.2
	Barium	45	100	--	--	--	--	--	--	90.4	148	190	219	228	604
	Beryllium	45	100	--	--	--	--	--	--	0.16	0.41	0.61	0.585	0.765	0.89
	Boron	37	43	3.2	3.2	3.2	3.6	3.9	4.9	5.2	5.73	6.1	6.96	8.1	11.6
	Cadmium	45	18	0.129	0.129	0.129	0.129	0.129	0.129	0.092	0.102	0.11	0.119	0.138	0.16
	Calcium	37	100	--	--	--	--	--	--	10,900	16,000	19,500	21,600	26,200	43,200
	Chloride	37	35	0.25	0.775	0.985	1.06	1.48	1.8	1.2	1.65	4.1	42.8	28.2	252
	Chromium	45	100	--	--	--	--	--	--	3.6	7.9	10.8	10.4	13	16.7
	Chromium Hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	45	100	--	--	--	--	--	--	4.1	7.15	8.8	8.46	9.55	14.6
	Copper	45	100	--	--	--	--	--	--	8.1	16	18.5	17.8	19.8	25.9
	Fluoride	37	5	0.051	0.051	0.051	0.114	0.051	0.61	0.37	--	0.735	0.735	--	1.1
	Iron	45	100	--	--	--	--	--	--	8,960	12,000	14,400	14,000	16,500	19,700
	Lead	45	100	--	--	--	--	--	--	6	9.05	10.9	13	16.1	35.1
	Lithium	37	100	--	--	--	--	--	--	7.5	9.85	12.4	13.7	17.8	23.9
	Magnesium	45	100	--	--	--	--	--	--	4,880	8,420	9,750	10,100	12,200	17,500
	Manganese	45	100	--	--	--	--	--	--	263	406	455	472	509	1,090
	Mercury	45	89	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0091	0.016	0.021	0.0236	0.0285	0.082
	Molybdenum	45	100	--	--	--	--	--	--	0.27	0.36	0.45	0.524	0.71	1.1
	Nickel	45	100	--	--	--	--	--	--	8.4	13.8	16.6	16.5	18.5	30
	Niobium	37	0	1.02	1.06	1.3	1.52	1.8	2.8	--	--	--	--	--	--
	Nitrate	37	62	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.26	0.45	3.73	1.5	53.4
	Nitrite	37	14	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	37	100	--	--	--	--	--	--	0.19	0.245	0.29	0.355	0.375	1.5
	Platinum	37	3	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.082	--	0.082	0.082	--	0.082
	Phosphorus	37	100	--	--	--	--	--	--	636	1,300	1,520	1,470	1,630	1,990
	Potassium	37	100	--	--	--	--	--	--	1,240	1,600	1,840	2,240	2,870	3,890
	Selenium	45	62	0.0467	0.158	0.158	0.145	0.158	0.158	0.11	0.23	0.3	0.306	0.355	0.6
	Silicon	37	100	--	--	--	--	--	--	335	597	844	1,390	1,900	4,150
	Silver	45	18	0.261	0.261	0.261	0.261	0.261	0.261	0.036	0.0363	0.05	0.0526	0.0683	0.083
	Sodium	37	100	--	--	--	--	--	--	111	146	166	248	323	693
	Strontium	37	100	--	--	--	--	--	--	86.8	119	143	168	170	808
	Sulfate	37	46	0.612	1.25	2.45	2.35	3.25	4.4	2.1	3.95	15.9	124	120	857
	Thallium	45	44	0.2	0.52	0.59	0.61	0.745	1	0.13	0.165	1.1	0.876	1.4	1.7
	Thorium	8	100	--	--	--	--	--	--	5	5.08	6.1	5.95	6.68	7
	Tin	37	100	--	--	--	--	--	--	0.28	0.505	0.55	0.551	0.62	0.8
	Titanium	45	100	--	--	--	--	--	--	244	442	535	535	633	936
	Tungsten	37	0	0.49	0.875	1	1.13	1.4	2.5	--	--	--	--	--	--
	Uranium	37	100	--	--	--	--	--	--	0.43	0.795	0.89	0.913	1	1.8
	Vanadium	45	100	--	--	--	--	--	--	15.7	25.4	35	35.2	42.8	57.3
	Zinc	45	100	--	--	--	--	--	--	24.8	35.5	42.2	44	49.5	121
	Zirconium	37	100	--	--	--	--	--	--	60.1	115	123	125	141	176

Table G-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Actinium-228	45	100	--	--	--	--	--	--	1.17	1.48	1.79	1.79	2.05	2.53
	Bismuth-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Bismuth-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Bismuth 212	45	56	0.29	0.61	0.82	0.803	0.968	1.24	0.71	0.855	1.07	1.14	1.4	1.82
	Bismuth-214	45	100	--	--	--	--	--	--	0.6	0.77	0.9	0.892	0.955	1.26
	Cobalt-57	37	0	-0.031	-0.009	0.007	0.00249	0.0135	0.03	--	--	--	--	--	--
	Cobalt-60	37	0	-0.073	-0.025	-0.004	-0.00768	0.0115	0.044	--	--	--	--	--	--
	Lead-210	45	0	-0.3	0.45	0.8	0.896	1.5	2.2	--	--	--	--	--	--
	Lead-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Lead-212	45	100	--	--	--	--	--	--	0.94	1.3	1.47	1.5	1.74	1.98
	Lead-214	45	100	--	--	--	--	--	--	0.68	0.825	0.88	0.909	0.975	1.19
	Polonium-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Polonium-212	37	59	0.19	0.38	0.45	0.489	0.6	0.73	0.46	0.538	0.65	0.709	0.878	1.16
	Polonium-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Polonium-215	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Polonium-216	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Polonium-218	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Potassium-40	45	100	--	--	--	--	--	--	20.3	23.4	24.5	25.3	27.6	34.4
	Protactinium-234	37	0	-0.34	-0.155	-0.11	-0.0942	-0.025	0.12	--	--	--	--	--	--
	Radium-223	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Radium-224	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Radium 226	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Radium 228	30	77	1.11	1.34	1.78	1.61	1.86	1.93	1.28	1.85	2.03	2.03	2.34	2.94
	Thallium-207	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thallium-208	45	100	--	--	--	--	--	--	0.41	0.49	0.53	0.554	0.615	0.72
	Thorium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thorium-228	45	100	--	--	--	--	--	--	1.15	1.52	1.76	1.74	1.93	2.28
	Thorium-230	45	100	--	--	--	--	--	--	0.72	0.925	1.15	1.11	1.25	1.7
	Thorium-231	37	8	0	0.0375	0.059	0.0603	0.077	0.13	0.054	0.054	0.09	0.0803	0.097	0.097
	Thorium-232	45	100	--	--	--	--	--	--	1.13	1.49	1.71	1.68	1.83	2.23
	Thorium-234	45	49	-0.26	0.51	0.71	0.625	0.83	1.21	1.12	1.41	1.7	1.64	1.85	2.07
	Uranium 233/234	45	38	0.47	0.783	0.85	0.868	0.995	1.16	0.53	0.71	0.93	0.911	1.12	1.23
	Uranium 235	45	44	0	0.03	0.048	0.046	0.065	0.11	0.042	0.0553	0.083	0.0825	0.102	0.13
	Uranium-238	45	100	--	--	--	--	--	--	0.45	0.79	0.91	0.905	1.04	1.38

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	42	100	--	--	--	--	--	--	4,840	6,530	7,770	8,550	10,900	15,300
	Antimony	42	26	0.0394	0.0394	0.33	0.255	0.33	0.33	0.13	0.14	0.17	0.194	0.23	0.35
	Arsenic	42	100	--	--	--	--	--	--	2.3	3.25	3.7	3.86	4.43	6.1
	Barium	42	100	--	--	--	--	--	--	73	143	215	230	273	561
	Beryllium	42	100	--	--	--	--	--	--	0.25	0.44	0.5	0.528	0.625	0.77
	Boron	34	29	3.2	3.2	3.5	3.72	4.1	4.8	5.4	5.88	6.8	7.08	8.5	9.1
	Cadmium	42	19	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0678	0.096	0.0931	0.115	0.14
	Calcium	34	100	--	--	--	--	--	--	8,160	15,800	22,600	29,300	37,600	82,800
	Chloride	34	82	0.25	0.708	1.65	1.34	1.8	1.8	1.3	3.3	41.9	220	319	1,060
	Chromium	42	100	--	--	--	--	--	--	3.1	6.35	7.7	7.94	9.73	12.1
	Chromium Hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	42	100	--	--	--	--	--	--	3.9	6	7.3	7.78	9.7	14.8
	Copper	42	100	--	--	--	--	--	--	7.8	12.9	15.4	16.1	19.9	30.5
	Fluoride	34	15	0.051	0.051	0.051	0.45	0.765	2.1	0.31	0.335	0.67	0.614	0.865	0.94
	Iron	42	100	--	--	--	--	--	--	6,350	9,420	12,100	12,200	14,500	18,800
	Lead	42	100	--	--	--	--	--	--	4.9	6.48	7.1	8.13	9.23	23.3
	Lithium	34	100	--	--	--	--	--	--	8.5	10.5	11.7	12.6	14.6	21.3
	Magnesium	42	100	--	--	--	--	--	--	4,580	5,620	8,080	8,330	11,000	13,600
	Manganese	42	100	--	--	--	--	--	--	183	304	375	405	496	863
	Mercury	42	69	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.013	0.018	0.0183	0.0225	0.034
	Molybdenum	42	100	--	--	--	--	--	--	0.17	0.345	0.445	0.523	0.58	2
	Nickel	42	100	--	--	--	--	--	--	7.8	10.7	13.1	13.9	16.6	22.7
	Niobium	34	0	1.02	1.02	1.35	1.48	1.8	2.8	--	--	--	--	--	--
	Nitrate	34	100	--	--	--	--	--	--	0.13	0.645	1.3	14.8	13.7	102
	Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	34	100	--	--	--	--	--	--	0.14	0.315	0.435	0.433	0.528	0.84
	Platinum	34	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	--	0.072	0.072	--	0.099
	Phosphorus	34	100	--	--	--	--	--	--	842	1,160	1,470	1,410	1,720	2,010
	Potassium	34	100	--	--	--	--	--	--	872	1,110	1,370	1,610	2,090	3,260
	Selenium	42	40	0.0467	0.158	0.158	0.149	0.158	0.158	0.1	0.185	0.28	0.266	0.355	0.4
	Silicon	34	100	--	--	--	--	--	--	399	536	721	743	859	1,360
	Silver	42	19	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0278	0.044	0.0464	0.069	0.077
	Sodium	34	100	--	--	--	--	--	--	179	389	503	574	734	1,320
	Strontium	34	100	--	--	--	--	--	--	69	152	210	206	254	441
	Sulfate	34	91	2.2	2.2	3.1	3.23	4.4	4.4	4.3	9	84.4	228	182	3,240
	Thallium	42	36	0.25	0.48	0.543	0.575	0.61	1.1	0.1	0.15	0.4	0.781	1.4	1.8
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Tin	34	100	--	--	--	--	--	--	0.2	0.4	0.445	0.455	0.53	0.75
	Titanium	42	100	--	--	--	--	--	--	213	358	477	497	613	1,010
	Tungsten	34	0	0.64	0.87	1.05	1.21	1.58	2.2	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.67	0.805	1	0.963	1.1	1.3
	Vanadium	42	100	--	--	--	--	--	--	14.6	25.2	33.5	33.7	42.6	59.1
	Zinc	42	100	--	--	--	--	--	--	17.6	25.9	33.6	34.1	41.9	52.4
	Zirconium	34	100	--	--	--	--	--	--	78.9	115	133	132	148	179

Table G-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Actinium-228	42	100	--	--	--	--	--	--	1.11	1.63	1.82	1.85	2.06	2.66
	Bismuth-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Bismuth-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	42	55	0.31	0.63	0.82	0.804	0.95	1.3	0.72	0.93	1.16	1.19	1.4	1.82
	Bismuth-214	42	100	--	--	--	--	--	--	0.57	0.795	0.945	0.948	1.08	1.48
	Cobalt-57	34	0	-0.045	-0.0158	-0.004	-0.00611	0.006	0.022	--	--	--	--	--	--
	Cobalt-60	34	0	-0.055	-0.0185	-0.0035	0.00174	0.023	0.071	--	--	--	--	--	--
	Lead-210	42	2	-0.5	0	0.36	0.538	0.92	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Lead-212	42	100	--	--	--	--	--	--	1	1.25	1.44	1.46	1.67	1.93
	Lead-214	42	100	--	--	--	--	--	--	0.62	0.8	0.885	0.933	1.04	1.72
	Polonium-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Polonium-212	34	65	0.34	0.363	0.515	0.493	0.558	0.78	0.46	0.588	0.73	0.749	0.883	1.17
	Polonium-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Polonium-215	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Polonium-216	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Polonium-218	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Potassium-40	42	100	--	--	--	--	--	--	17.8	22.9	25.2	25.6	28.1	35
	Protactinium-234	34	0	-0.31	-0.153	-0.085	-0.0835	-0.00275	0.06	--	--	--	--	--	--
	Radium-223	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Radium-224	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Radium 226	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Radium 228	29	83	1.35	1.41	1.5	1.58	1.8	2	1.15	1.62	2.04	1.94	2.28	2.42
	Thallium-207	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thallium-208	42	100	--	--	--	--	--	--	0.33	0.475	0.57	0.537	0.6	0.66
	Thorium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thorium-228	42	100	--	--	--	--	--	--	1.07	1.52	1.76	1.72	1.96	2.15
	Thorium-230	42	100	--	--	--	--	--	--	0.75	1.05	1.16	1.21	1.37	2.44
	Thorium-231	34	9	0.0009	0.034	0.053	0.058	0.084	0.13	0.047	0.047	0.052	0.0513	0.055	0.055
	Thorium-232	42	100	--	--	--	--	--	--	1.1	1.4	1.56	1.6	1.79	2.06
	Thorium-234	42	43	-0.53	0.32	0.73	0.57	0.943	1.23	1.24	1.39	1.61	1.67	1.87	2.3
	Uranium 233/234	42	55	0.75	0.77	0.92	0.934	1.05	1.16	0.53	0.81	1.15	1.17	1.27	2.44
	Uranium 235	42	43	0.0009	0.024	0.044	0.0427	0.0578	0.09	0.043	0.055	0.0785	0.08	0.0988	0.13
	Uranium-238	42	100	--	--	--	--	--	--	0.45	0.858	1.02	1.04	1.17	1.95

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	33	100	--	--	--	--	--	--	3,740	6,340	7,880	8,210	10,300	13,300
	Antimony	33	36	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.133	0.155	0.198	0.25	0.41
	Arsenic	33	100	--	--	--	--	--	--	3.1	3.7	4.2	4.47	5.35	6.7
	Barium	33	100	--	--	--	--	--	--	82.5	138	171	218	203	836
	Beryllium	33	100	--	--	--	--	--	--	0.29	0.45	0.53	0.555	0.635	0.89
	Boron	33	24	3.2	3.45	4	4.02	4.4	5.1	5.5	5.9	7.4	7.45	8.58	10.2
	Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	33	100	--	--	--	--	--	--	17,900	22,200	32,000	34,300	45,000	70,200
	Chloride	33	94	1.6	--	3.9	3.9	--	6.2	4.1	22.9	37.7	179	263	1,110
	Chromium	33	100	--	--	--	--	--	--	2.6	6.8	8.2	8.15	9.5	14.1
	Chromium Hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	33	100	--	--	--	--	--	--	3.7	5.95	8.9	8.46	10.2	16.3
	Copper	33	100	--	--	--	--	--	--	10.2	14.6	17	17.2	19.9	23.9
	Fluoride	33	18	0.051	0.051	0.23	0.463	0.79	1.6	0.16	0.273	0.48	0.783	1.2	2.5
	Iron	33	100	--	--	--	--	--	--	5,410	9,180	12,300	11,900	14,500	19,100
	Lead	33	100	--	--	--	--	--	--	3	5.45	6	6.28	7	11.7
	Lithium	33	100	--	--	--	--	--	--	9.9	11.8	13.4	15.3	17.4	26.5
	Magnesium	33	100	--	--	--	--	--	--	5,240	6,510	10,900	10,200	12,700	16,900
	Manganese	33	100	--	--	--	--	--	--	151	309	398	386	467	641
	Mercury	33	73	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0092	0.011	0.014	0.0225	0.0188	0.11
	Molybdenum	33	100	--	--	--	--	--	--	0.33	0.44	0.54	0.608	0.645	1.9
	Nickel	33	100	--	--	--	--	--	--	7.9	11.4	14.7	14.8	18	22.1
	Niobium	33	0	1.02	1.02	1.1	1.25	1.45	2	--	--	--	--	--	--
	Nitrate	33	100	--	--	--	--	--	--	0.11	0.655	1.5	5.99	4.9	42.1
	Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	33	100	--	--	--	--	--	--	0.25	0.395	0.55	0.61	0.84	1.2
	Platinum	33	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.064	--	0.064	0.064	--	0.064
	Phosphorus	33	100	--	--	--	--	--	--	722	1,070	1,370	1,350	1,640	1,960
	Potassium	33	100	--	--	--	--	--	--	625	942	1,250	1,290	1,400	2,270
	Selenium	33	21	0.158	0.158	0.158	0.158	0.158	0.158	0.26	0.27	0.29	0.313	0.39	0.4
	Silicon	33	100	--	--	--	--	--	--	423	562	680	764	893	1,380
	Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	33	100	--	--	--	--	--	--	196	512	662	661	809	1,190
	Strontium	33	100	--	--	--	--	--	--	114	188	258	302	407	684
	Sulfate	33	100	--	--	--	--	--	--	8.6	20.3	49.8	286	132	4,130
	Thallium	33	21	0.21	0.38	0.5428	0.5124	0.5521	0.95	1.1	1.2	1.2	1.33	1.5	1.6
	Tin	33	97	0.187	--	0.187	0.187	--	0.187	0.21	0.363	0.405	0.423	0.51	0.63
	Titanium	33	100	--	--	--	--	--	--	200	394	490	493	607	858
	Tungsten	33	0	0.51	0.88	1.1	1.2	1.5	2.1	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.68	0.865	0.95	1.14	1.3	2.7
	Vanadium	33	100	--	--	--	--	--	--	19.2	29.7	38.8	37.9	45.9	57.5
	Zinc	33	100	--	--	--	--	--	--	15.4	23.4	34.1	31.9	39.8	51.7
	Zirconium	33	100	--	--	--	--	--	--	68.4	102	123	122	147	177

Table G-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Actinium-228	33	100	--	--	--	--	--	--	1.18	1.44	1.71	1.77	2	3.4
	Bismuth-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Bismuth 212	33	61	0.52	0.59	0.65	0.715	0.75	1.22	0.83	1.07	1.3	1.26	1.45	1.69
	Bismuth-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Cobalt-57	33	0	-0.032	-0.005	0.002	0.00354	0.0135	0.04	--	--	--	--	--	--
	Cobalt-60	33	0	-0.042	-0.013	0.011	0.0116	0.03	0.082	--	--	--	--	--	--
	Lead-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Lead-212	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Lead-214	33	100	--	--	--	--	--	--	0.61	0.87	1.01	1.09	1.24	1.68
	Polonium-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	33	61	0.33	0.38	0.42	0.458	0.48	0.78	0.53	0.685	0.835	0.806	0.925	1.08
	Polonium-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Polonium-215	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Polonium-216	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Polonium-218	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Potassium-40	33	100	--	--	--	--	--	--	18.4	22.2	24.5	24.5	26.3	31.1
	Protactinium-234	33	0	-0.25	-0.105	-0.04	-0.0555	-0.01	0.13	--	--	--	--	--	--
	Radium-223	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Radium-224	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Radium 226	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Radium 228	25	84	0.946	1.1	1.62	1.52	1.85	1.91	1.34	1.75	2.04	2.02	2.18	2.92
	Thallium-207	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thallium-208	33	100	--	--	--	--	--	--	0.37	0.425	0.53	0.526	0.605	0.72
	Thorium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thorium-228	33	100	--	--	--	--	--	--	1.16	1.38	1.5	1.57	1.83	2.13
	Thorium-230	33	100	--	--	--	--	--	--	0.66	1.01	1.5	1.47	1.68	3.01
	Thorium-231	33	15	0	0.0438	0.06	0.0662	0.087	0.17	0.092	0.0995	0.126	0.143	0.195	0.21
	Thorium-232	33	100	--	--	--	--	--	--	1.05	1.34	1.5	1.55	1.78	2.1
	Thorium-234	33	76	0.24	0.31	0.605	0.68	1	1.39	1.11	1.36	1.55	1.61	1.8	2.5
	Uranium 233/234	33	64	0.58	0.853	0.955	0.937	1.06	1.17	1.13	1.28	1.84	1.79	2.01	2.84
	Uranium 235	33	48	0	0.036	0.053	0.0514	0.068	0.102	0.037	0.087	0.1	0.111	0.138	0.21
	Uranium-238	33	100	--	--	--	--	--	--	0.58	1.03	1.36	1.39	1.67	2.37

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	75	100	--	--	--	--	--	--	3,740	6,470	7,880	8,400	10,800	15,300
	Antimony	75	31	0	0.33	0.33	0.285	0.33	0.33	0.12	0.14	0.16	0.196	0.25	0.41
	Arsenic	75	100	--	--	--	--	--	--	2.3	3.4	3.9	4.13	4.8	6.7
	Barium	75	100	--	--	--	--	--	--	73	142	188	225	245	836
	Beryllium	75	100	--	--	--	--	--	--	0.25	0.44	0.5	0.54	0.63	0.89
	Boron	67	27	3.2	3.2	3.8	3.88	4.4	5.1	5.4	5.88	6.95	7.24	8.53	10.2
	Cadmium	75	11	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0678	0.096	0.0931	0.115	0.14
	Calcium	67	100	--	--	--	--	--	--	8,160	18,800	28,800	31,800	42,500	82,800
	Chloride	67	88	0.25	1.05	1.65	1.98	1.8	6.2	1.3	17.7	37.7	199	278	1,110
	Chromium	75	100	--	--	--	--	--	--	2.6	6.4	8.1	8.03	9.6	14.1
	Chromium Hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	75	100	--	--	--	--	--	--	3.7	6	7.9	8.08	10	16.3
	Copper	75	100	--	--	--	--	--	--	7.8	13.6	16.1	16.6	19.8	30.5
	Fluoride	67	16	0.051	0.051	0.141	0.456	0.768	2.1	0.16	0.31	0.5	0.706	0.79	2.5
	Iron	75	100	--	--	--	--	--	--	5,410	9,370	12,300	12,100	14,500	19,100
	Lead	75	100	--	--	--	--	--	--	3	5.9	6.7	7.32	7.8	23.3
	Lithium	67	100	--	--	--	--	--	--	8.5	11.2	12.8	13.9	15.8	26.5
	Magnesium	75	100	--	--	--	--	--	--	4,580	5,990	9,360	9,150	11,600	16,900
	Manganese	75	100	--	--	--	--	--	--	151	304	383	397	488	863
	Mercury	75	71	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.015	0.0202	0.0215	0.11
	Molybdenum	75	100	--	--	--	--	--	--	0.17	0.38	0.49	0.56	0.61	2
	Nickel	75	100	--	--	--	--	--	--	7.8	11.2	13.8	14.3	17.5	22.7
	Niobium	67	0	1.02	1.02	1.3	1.37	1.6	2.8	--	--	--	--	--	--
	Nitrate	67	100	--	--	--	--	--	--	0.11	0.65	1.5	10.5	6.6	102
	Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	67	100	--	--	--	--	--	--	0.14	0.34	0.49	0.52	0.7	1.2
	Platinum	67	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0498	0.064	0.068	0.0903	0.099
	Phosphorus	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Potassium	67	100	--	--	--	--	--	--	625	1,080	1,310	1,450	1,780	3,260
	Selenium	75	32	0.0467	0.158	0.158	0.154	0.158	0.158	0.1	0.238	0.285	0.28	0.358	0.4
	Silicon	67	100	--	--	--	--	--	--	399	543	690	753	883	1,380
	Silver	75	11	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0278	0.044	0.0464	0.069	0.077
	Sodium	67	100	--	--	--	--	--	--	179	432	615	617	784	1,320
	Strontium	67	100	--	--	--	--	--	--	69	160	219	253	342	684
	Sulfate	67	96	2.2	2.2	3.1	3.23	4.4	4.4	4.3	17.8	62.5	258	157	4,130
	Thallium	75	29	0.21	0.4	0.543	0.544	0.59	1.1	0.1	0.158	1.15	0.955	1.5	1.8
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Tin	67	99	0.187	--	0.187	0.187	--	0.187	0.2	0.388	0.435	0.44	0.52	0.75
	Titanium	75	100	--	--	--	--	--	--	200	368	490	495	600	1,010
	Tungsten	67	0	0.51	0.88	1.1	1.21	1.5	2.2	--	--	--	--	--	--
	Uranium	66	100	--	--	--	--	--	--	0.67	0.84	0.995	1.05	1.2	2.7
	Vanadium	75	100	--	--	--	--	--	--	14.6	25.5	35.9	35.6	44.4	59.1
	Zinc	75	100	--	--	--	--	--	--	15.4	25.5	34.1	33.2	40.3	52.4
	Zirconium	67	100	--	--	--	--	--	--	68.4	107	126	127	148	179

Table G-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Actinium-228	75	100	--	--	--	--	--	--	1.11	1.55	1.76	1.82	2.04	3.4
	Bismuth-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Bismuth 212	75	57	0.31	0.605	0.75	0.768	0.895	1.3	0.72	0.99	1.22	1.22	1.42	1.82
	Bismuth-214	75	100	--	--	--	--	--	--	0.52	0.81	0.97	0.984	1.14	1.62
	Cobalt-57	67	0	-0.045	-0.01	-0.0009	-0.00136	0.011	0.04	--	--	--	--	--	--
	Cobalt-60	67	0	-0.055	-0.017	0.007	0.00658	0.026	0.082	--	--	--	--	--	--
	Lead-210	75	3	-0.6	0.2	0.6	0.582	0.905	2.2	1.9	--	2.05	2.05	--	2.2
	Lead-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Lead-212	75	100	--	--	--	--	--	--	1	1.26	1.45	1.49	1.71	2.11
	Lead-214	75	100	--	--	--	--	--	--	0.61	0.83	0.97	1	1.13	1.72
	Polonium-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	67	63	0.33	0.38	0.45	0.474	0.545	0.78	0.46	0.63	0.765	0.776	0.903	1.17
	Polonium-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Polonium-215	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Polonium-216	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Polonium-218	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Potassium-40	75	100	--	--	--	--	--	--	17.8	22.6	24.5	25.1	27	35
	Protactinium-234	67	0	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13	--	--	--	--	--	--
	Radium-223	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Radium-224	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Radium 226	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Radium 228	54	83	0.946	1.41	1.55	1.56	1.8	2	1.15	1.71	2.04	1.98	2.21	2.92
	Thallium-207	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thallium-208	75	100	--	--	--	--	--	--	0.33	0.45	0.54	0.532	0.6	0.72
	Thorium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thorium-228	75	100	--	--	--	--	--	--	1.07	1.41	1.66	1.66	1.9	2.15
	Thorium-230	75	100	--	--	--	--	--	--	0.66	1.04	1.21	1.33	1.56	3.01
	Thorium-231	67	12	0	0.041	0.058	0.0619	0.087	0.17	0.047	0.0528	0.0995	0.109	0.167	0.21
	Thorium-232	75	100	--	--	--	--	--	--	1.05	1.36	1.52	1.58	1.78	2.1
	Thorium-234	75	57	-0.53	0.32	0.73	0.598	0.943	1.39	1.11	1.37	1.58	1.63	1.8	2.5
	Uranium 233/234	75	59	0.58	0.83	0.94	0.935	1.05	1.17	0.53	1.09	1.26	1.46	1.89	2.84
	Uranium 235	75	45	0	0.027	0.047	0.0463	0.06	0.102	0.037	0.0603	0.088	0.0945	0.12	0.21
	Uranium-238	75	100	--	--	--	--	--	--	0.45	0.93	1.07	1.19	1.42	2.37

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-6. Descriptive Summary Statistics for Metals, Anions. and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	101	100	--	--	--	--	--	--	3,740	6,810	8,470	9,130	11,500	15,300
	Antimony	101	43	0.0394	0.33	0.33	0.3	0.33	0.33	0.12	0.15	0.22	0.241	0.29	0.5
	Arsenic	101	100	--	--	--	--	--	--	2.1	3.35	3.9	4.11	4.9	7.2
	Barium	101	100	--	--	--	--	--	--	73	141	175	182	217	465
	Beryllium	101	100	--	--	--	--	--	--	0.16	0.45	0.54	0.581	0.725	0.89
	Boron	95	36	3.2	3.2	3.7	3.81	4.35	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	101	6	0.129	0.129	0.129	0.129	0.129	0.129	0.095	0.0965	0.105	0.115	0.138	0.16
	Calcium	95	100	--	--	--	--	--	--	9,440	18,400	24,500	29,000	37,300	82,800
	Chloride	95	72	0.25	0.77	1.2	1.33	1.6	6.2	1.2	6.48	33.6	179	254	1,110
	Chromium	101	100	--	--	--	--	--	--	2.6	6.85	9	9.03	11.2	16.7
	Chromium Hexavalent	95	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	101	100	--	--	--	--	--	--	3.7	7.05	8.8	8.67	9.95	16.3
	Copper	101	100	--	--	--	--	--	--	10.1	14.7	17.6	17.5	19.9	25.9
	Fluoride	95	14	0.051	0.051	0.051	0.355	0.603	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	101	100	--	--	--	--	--	--	5,410	10,700	13,500	13,200	15,600	19,700
	Lead	101	100	--	--	--	--	--	--	3	6.1	7.3	8.47	9.5	35.1
	Lithium	95	100	--	--	--	--	--	--	7.5	10.8	12.9	14	17.1	26.5
	Magnesium	101	100	--	--	--	--	--	--	4,690	8,410	10,200	10,200	12,400	17,500
	Manganese	101	100	--	--	--	--	--	--	151	333	409	416	492	863
	Mercury	101	78	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.018	0.0223	0.027	0.11
	Molybdenum	101	100	--	--	--	--	--	--	0.17	0.39	0.48	0.533	0.605	2
	Nickel	101	100	--	--	--	--	--	--	7.9	12.9	16	15.9	18.4	30
	Niobium	95	0	1.02	1.02	1.3	1.43	1.7	2.8	--	--	--	--	--	--
	Nitrate	95	87	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.51	1.3	9.45	6.2	102
	Nitrite	95	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	95	100	--	--	--	--	--	--	0.16	0.3	0.42	0.48	0.58	1.5
	Platinum	95	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosporus	95	100	--	--	--	--	--	--	862	1,260	1,490	1,470	1,680	2,010
	Potassium	95	100	--	--	--	--	--	--	625	1,180	1,580	1,750	2,230	3,890
	Selenium	101	39	0.158	0.158	0.158	0.158	0.158	0.158	0.1	0.26	0.3	0.306	0.35	0.6
	Silicon	95	100	--	--	--	--	--	--	335	551	721	1,010	1,120	4,150
	Silver	101	6	0.261	0.261	0.261	0.261	0.261	0.261	0.043	0.0438	0.051	0.0582	0.0785	0.083
	Sodium	95	100	--	--	--	--	--	--	128	214	487	498	693	1,320
	Strontium	95	100	--	--	--	--	--	--	75.5	143	192	232	267	808
	Sulfate	95	79	0.612	1.25	2.2	2.37	3.25	4.4	2.1	14.8	62.3	247	160	4,130
	Thallium	101	27	0.2	0.43	0.543	0.546	0.6	1.1	0.13	1.1	1.2	1.16	1.5	1.8
	Thorium	6	100	--	--	--	--	--	--	5.3	5.3	6.3	6.25	7.08	7.3
	Tin	95	100	--	--	--	--	--	--	0.24	0.41	0.51	0.499	0.57	0.8
	Titanium	101	100	--	--	--	--	--	--	262	446	533	552	654	1,010
	Tungsten	95	0	0.49	0.89	1.1	1.2	1.5	2.5	--	--	--	--	--	--
	Uranium	94	100	--	--	--	--	--	--	0.62	0.84	0.97	1.03	1.1	2.7
	Vanadium	101	100	--	--	--	--	--	--	20.2	32.6	36.9	38.3	44.9	59.1
	Zinc	101	100	--	--	--	--	--	--	15.4	31	38.9	38.5	44.1	121
	Zirconium	95	100	--	--	--	--	--	--	86.1	116	129	131	146	179

Table G-6. Descriptive Summary Statistics for Metals, Anions. and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Actinium-228	101	100	--	--	--	--	--	--	1.18	1.61	1.81	1.87	2.05	3.4
	Bismuth-210	95	1	-0.5	0.2	0.6	0.616	0.903	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	101	61	0.29	0.61	0.75	0.792	0.96	1.3	0.72	0.91	1.14	1.19	1.41	1.82
	Bismuth-214	101	100	--	--	--	--	--	--	0.6	0.845	0.96	0.985	1.13	1.62
	Cobalt-57	95	0	-0.045	-0.01	0.001	0.000414	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	95	0	-0.073	-0.018	0.003	0.000611	0.023	0.071	--	--	--	--	--	--
	Lead-210	101	1	-0.5	0.225	0.6	0.678	1.09	2.2	2.2	--	2.2	2.2	--	2.2
	Lead-211	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Lead-212	101	100	--	--	--	--	--	--	1.08	1.37	1.58	1.55	1.74	2.11
	Lead-214	101	100	--	--	--	--	--	--	0.69	0.855	0.96	1	1.1	1.72
	Polonium-210	95	1	-0.5	0.2	0.6	0.616	0.903	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	95	64	0.19	0.388	0.46	0.483	0.58	0.78	0.46	0.58	0.72	0.759	0.905	1.17
	Polonium-214	95	100	--	--	--	--	--	--	0.6	0.84	0.95	0.984	1.14	1.62
	Polonium-215	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Polonium-216	95	100	--	--	--	--	--	--	1.08	1.37	1.61	1.56	1.74	2.11
	Polonium-218	95	96	0.939	0.949	0.978	0.973	0.994	0.999	0.494	0.952	1.12	1.16	1.28	2.36
	Potassium-40	101	100	--	--	--	--	--	--	17.8	22.6	24.1	24.3	25.9	30.5
	Protactinium-234	95	0	-0.34	-0.14	-0.08	-0.0789	-0.01	0.13	--	--	--	--	--	--
	Radium-223	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Radium-224	95	100	--	--	--	--	--	--	1.08	1.37	1.61	1.56	1.74	2.11
	Radium 226	95	96	0.939	0.949	0.978	0.973	0.994	0.999	0.494	0.952	1.12	1.16	1.28	2.36
	Radium 228	81	80	0.946	1.38	1.57	1.58	1.85	2	1.15	1.72	2.02	1.97	2.2	2.92
	Thallium-207	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Thallium-208	101	100	--	--	--	--	--	--	0.37	0.48	0.57	0.554	0.61	0.72
	Thorium-227	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Thorium-228	101	100	--	--	--	--	--	--	1.15	1.51	1.78	1.74	1.93	2.28
	Thorium-230	101	100	--	--	--	--	--	--	0.73	1.05	1.21	1.29	1.48	3.01
	Thorium-231	95	12	0	0.0403	0.059	0.0617	0.0868	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	101	100	--	--	--	--	--	--	1.22	1.44	1.66	1.66	1.85	2.23
	Thorium-234	101	60	-0.53	0.46	0.76	0.681	0.97	1.39	1.11	1.42	1.62	1.65	1.85	2.5
	Uranium 233/234	101	50	0.63	0.83	0.945	0.935	1.03	1.17	0.7	1.08	1.23	1.43	1.84	2.84
	Uranium 235	101	45	0	0.03	0.048	0.0476	0.0655	0.11	0.037	0.0565	0.089	0.0915	0.118	0.21
	Uranium-238	101	100	--	--	--	--	--	--	0.65	0.92	1.05	1.16	1.32	2.37

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-7. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ River Mountains Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	6,820	7,110	8,950	9,000	10,600	12,000
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.6	2.9	3.35	3.36	3.73	4.3
	Barium	8	100	--	--	--	--	--	--	322	344	373	392	418	561
	Beryllium	8	100	--	--	--	--	--	--	0.25	0.283	0.3	0.32	0.363	0.43
	Cadmium	8	100	--	--	--	--	--	--	0.052	0.0678	0.0955	0.0943	0.118	0.14
	Chromium	8	100	--	--	--	--	--	--	4.3	6.75	7.6	7.88	8.83	12.4
	Cobalt	8	100	--	--	--	--	--	--	3.9	3.95	4.15	4.39	4.68	5.6
	Copper	8	100	--	--	--	--	--	--	7.8	8.1	8.6	9.54	9.65	16.3
	Iron	8	100	--	--	--	--	--	--	7,520	8,000	9,320	9,410	10,500	11,800
	Lead	8	100	--	--	--	--	--	--	7	13.2	18	17.5	23.5	23.5
	Magnesium	8	100	--	--	--	--	--	--	4,630	4,740	5,250	5,700	6,820	7,810
	Manganese	8	100	--	--	--	--	--	--	223	360	410	424	541	546
	Mercury	8	100	--	--	--	--	--	--	0.013	0.0183	0.02	0.02	0.0235	0.024
	Molybdenum	8	100	--	--	--	--	--	--	0.22	0.23	0.275	0.293	0.343	0.42
	Nickel	8	100	--	--	--	--	--	--	7.8	8.48	9.65	10.2	11.3	15.4
	Selenium	8	63	0.0467	0.0467	0.0467	0.0467	0.0467	0.0467	0.1	0.105	0.11	0.126	0.155	0.18
	Silver	8	100	--	--	--	--	--	--	0.019	0.027	0.0365	0.0424	0.0638	0.076
	Thallium	8	100	--	--	--	--	--	--	0.1	0.13	0.14	0.141	0.158	0.18
	Thorium	8	100	--	--	--	--	--	--	4.6	4.93	5.25	5.66	6.3	7.7
	Titanium	8	100	--	--	--	--	--	--	235	261	298	310	326	473
	Vanadium	8	100	--	--	--	--	--	--	14.6	15.2	16.3	16.5	17.7	18.6
	Zinc	8	100	--	--	--	--	--	--	23	26.1	29.5	30.5	36	40.6
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.11	1.24	1.37	1.45	1.77	1.9
	Bismuth 212	8	13	0.31	0.75	0.82	0.774	0.95	1.02	1.27	--	1.27	1.27	--	1.27
	Bismuth-214	8	100	--	--	--	--	--	--	0.57	0.66	0.765	0.765	0.883	0.93
	Lead-210	8	13	0.7	0.72	1.3	1.32	1.8	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	8	100	--	--	--	--	--	--	0.94	1.01	1.1	1.13	1.25	1.36
	Lead-214	8	100	--	--	--	--	--	--	0.62	0.665	0.75	0.753	0.85	0.86
	Potassium-40	8	100	--	--	--	--	--	--	24.9	26.2	29.3	28.8	29.9	34.4
	Thallium-208	8	100	--	--	--	--	--	--	0.33	0.345	0.455	0.434	0.498	0.54
	Thorium-228	8	100	--	--	--	--	--	--	1.07	1.25	1.42	1.37	1.51	1.52
	Thorium-230	8	100	--	--	--	--	--	--	0.9	0.93	1.14	1.11	1.23	1.35
	Thorium-232	8	100	--	--	--	--	--	--	1.1	1.16	1.37	1.35	1.53	1.58
	Thorium-234	8	0	-0.002	0.0875	0.365	0.369	0.665	0.71	--	--	--	--	--	--
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.543	0.66	0.65	0.718	0.81
	Uranium 235	8	50	0.016	0.019	0.0385	0.036	0.0505	0.051	0.061	0.063	0.083	0.0825	0.102	0.103
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.485	0.67	0.674	0.84	0.92

Notes:

mg/kg	Milligrams per kilogram	pCi/g	PicoCuries per gram
Max	Maximum concentration	Q1	1st quartile (25th percentile)
Min	Minimum concentration	Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-60, lead 2-10, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the BRC/TIMET/Environ River Mountains background soil samples

Table G-8. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	11	100	--	--	--	--	--	--	4,840	5,480	6,180	6,700	6,370	10,900
	Antimony	11	55	0.0394	0.0394	0.33	0.214	0.33	0.33	0.13	0.13	0.21	0.228	0.298	0.44
	Arsenic	11	100	--	--	--	--	--	--	2.9	4.4	5.3	4.87	5.7	5.9
	Barium	11	100	--	--	--	--	--	--	211	346	424	468	604	836
	Beryllium	11	100	--	--	--	--	--	--	0.38	0.43	0.52	0.504	0.56	0.62
	Boron	9	0	3.2	3.2	3.4	3.64	4.1	4.4	--	--	--	--	--	--
	Cadmium	11	18	0.129	0.129	0.129	0.129	0.129	0.129	0.11	--	0.125	0.125	--	0.14
	Calcium	9	100	--	--	--	--	--	--	8,160	10,200	16,100	18,600	28,500	36,400
	Chloride	9	44	0.86	0.895	0.96	1.09	1.35	1.7	3.1	7.33	28	24.2	37.3	37.7
	Chromium	11	100	--	--	--	--	--	--	5	7.8	8.8	8.86	10.2	11.7
	Chromium Hexavalent	9	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	11	100	--	--	--	--	--	--	5.1	5.4	6.1	6.91	7.8	12.3
	Copper	11	100	--	--	--	--	--	--	11.1	14.3	18.3	18.6	23.2	30.5
	Fluoride	9	0	0.051	0.051	0.051	0.051	0.051	0.051	--	--	--	--	--	--
	Iron	11	100	--	--	--	--	--	--	9,180	10,800	11,200	11,700	13,600	14,000
	Lead	11	100	--	--	--	--	--	--	8.9	9.1	9.9	12.6	17.5	21
	Lithium	9	100	--	--	--	--	--	--	9.1	10.1	11.7	11.8	13.4	14.9
	Magnesium	11	100	--	--	--	--	--	--	4,580	5,100	5,450	6,060	6,880	9,090
	Manganese	11	100	--	--	--	--	--	--	345	414	469	507	504	1,090
	Mercury	11	55	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0097	0.0129	0.016	0.0156	0.019	0.019
	Molybdenum	11	100	--	--	--	--	--	--	0.22	0.73	0.9	0.859	1.1	1.3
	Nickel	11	100	--	--	--	--	--	--	8.9	10.3	11.3	11.3	12.1	13.8
	Niobium	9	0	1.02	1.02	1.02	1.3	1.55	2.4	--	--	--	--	--	--
	Nitrate	9	78	0.1	--	0.1	0.1	--	0.1	0.11	0.13	0.51	0.45	0.61	1
	Nitrite	9	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	9	100	--	--	--	--	--	--	0.14	0.19	0.22	0.266	0.37	0.48
	Platinum	9	0	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	--	--	--	--	--	--
	Phosphorus	9	100	--	--	--	--	--	--	636	727	804	798	842	984
	Potassium	9	100	--	--	--	--	--	--	1,240	1,240	1,380	1,470	1,710	1,840
	Selenium	11	73	0.0467	0.0467	0.158	0.121	0.158	0.158	0.17	0.238	0.335	0.34	0.4	0.59
	Silicon	9	100	--	--	--	--	--	--	527	622	690	708	794	883
	Silver	11	18	0.261	0.261	0.261	0.261	0.261	0.261	0.048	--	0.052	0.052	--	0.056
	Sodium	9	100	--	--	--	--	--	--	111	135	265	352	572	901
	Strontium	9	100	--	--	--	--	--	--	69	85.6	92	122	180	219
	Sulfate	9	67	2.7	2.7	3.1	3.07	3.4	3.4	6	7.43	13.2	14.5	21.4	27.6
	Thallium	11	64	0.87	0.878	0.915	0.913	0.945	0.95	0.12	0.16	1.1	0.883	1.3	1.4
	Thorium	2	100	--	--	--	--	--	--	5.4	--	5.65	5.65	--	5.9
	Tin	9	89	0.187	--	0.187	0.187	--	0.187	0.2	0.21	0.235	0.255	0.318	0.34
	Titanium	11	100	--	--	--	--	--	--	200	219	244	272	313	398
	Tungsten	9	0	0.68	0.745	0.9	0.937	1.05	1.5	--	--	--	--	--	--
	Uranium	9	100	--	--	--	--	--	--	0.43	0.57	0.71	0.678	0.79	0.84
	Vanadium	11	100	--	--	--	--	--	--	19.2	21.7	23.2	23	24.4	26
	Zinc	11	100	--	--	--	--	--	--	21.4	23.9	25.2	30.7	35.3	52.4
	Zirconium	9	100	--	--	--	--	--	--	60.1	64.8	69	75.2	89.2	92.9

Table G-8. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Actinium-228	11	100	--	--	--	--	--	--	1.17	1.26	1.42	1.46	1.74	1.78
	Bismuth-210	9	0	-0.6	-0.205	0.4	0.321	0.65	1.5	--	--	--	--	--	--
	Bismuth-211	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Bismuth 212	11	45	0.52	0.565	0.685	0.72	0.923	0.93	0.71	0.915	1.16	1.23	1.59	1.72
	Bismuth-214	11	100	--	--	--	--	--	--	0.52	0.7	0.73	0.755	0.8	1.14
	Cobalt-57	9	0	-0.036	-0.0105	-0.004	-0.00421	0.0065	0.015	--	--	--	--	--	--
	Cobalt-60	9	0	-0.031	-0.016	0.014	0.011	0.026	0.082	--	--	--	--	--	--
	Lead-210	11	0	-0.6	-0.14	0.4	0.528	1.42	1.5	--	--	--	--	--	--
	Lead-211	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Lead-212	11	100	--	--	--	--	--	--	1.08	1.11	1.22	1.25	1.36	1.44
	Lead-214	11	100	--	--	--	--	--	--	0.61	0.66	0.79	0.805	0.84	1.23
	Polonium-210	9	0	-0.6	-0.205	0.4	0.321	0.65	1.5	--	--	--	--	--	--
	Polonium-212	9	33	0.33	0.36	0.445	0.463	0.593	0.6	0.46	0.46	0.72	0.64	0.74	0.74
	Polonium-214	9	100	--	--	--	--	--	--	0.52	0.705	0.73	0.72	0.78	0.8
	Polonium-215	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Polonium-216	9	100	--	--	--	--	--	--	1.08	1.1	1.21	1.22	1.35	1.44
	Polonium-218	9	56	0.592	0.602	0.693	0.713	0.843	0.872	0.583	0.61	0.784	0.753	0.881	0.926
	Potassium-40	11	100	--	--	--	--	--	--	28.8	30	31	31.1	31.3	35
	Protactinium-234	9	0	-0.17	-0.125	-0.06	-0.0733	-0.025	-0.01	--	--	--	--	--	--
	Radium-223	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Radium-224	9	100	--	--	--	--	--	--	1.08	1.1	1.21	1.22	1.35	1.44
	Radium 226	9	56	0.592	0.602	0.693	0.713	0.843	0.872	0.583	0.61	0.784	0.753	0.881	0.926
	Radium 228	3	100	--	--	--	--	--	--	2.14	2.14	2.42	2.5	2.94	2.94
	Thallium-207	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Thallium-208	11	100	--	--	--	--	--	--	0.39	0.46	0.5	0.495	0.53	0.59
	Thorium-227	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Thorium-228	11	100	--	--	--	--	--	--	1.17	1.28	1.44	1.46	1.62	1.9
	Thorium-230	11	100	--	--	--	--	--	--	0.66	0.78	0.84	0.905	1.02	1.37
	Thorium-231	9	0	0.021	0.038	0.053	0.0574	0.065	0.13	--	--	--	--	--	--
	Thorium-232	11	100	--	--	--	--	--	--	1.05	1.26	1.44	1.42	1.47	1.93
	Thorium-234	11	36	-0.15	-0.11	0.56	0.471	0.82	0.96	1.29	1.29	1.36	1.36	1.44	1.44
	Uranium 233/234	11	18	0.47	0.63	0.75	0.728	0.845	0.9	0.76	--	0.775	0.775	--	0.79
	Uranium 235	11	45	0.021	0.0278	0.0405	0.0397	0.053	0.053	0.054	0.059	0.076	0.083	0.111	0.13
	Uranium-238	11	100	--	--	--	--	--	--	0.57	0.59	0.66	0.719	0.82	0.94

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Depths	0-5 feet bgs	0-10 feet bgs	5-10f eet bgs	All Depths feet bgs	0-5 feet bgs	0-10 feet bgs	5-10 feet bgs	
Metals and Anions (mg/kg)	Aluminum	120	100	0.001	0.024	0.089	0.032	0.846	0.020	0.067	0.024	0.940	0>10
	Antimony	120	41	<0.001	0.013	0.009	0.404	0.291	0.007	0.007	0.165	0.309	0>5
	Arsenic	120	100	0.001	0.069	0.509	0.380	0.055	0.051	0.921	0.227	0.017	No significant difference among depths
	Barium	120	100	0.000	0.902	0.918	1.000	0.921	0.150	0.778	0.427	0.150	No significant difference among depths
	Beryllium	120	100	0.105	0.267	0.236	0.710	0.748	0.358	0.363	0.818	0.737	No significant difference among depths
	Boron	104	33	<0.001	0.462	0.566	0.507	0.994	0.330	0.575	0.336	0.919	No significant difference among depths
	Cadmium	120	13	<0.001	0.051	0.485	N/A	N/A	0.057	0.118	N/A	N/A	No significant difference among depths
	Calcium	104	100	<0.001	0.001	0.056	0.001	0.319	<0.001	0.443	<0.001	0.084	0<10
	Chloride	104	69	<0.001	0.003	0.006	0.013	0.968	<0.001	<0.001	<0.001	0.393	0<5, 0<10
	Chromium	120	100	0.908	<0.001	<0.001	0.001	0.935	<0.001	<0.001	0.002	0.917	0>5, 0>10
	Cobalt	120	100	0.104	0.358	0.406	1.000	0.465	0.275	0.264	0.998	0.566	No significant difference among depths
	Copper	120	100	0.505	0.168	0.146	0.791	0.515	0.120	0.152	0.562	0.457	No significant difference among depths
	Fluoride	104	13	0.000	0.008	N/A	N/A	0.816	0.001	N/A	N/A	0.935	Insufficent number of detected concentrations
	Iron	120	100	0.431	0.006	0.026	0.012	0.894	0.008	0.021	0.017	0.992	0>5, 0>10
	Lead	120	100	<0.001	<0.001	<0.001	<0.001	0.148	<0.001	<0.001	<0.001	0.001	0>5, 0>10, 5>10
	Lithium	104	100	<0.001	0.039	0.502	0.286	0.030	0.040	0.822	0.223	0.017	5<10
	Magnesium	120	100	0.049	0.007	0.017	0.984	0.019	0.010	0.017	0.983	0.024	0>5, 5<10
	Manganese	120	100	<0.001	0.010	0.049	0.014	0.818	0.008	0.023	0.027	0.996	0>5, 0>10
	Mercury	120	78	<0.001	0.066	0.052	0.472	0.568	0.002	0.006	0.008	0.914	0>5, 0>10
	Molybdenum	120	100	<0.001	0.338	1.000	0.390	0.394	0.070	0.738	0.252	0.048	No significant difference among depths
	Nickel	120	100	0.051	0.015	0.012	0.185	0.612	0.024	0.014	0.347	0.595	0>5
	Nitrate	104	87	<0.001	0.012	0.010	0.662	0.104	<0.001	<0.001	<0.001	0.992	0<5, 0<10
	Nitrite	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Palladium	104	100	<0.001	<0.001	0.294	0.000	0.004	<0.001	0.022	0.000	0.009	0<5, 0<10, 5<10
	Phosphorus	104	100	0.194	0.303	>0.05	>0.05	>0.05	0.278	N/A	N/A	N/A	No significant difference among depths
	Platinum	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Potassium	104	100	<0.001	<0.001	<0.001	<0.001	0.088	<0.001	<0.001	<0.001	0.107	0>5, 0>10
	Selenium	120	43	<0.001	0.005	0.044	0.007	0.698	0.008	0.112	0.006	0.478	0>10
	Silicon	104	100	<0.001	<0.001	0.001	0.001	0.992	0.091	0.135	0.149	0.999	No significant difference among depths
	Silver	120	13	<0.001	0.034	0.930	NA	NA	0.999	1.000	NA	NA	No significant difference among depths
	Sodium	104	100	0.003	<0.001	<0.001	<0.001	0.248	<0.001	<0.001	<0.001	0.173	0<5, 0<10
	Strontium	104	100	<0.001	<0.001	0.371	<0.001	0.005	<0.001	0.015	<0.001	0.021	0<5, 0<10, 5<10
	Sulfate	104	78	<0.001	0.210	0.483	0.195	0.829	<0.001	<0.001	<0.001	0.846	0<5, 0<10
	Thallium	120	35	<0.001	0.631	0.632	0.778	0.983	0.288	0.426	0.355	0.990	No significant difference among depths
	Tin	104	99	0.199	<0.001	0.003	<0.001	0.326	<0.001	0.001	<0.001	0.299	0>5, 0>10
	Titanium	120	100	0.030	0.466	0.549	0.538	0.996	0.357	0.401	0.557	0.991	No significant difference among depths
	Uranium	103	100	<0.001	0.007	0.769	0.007	0.053	0.042	0.459	0.037	0.273	0<10
	Vanadium	120	100	0.156	0.224	0.790	0.489	0.198	0.244	0.825	0.465	0.257	No significant difference among depths
	Zinc	120	100	<0.001	<0.001	<0.001	<0.001	0.692	<0.001	<0.001	<0.001	0.564	0>5, 0>10
	Zirconium	104	100	0.254	0.296	0.544	0.862	0.279	0.283	0.608	0.792	0.269	No significant difference among depths

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Depths	0-5 feet bgs	0-10 feet bgs	5-10f eet bgs	All Depths feet bgs	0-5 feet bgs	0-10 feet bgs	5-10 feet bgs	
Radionuclides (pCi/g)	Actinium-227	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Actinium-228	120	100	0.003	0.562	0.679	0.974	0.584	0.336	0.752	0.713	0.339	No significant difference among depths
	Bismuth-210	104	1	0.022	0.006	0.006	0.817	0.041	0.002	0.001	0.948	0.014	0>5, 5<10
	Bismuth-211	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Bismuth-212	120	57	0.449	0.016	0.418	0.011	0.204	0.030	0.368	0.026	0.384	0<10
	Bismuth-214	120	100	0.080	0.759	0.911	0.741	0.935	0.791	0.938	0.822	0.965	No significant difference among depths
	Cobalt-57	104	0	0.345	0.029	0.069	0.961	0.042	0.049	0.088	0.999	0.059	0>5, 5<10
	Cobalt-60	104	0	0.727	0.027	0.371	0.020	0.359	0.060	0.653	0.031	0.394	0<10
	Lead-210	120	2	0.015	0.053	0.045	0.313	0.710	0.029	0.026	0.381	0.408	0>5
	Lead-211	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Lead-212	120	100	0.040	0.451	0.742	0.828	0.422	0.530	0.661	0.953	0.601	No significant difference among depths
	Lead-214	120	100	<0.001	<0.001	0.846	0.001	0.004	0.006	0.961	0.011	0.033	0<10, 5<10
	Polonium-210	104	1	0.022	0.006	0.006	0.817	0.041	0.002	0.002	0.948	0.014	0>5, 5<10
	Polonium-212	104	62	0.054	0.607	0.732	0.617	0.981	0.635	0.765	0.666	0.981	No significant difference among depths
	Polonium-214	104	100	0.384	0.050	0.574	0.039	0.320	0.076	0.530	0.067	0.456	0<10
	Polonium-215	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Polonium-216	104	100	0.029	0.793	0.777	0.960	0.918	0.698	0.622	0.906	0.984	No significant difference among depths
	Polonium-218	104	92	0.109	0.003	0.701	0.003	0.034	0.028	0.535	0.026	0.200	0<10, 5<10
	Potassium-40	120	100	0.021	0.285	0.912	0.463	0.272	0.450	0.959	0.657	0.439	No significant difference among depths
	Protactinium-234	104	0	0.543	0.216	0.880	0.202	0.444	0.204	0.831	0.166	0.542	No significant difference among depths
	Radium-223	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Radium-224	104	100	0.029	0.793	0.777	0.960	0.918	0.698	0.622	0.906	0.984	No significant difference among depths
	Radium-226	104	92	0.109	0.003	0.701	0.003	0.034	0.028	0.535	0.027	0.200	0<10, 5<10
	Radium-228	84	81	0.927	0.830	0.863	0.999	0.855	0.949	0.998	0.996	0.958	No significant difference among depths
	Thallium-207	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.313	0.742	No significant difference among depths
	Thallium-208	120	100	0.221	0.387	0.657	0.370	0.860	0.456	0.909	0.439	0.795	No significant difference among depths
	Thorium-227	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.313	0.742	No significant difference among depths
	Thorium-228	120	100	0.190	0.021	0.967	0.027	0.052	0.024	0.997	0.029	0.048	0>10
	Thorium-230	120	100	<0.001	<0.001	0.424	<0.001	0.006	0.004	0.486	0.005	0.082	0<10
	Thorium-231	104	11	0.018	0.073	0.874	0.189	0.075	0.140	0.673	0.441	0.123	No significant difference among depths
	Thorium-232	120	100	0.029	0.084	0.300	0.080	0.723	0.067	0.271	0.075	0.656	No significant difference among depths
	Thorium-234	120	54	0.231	0.054	0.812	0.162	0.050	0.074	0.867	0.193	0.064	No significant difference among depths
	Uranium-233/234	120	51	0.059	0.037	0.899	0.095	0.039	0.127	0.825	0.316	0.124	5<10
	Uranium-235	120	45	0.002	<0.001	0.131	<0.001	<0.001	<0.001	0.047	<0.001	0.002	0>5, 0<10, 5<10
	Uranium-238	120	100	0.000	0.000	0.094	<0.001	<0.001	<0.001	0.043	<0.001	0.001	0<5, 0<10, 5<10

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Notes:

Nonparametric tests were selected where censored (nondetect) measurements were present in one or more groups and where the detection

Shaded cells indicate results selected for test interpretation in the conclusions column.

A variation of the Kruskal-Wallis test with Gehan ranking was used when censored measurements were present in one or more groups.

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

ANOVA	Analysis of variance
bgs	Below ground surface
HSD	Honest Significantly Difference
mg/kg	Milligrams per kilogram
N/A	Not applicable. Indicates that statistical testing is contraindicated because of low detection frequency in at least one of the groups being compared; a minimum of four detected measurements was selected as the cutoff for conducting statistical testing, although it should be acknowledged that tests conducted in cases with low detection frequenices and/or a large disparity in sample size among groups being compared may still suffer from low power, and results should be interpreted with
p	Probability (p value) assoicated with the Shapiro-Wilk test performed on the residuals from the ANOVA;. p values less than or equal to 0.05 result in rejection of
pCi/g	Pico Curies per gram

Table G-10. Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Orig

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Origins	Mc-R	Mc-Mx	Mx-R	All Origins	Mc-R	Mc-Mx	Mx-R	
Metals and Anions (mg/kg)	Aluminum	120	100	0.005	0.014	0.989	0.010	0.139	0.002	0.999	0.003	0.011	Mc>Mx, Mx<R
	Antimony	120	41	<0.001	<0.001	N/A	0.835	N/A	<0.001	N/A	0.844	N/A	No significant difference among soil types
	Arsenic	120	100	0.013	0.014	0.159	0.081	0.011	0.011	0.042	0.083	0.002	Mc>R, Mx>R
	Barium	120	100	<0.001	<0.001	<0.001	<0.001	0.128	<0.001	<0.001	<0.001	0.489	Mc<R, Mc<Mx
	Beryllium	120	100	0.068	<0.001	<0.001	0.239	0.026	<0.001	<0.001	0.131	<0.001	Mc>R, Mx>R
	Boron	104	33	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Cadmium	120	13	<0.001	<0.001	<0.001	N/A	N/A	0.352	0.998	N/A	N/A	No significant difference among soil types
	Calcium	104	100	<0.001	NT	N/A	0.045	N/A	NT	N/A	0.017	N/A	Mc>Mx
	Chloride	104	69	<0.001	NT	N/A	0.149	N/A	NT	N/A	0.059	N/A	No significant difference between soil types
	Chromium	120	100	0.714	0.555	0.526	0.982	0.743	0.511	0.402	1.000	0.483	No significant difference among soil types
	Cobalt	120	100	0.037	<0.001	<0.001	0.036	0.042	<0.001	<0.001	0.069	<0.001	Mc>R, Mx>R
	Copper	120	100	0.549	<0.001	<0.001	0.622	<0.001	<0.001	<0.001	0.954	<0.001	Mc>R, Mx>R
	Fluoride	104	13	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Iron	120	100	0.189	0.003	0.004	0.289	0.263	0.001	<0.001	0.031	0.005	Mc>R
	Lead	120	100	<0.001	<0.001	<0.001	0.012	0.049	<0.001	0.001	0.001	0.172	Mc<R, Mc<Mx
	Lithium	104	100	<0.001	NT	N/A	0.142	N/A	NT	N/A	0.205	N/A	No significant difference between soil types
	Magnesium	120	100	0.288	<0.001	<0.001	<0.001	0.953	<0.001	<0.001	<0.001	0.840	Mc>R, Mc>Mx
	Manganese	120	100	<0.001	0.104	0.987	0.085	0.373	0.259	0.941	0.119	0.864	No significant difference among soil types
	Mercury	120	78	<0.001	0.231	0.948	0.224	0.353	0.040	0.034	0.096	<0.001	Mc<R, Mx<R
	Molybdenum	120	100	<0.001	<0.001	0.032	<0.001	<0.001	<0.001	<0.001	0.065	0.006	Mc>R, Mx>R
	Nickel	120	100	0.010	<0.001	<0.001	0.001	0.818	<0.001	<0.001	<0.001	0.248	Mc>R, Mc>Mx
	Nitrate	104	87	<0.001	NT	N/A	0.215	N/A	NT	N/A	0.011	N/A	Mc>Mx
	Nitrite	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Palladium	104	100	<0.001	NT	N/A	0.010	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Phosphorus	104	100	0.281	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Platinum	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Potassium	104	100	<0.001	NT	N/A	0.273	N/A	NT	N/A	0.532	N/A	No significant difference between soil types
	Selenium	120	43	<0.001	0.010	0.207	0.044	0.009	0.065	0.612	0.279	0.050	No significant difference among soil types
	Silicon	104	100	<0.001	NT	N/A	0.274	N/A	NT	N/A	0.571	N/A	No significant difference between soil types
	Silver	120	13	<0.001	<0.001	<0.001	NA	N/A	<0.001	0.277	N/A	N/A	No significant difference among soil types
	Sodium	104	100	<0.001	NT	N/A	0.142	N/A	NT	N/A	0.087	N/A	No significant difference among soil types
	Strontium	104	100	<0.001	NT	N/A	0.016	N/A	NT	N/A	0.002	N/A	Mc>Mx
	Sulfate	104	78	<0.001	0.338	N/A	0.338	N/A	0.055	N/A	N/A	N/A	No significant difference among soil types
	Thallium	120	35	<0.001	0.030	0.088	0.313	0.023	0.007	0.093	0.401	0.044	Mx>R
	Tin	104	99	0.696	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Titanium	120	100	0.002	<0.001	<0.001	<0.001	0.835	<0.001	<0.001	<0.001	0.297	Mc>R, Mc>Mx
	Uranium	103	100	<0.001	NT	N/A	0.001	NA	NT	N/A	<0.001	N/A	Mc>Mx
	Vanadium	120	100	0.352	<0.001	<0.001	<0.001	0.199	<0.001	<0.001	<0.001	<0.001	Mc>R, Mc>Mx
	Zinc	120	100	<0.001	0.043	0.192	0.120	1.000	0.011	0.015	0.108	0.672	Mc>R
	Zirconium	104	100	0.060	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx

Table G-10. Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Orig

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Origins	Mc-R	Mc-Mx	Mx-R	All Origins	Mc-R	Mc-Mx	Mx-R	
Radionuclides (pCi/g)	Actinium-227	104	0	0.397	NT	N/A	0.439	N/A	0.635	N/A	0.635	N/A	No significant difference between soil types
	Actinium-228	120	100	0.002	<0.001	0.004	0.001	0.995	<0.001	0.012	0.002	0.996	Mc>R, Mc>Mx
	Bismuth-210	104	1	0.037	NT	N/A	0.122	N/A	NT	N/A	0.138	N/A	No significant difference between soil types
	Bismuth-211	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Bismuth-212	120	57	0.013	<0.001	0.007	0.001	0.993	<0.001	0.001	0.001	0.816	Mc>R, Mc>Mx
	Bismuth-214	120	100	0.062	0.228	0.246	0.723	0.736	0.234	0.165	0.690	0.996	No significant difference among soil types
	Cobalt-57	104	0	0.304	NT	N/A	0.426	N/A	NT	N/A	0.408	N/A	No significant difference between soil types
	Cobalt-60	104	0	0.799	0.325	N/A	0.325	N/A	0.438	N/A	N/A	N/A	No significant difference between soil types
	Lead-210	120	2	0.021	0.006	0.007	0.679	0.009	0.009	0.002	0.734	0.006	Mc<R, Mx<R
	Lead-211	104	0	0.397	0.439	N/A	0.439	N/A	0.635	N/A	N/A	N/A	No significant difference between soil types
	Lead-212	120	100	0.185	<0.001	<0.001	<0.001	0.495	<0.001	<0.001	<0.001	0.215	Mc>R, Mc>Mx
	Lead-214	120	100	<0.001	<0.001	0.004	0.009	0.844	<0.001	<0.001	0.010	0.985	Mc>R, Mc>Mx
	Polonium-210	104	1	0.037	NT	N/A	0.122	N/A	NT	N/A	0.138	N/A	No significant difference between soil types
	Polonium-212	104	62	0.066	NT	NA	0.067	NA	NT	N/A	0.071	N/A	No significant difference between soil types
	Polonium-214	104	100	0.027	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Polonium-215	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Polonium-216	104	100	0.127	<0.001	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Polonium-218	104	92	<0.001	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Potassium-40	120	100	0.427	<0.001	<0.001	0.000	0.098	<0.001	<0.001	<0.001	0.066	Mc<R, Mc<Mx
	Protactinium-234	104	0	0.730	NT	N/A	0.867	N/A	NT	N/A	0.853	N/A	No significant difference between soil types
	Radium-223	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Radium-224	104	100	0.127	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Radium-226	104	92	<0.001	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Radium-228	84	81	0.891	NT	N/A	0.010	N/A	NT	N/A	0.021	N/A	Mc<Mx
	Thallium-207	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Thallium-208	120	100	0.059	<0.001	0.001	0.083	0.269	0.001	0.001	0.020	0.221	Mc>R
	Thorium-227	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Thorium-228	120	100	0.094	<0.001	<0.001	0.002	0.718	<0.001	<0.001	0.002	0.747	Mc>R, Mc>Mx
	Thorium-230	120	100	<0.001	0.003	0.342	0.003	0.473	<0.001	0.189	0.001	0.034	Mc>Mx, Mx<R
	Thorium-231	104	11	0.001	NT	N/A	0.514	N/A	NT	N/A	0.373	N/A	No significant difference between soil types
	Thorium-232	120	100	0.030	<0.001	0.003	0.011	0.811	0.001	0.003	0.020	0.873	Mc>R, Mc>Mx
	Thorium-234	120	54	0.031	<0.001	<0.001	0.031	0.259	<0.001	<0.001	0.012	0.154	Mc>R, Mc>Mx
	Uranium-233/234	120	51	0.002	0.718	0.842	0.799	1.000	0.735	0.928	0.692	1.000	No significant difference among soil types
	Uranium-235	120	45	<0.001	<0.001	<0.001	<0.001	0.955	<0.001	<0.001	<0.001	0.857	Mc>R, Mc>Mx
	Uranium-238	120	100	<0.001	<0.001	0.002	0.003	0.900	<0.001	<0.001	<0.001	0.187	Mc>R, Mc>Mx

Table G-10 Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Origin

Notes:

Nonparametric tests were selected when censored (nondetect) measurements were present in one or more groups and when the detection frequency

Shaded cells indicate results selected for test interpretation in the conclusions column.

A variation of the Kruskal-Wallis test with Gehan ranking was used when censored measurements were present in one or more groups.

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

ANOVA	Analysis of variance
bgs	Below ground surface
HSD	Honestly Significantly Different
mg/kg	Milligrams per kilogram
N/A	Not applicable; Indicates that statistical testing is contraindicated because of low detection frequency in at least one of the groups being compared; a minimum of four detected measurements was selected as the cutoff for conducting statistical testing, although it should be acknowledged that tests conducted in cases with low detection frequenices and/or a large disparity in sample size among groups being compared may still suffer from low power, and results should be interpreted with caution.
NT	Not tested; only two groups were compared (refer to results for individual two-group comparisons)
p	Probability (p value) assoicated with the Shapiro-Wilk W test performed on the residuals from the ANOVA; p values less than or equal to 0.05 result in rejection of the null
pCi/g	Pico Curies per gram
R	River Range
MC	McCullough Range

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MEMORANDUM

To: Brian Rakvica

From: Paul Duffy and Paul Black

Date: 07/22/2007

Subject: Revised Tables for Appendix G of the background report

The purpose of this memorandum is to provide supplemental tables for data presented in Appendix G of the March 16, 2007 draft of the "Background Shallow Soil Summary Report: BMI Complex and Common Areas Vicinity". The tables presented herein are meant to supplement the tables provided in Appendix G of the background report, and are, hence, numbered G-1A through G-8A, each table supplementing, in turn, Appendix G tables G-1 through G-8.

The main issue that these new summary tables address is presenting the radionuclides summary data without censoring. However, in so doing, the metals data have also been combined across both detects and non-detects. Non-detects are represented at the reported detection limits for these summary tables. The reason to present the supplemental tables for the radionuclide summary statistics is simply that these data were not originally censored, in which case it does not make sense to censor them for the Appendix G presentation.

For the metals, the reasoning is not so clear. However, the data might be used for background comparisons in the future, or they might be used to estimate background risk. For statistical tests or confidence bounds involving these data that also involve mean concentrations (e.g., t-tests for background comparisons, or estimation of background risk), it might be helpful to have tables of summary statistics that match the results of these statistical tests, rather than summary statistics tables that separate the non-detects from the detects. Of course, this requires a simple substitution rule for the non-detects data, which in the supplemental tables presented is the reported detection limit (other options exist, such as ½ the reported detection limit). We recognize that current UCL estimation methods include approaches that are based on survival analysis, and hence do not require substitution for censored data. However, background comparisons, which constitute the more likely use of these data, are not so easily addressed with methods that do not require substitution. These supplemental tables might help in those cases.

Table G-1A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	120	1	3740	6710	8420	8900	11200	15300
Antimony	120	0.41	0.0394	0.168	0.33	0.254	0.33	0.5
Arsenic	120	1	2.1	3.3	3.9	4.13	4.92	7.2
Barium	120	1	73	144	190	222	233	836
Beryllium	120	1	0.16	0.44	0.54	0.557	0.69	0.89
Boron	104	0.33	3.2	3.35	4.25	4.88	5.8	11.6
Cadmium	120	0.13	0.052	0.129	0.129	0.126	0.129	0.16
Calcium	104	1	8160	17500	23600	28100	35200	82800
Chloride	104	0.69	0.25	1.6	11.5	118	136	1110
Chromium	120	1	2.6	7	8.8	8.94	10.8	16.7
Chromium-hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	120	1	3.7	6.38	8.25	8.22	9.72	16.3
Copper	120	1	7.8	14.4	17.2	17.1	19.7	30.5
Fluoride	104	0.12	0.051	0.051	0.051	0.373	0.603	2.5
Iron	120	1	5410	10500	13000	12800	15100	19700
Lead	120	1	3	6.38	7.75	9.45	10.6	35.1
Lithium	104	1	7.5	10.8	12.8	13.8	16.1	26.5
Magnesium	120	1	4580	6970	9420	9500	11700	17500
Manganese	120	1	151	344	419	425	496	1090
Mercury	120	0.78	0.0072	0.00918	0.015	0.0184	0.022	0.11
Molybdenum	120	1	0.17	0.38	0.475	0.547	0.623	2
Nickel	120	1	7.8	11.4	15.3	15.1	17.6	30
Niobium	104	0	1.01	1.01	1.3	1.42	1.62	2.8
Nitrate	104	0.87	0.1	0.258	0.78	7.59	3.23	102
Nitrite	104	0.048	0.061	0.061	0.061	0.0652	0.061	0.21
Palladium	104	1	0.14	0.287	0.4	0.462	0.55	1.5
Phosphorus	104	1	636	1200	1460	1420	1650	2010
Platinum	104	0.048	0.0435	0.0435	0.0435	0.0448	0.0435	0.099
Potassium	104	1	625	1230	1540	1730	2060	3890
Selenium	120	0.43	0.0467	0.158	0.158	0.213	0.273	0.6
Silicon	104	1	335	563	720	981	1070	4150
Silver	120	0.13	0.019	0.261	0.261	0.233	0.261	0.261
Sodium	104	1	111	210	452	486	685	1320
Strontium	104	1	69	134	186	223	258	808
Sulfate	104	0.78	0.612	4.4	22.2	180	117	4130
Thallium	120	0.35	0.1	0.398	0.543	0.688	0.985	1.8
Thorium	16	1	4.6	5.22	5.65	5.88	6.42	7.7
Tin	104	0.99	0.187	0.4	0.485	0.477	0.552	0.8
Titanium	120	1	200	393	504	510	618	1010
Tungsten	104	0	0.49	0.887	1.05	1.18	1.5	2.5
Uranium	103	1	0.43	0.82	0.94	1	1.1	2.7
Vanadium	120	1	14.6	25.9	35.5	35.4	43.5	59.1
Zinc	120	1	15.4	28.5	37.1	37.2	43.1	121
Zirconium	104	1	60.1	112	125	126	145	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Actinium-228	120	1.11	1.54	1.77	1.8	2.04	3.4
Bismuth-212	120	0.29	0.772	0.97	1.01	1.25	1.82
Bismuth-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Bismuth-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Bismuth-214	120	0.52	0.8	0.925	0.95	1.08	1.62
Cobalt-57	104	-0.045	-0.00925	0.00065	1.35E-05	0.012	0.04
Cobalt-60	104	-0.073	-0.0173	0.003	0.00151	0.0208	0.082
Lead-210	120	-0.6	0.3	0.665	0.724	1.1	2.2
Lead-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Lead-212	120	0.94	1.28	1.47	1.5	1.72	2.11
Lead-214	120	0.61	0.83	0.93	0.967	1.07	1.72
Polonium-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Polonium-212	104	0.19	0.495	0.605	0.648	0.78	1.17
Polonium-214	104	0.52	0.807	0.93	0.962	1.09	1.62
Polonium-215	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Polonium-216	104	1.08	1.34	1.57	1.53	1.73	2.11
Polonium-218	104	0.494	0.892	1.06	1.11	1.25	2.36
Potassium-40	120	17.8	22.9	24.5	25.2	27.1	35
Protactinium-234	104	-0.34	-0.14	-0.08	-0.0784	-0.0175	0.13
Radium-226	104	0.494	0.892	1.06	1.11	1.25	2.36
Radium-228	84	0.946	1.67	1.96	1.92	2.17	2.94
Radium-223	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Radium-224	104	1.08	1.34	1.57	1.53	1.73	2.11
Thallium-207	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thallium-208	120	0.33	0.48	0.54	0.54	0.603	0.72
Thorium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thorium-228	120	1.07	1.48	1.71	1.69	1.9	2.28
Thorium-230	120	0.66	0.98	1.19	1.25	1.4	3.01
Thorium-231	104	0	0.043	0.0585	0.0655	0.0872	0.21
Thorium-232	120	1.05	1.41	1.57	1.61	1.8	2.23
Thorium-234	120	-0.53	0.745	1.25	1.17	1.62	2.5
Uranium-233/234	104	0.47	0.858	1.02	1.16	1.23	2.84
Uranium-234	16	0.53	0.665	0.775	0.772	0.85	1.11
Uranium-235	120	0	0.0428	0.059	0.0659	0.0892	0.21
Uranium-238	120	0.45	0.86	1.01	1.08	1.21	2.37

Table G-2A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 0 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	45	1	5530	7240	9950	9730	11600	13900
Antimony	45	0.58	0.0394	0.2	0.27	0.248	0.33	0.5
Arsenic	45	1	2.1	3	3.7	4.13	5.3	7.2
Barium	45	1	90.4	150	190	219	226	604
Beryllium	45	1	0.16	0.41	0.61	0.585	0.76	0.89
Boron	37	0.43	3.2	3.2	4.8	5.05	6	11.6
Cadmium	45	0.18	0.092	0.129	0.129	0.127	0.129	0.16
Calcium	37	1	10900	16100	19500	21600	25800	43200
Chloride	37	0.35	0.25	0.93	1.3	15.7	1.8	252
Chromium	45	1	3.6	8	10.8	10.4	12.8	16.7
Chromium-hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	45	1	4.1	7.3	8.8	8.46	9.5	14.6
Copper	45	1	8.1	16.3	18.5	17.8	19.6	25.9
Fluoride	37	0.054	0.051	0.051	0.051	0.147	0.051	1.1
Iron	45	1	8960	12100	14400	14000	16300	19700
Lead	45	1	6	9.1	10.9	13	15.7	35.1
Lithium	37	1	7.5	10	12.4	13.7	17.5	23.9
Magnesium	45	1	4880	8470	9750	10100	12100	17500
Manganese	45	1	263	407	455	472	506	1090
Mercury	45	0.89	0.0072	0.014	0.021	0.0218	0.027	0.082
Molybdenum	45	1	0.27	0.36	0.45	0.524	0.7	1.1
Nickel	45	1	8.4	13.8	16.6	16.5	18.1	30
Niobium	37	0	1.01	1.1	1.3	1.52	1.8	2.8
Nitrate	37	0.62	0.1	0.1	0.25	2.36	0.51	53.4
Nitrite	37	0.14	0.061	0.061	0.061	0.0729	0.061	0.21
Palladium	37	1	0.19	0.25	0.29	0.355	0.37	1.5
Phosphorus	37	1	636	1300	1520	1470	1630	1990
Platinum	37	0.027	0.0435	0.0435	0.0435	0.0445	0.0435	0.082
Potassium	37	1	1240	1620	1840	2240	2760	3890
Selenium	45	0.62	0.0467	0.158	0.19	0.245	0.32	0.6
Silicon	37	1	335	620	844	1390	1300	4150
Silver	45	0.18	0.036	0.261	0.261	0.224	0.261	0.261
Sodium	37	1	111	146	166	248	309	693
Strontium	37	1	86.8	119	143	168	166	808
Sulfate	37	0.46	0.612	2.1	3.3	58.3	10.5	857
Thallium	45	0.44	0.13	0.43	0.6	0.728	1	1.7
Thorium	8	1	5	5.22	6.1	5.95	6.42	7
Tin	37	1	0.28	0.51	0.55	0.55	0.61	0.8
Titanium	45	1	244	445	535	535	624	936
Tungsten	37	0	0.49	0.89	1	1.12	1.4	2.5
Uranium	37	1	0.43	0.8	0.89	0.913	1	1.8
Vanadium	45	1	15.7	26	35	35.2	42.1	57.3
Zinc	45	1	24.8	35.7	42.2	44	49.1	121
Zirconium	37	1	60.1	117	123	125	140	176

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Actinium-228	45	1.17	1.48	1.79	1.79	2.05	2.53
Bismuth-212	45	0.29	0.81	0.92	0.988	1.16	1.82
Bismuth-210	37	-0.3	0.4	0.63	0.766	1.1	2
Bismuth-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Bismuth-214	45	0.6	0.78	0.9	0.892	0.95	1.26
Cobalt-57	37	-0.031	-0.009	0.007	0.00249	0.013	0.03
Cobalt-60	37	-0.073	-0.025	-0.004	-0.00768	0.011	0.044
Lead-210	45	-0.3	0.5	0.8	0.896	1.5	2.2
Lead-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Lead-212	45	0.94	1.3	1.47	1.5	1.74	1.98
Lead-214	45	0.68	0.83	0.88	0.909	0.97	1.19
Polonium-210	37	-0.3	0.4	0.63	0.766	1.1	2
Polonium-212	37	0.19	0.5	0.58	0.62	0.7	1.16
Polonium-214	37	0.6	0.8	0.9	0.906	0.95	1.26
Polonium-215	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Polonium-216	37	1.08	1.36	1.61	1.55	1.76	1.98
Polonium-218	37	0.494	0.877	0.987	1.01	1.14	1.58
Potassium-40	45	20.3	23.5	24.5	25.3	27.5	34.4
Protactinium-234	37	-0.34	-0.15	-0.11	-0.0942	-0.03	0.12
Radium-226	37	0.494	0.877	0.987	1.01	1.14	1.58
Radium-228	30	1.11	1.72	1.94	1.93	2.09	2.94
Radium-223	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Radium-224	37	1.08	1.36	1.61	1.55	1.76	1.98
Thallium-207	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thallium-208	45	0.41	0.49	0.53	0.554	0.61	0.72
Thorium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thorium-228	45	1.15	1.52	1.76	1.74	1.92	2.28
Thorium-230	45	0.72	0.93	1.15	1.11	1.24	1.7
Thorium-231	37	0	0.042	0.059	0.0619	0.08	0.13
Thorium-232	45	1.13	1.51	1.71	1.68	1.82	2.23
Thorium-234	45	-0.26	0.71	1.12	1.12	1.68	2.07
Uranium-233/234	37	0.47	0.8	0.89	0.905	1	1.23
Uranium-234	8	0.53	0.632	0.74	0.789	0.955	1.11
Uranium-235	45	0	0.038	0.059	0.0622	0.088	0.13
Uranium-238	45	0.45	0.8	0.91	0.905	1.03	1.38

Table G-3A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	42	1	4840	6560	7770	8550	10900	15300
Antimony	42	0.26	0.0394	0.14	0.33	0.239	0.33	0.35
Arsenic	42	1	2.3	3.33	3.7	3.86	4.4	6.1
Barium	42	1	73	149	214	230	270	561
Beryllium	42	1	0.25	0.443	0.5	0.528	0.618	0.77
Boron	34	0.29	3.2	3.2	4.1	4.71	5.7	9.1
Cadmium	42	0.19	0.052	0.129	0.129	0.122	0.129	0.14
Calcium	34	1	8160	16600	22600	29300	36900	82800
Chloride	34	0.82	0.25	2.42	25.2	182	231	1060
Chromium	42	1	3.1	6.4	7.7	7.94	9.68	12.1
Chromium-hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	42	1	3.9	6.05	7.3	7.78	9.62	14.8
Copper	42	1	7.8	13.2	15.3	16.1	19.7	30.5
Fluoride	34	0.15	0.051	0.051	0.315	0.474	0.767	2.1
Iron	42	1	6350	9440	12100	12200	14400	18800
Lead	42	1	4.9	6.5	7.1	8.13	9.18	23.3
Lithium	34	1	8.5	10.6	11.7	12.6	14.4	21.3
Magnesium	42	1	4580	5710	8080	8320	10900	13600
Manganese	42	1	183	305	374	405	491	863
Mercury	42	0.69	0.0072	0.0072	0.0135	0.0149	0.0198	0.034
Molybdenum	42	1	0.17	0.35	0.445	0.523	0.573	2
Nickel	42	1	7.8	10.8	13.1	13.9	16.4	22.7
Niobium	34	0	1.01	1.01	1.35	1.48	1.77	2.8
Nitrate	34	1	0.13	0.652	1.3	14.8	11.7	102
Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	34	1	0.14	0.325	0.435	0.433	0.517	0.84
Phosphorus	34	1	842	1160	1470	1410	1720	2010
Platinum	34	0.059	0.0435	0.0435	0.0435	0.0452	0.0435	0.099
Potassium	34	1	872	1130	1370	1610	2070	3260
Selenium	42	0.4	0.0467	0.158	0.158	0.197	0.253	0.4
Silicon	34	1	399	539	720	743	849	1360
Silver	42	0.19	0.019	0.261	0.261	0.22	0.261	0.261
Sodium	34	1	179	408	502	574	728	1320
Strontium	34	1	69	156	210	206	251	441
Sulfate	34	0.91	2.2	8.05	55.8	208	176	3240
Thallium	42	0.36	0.1	0.34	0.543	0.648	0.777	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	34	1	0.2	0.4	0.445	0.455	0.53	0.75
Titanium	42	1	213	366	476	497	598	1010
Tungsten	34	0	0.64	0.902	1.05	1.21	1.5	2.2
Uranium	33	1	0.67	0.81	1	0.963	1.1	1.3
Vanadium	42	1	14.6	25.4	33.5	33.7	42.3	59.1
Zinc	42	1	17.6	26.1	33.6	34.1	41.3	52.4
Zirconium	34	1	78.9	116	133	132	148	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Actinium-228	42	1.11	1.65	1.82	1.85	2.04	2.66
Bismuth-212	42	0.31	0.797	0.97	1.02	1.22	1.82
Bismuth-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Bismuth-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Bismuth-214	42	0.57	0.8	0.945	0.948	1.07	1.48
Cobalt-57	34	-0.045	-0.014	-0.004	-0.00611	0.005	0.022
Cobalt-60	34	-0.055	-0.0165	-0.0035	0.00173	0.0222	0.071
Lead-210	42	-0.5	0.12	0.43	0.57	0.98	2.2
Lead-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Lead-212	42	1	1.25	1.44	1.46	1.65	1.93
Lead-214	42	0.62	0.8	0.885	0.933	1.03	1.72
Polonium-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Polonium-212	34	0.34	0.522	0.61	0.658	0.78	1.17
Polonium-214	34	0.64	0.805	0.945	0.956	1.07	1.48
Polonium-215	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Polonium-216	34	1.08	1.29	1.53	1.51	1.72	1.93
Polonium-218	34	0.577	0.887	1.08	1.07	1.2	1.82
Potassium-40	42	17.8	22.9	25.2	25.6	28	35
Protactinium-234	34	-0.31	-0.147	-0.085	-0.0835	-0.00875	0.06
Radium-226	34	0.577	0.887	1.08	1.07	1.2	1.82
Radium-228	29	1.15	1.5	2	1.88	2.21	2.42
Radium-223	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Radium-224	34	1.08	1.29	1.53	1.51	1.72	1.93
Thallium-207	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thallium-208	42	0.33	0.48	0.57	0.537	0.6	0.66
Thorium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thorium-228	42	1.07	1.52	1.75	1.72	1.95	2.15
Thorium-230	42	0.75	1.05	1.16	1.21	1.36	2.44
Thorium-231	34	9.00E-04	0.0408	0.0525	0.0574	0.0813	0.13
Thorium-232	42	1.1	1.41	1.56	1.6	1.78	2.06
Thorium-234	42	-0.53	0.695	0.985	1.04	1.57	2.3
Uranium-233/234	34	0.75	0.92	1.07	1.13	1.21	2.44
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	42	9.00E-04	0.0408	0.055	0.0587	0.0825	0.13
Uranium-238	42	0.45	0.87	1.02	1.04	1.17	1.95

Table G-4A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	33	1	3740	6370	7880	8220	10300	13300
Antimony	33	0.36	0.12	0.25	0.33	0.282	0.33	0.41
Arsenic	33	1	3.1	3.7	4.2	4.47	5.3	6.7
Barium	33	1	82.5	139	171	218	202	836
Beryllium	33	1	0.29	0.46	0.53	0.555	0.63	0.89
Boron	33	0.24	3.2	3.7	4.3	4.86	5.1	10.2
Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129
Calcium	33	1	17900	22800	32000	34300	44800	70200
Chloride	33	0.94	1.6	21.7	35.9	168	254	1110
Chromium	33	1	2.6	7.4	8.2	8.15	9.4	14.1
Chromium-hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	33	1	3.7	6.1	8.9	8.46	10.2	16.3
Copper	33	1	10.2	14.6	17	17.2	19.8	23.9
Fluoride	33	0.18	0.051	0.051	0.31	0.521	0.77	2.5
Iron	33	1	5410	9180	12300	11900	14300	19100
Lead	33	1	3	5.6	6	6.29	6.8	11.7
Lithium	33	1	9.9	11.8	13.4	15.3	16.5	26.5
Magnesium	33	1	5240	6680	10900	10200	12700	16900
Manganese	33	1	151	327	398	386	465	641
Mercury	33	0.73	0.0072	0.0072	0.011	0.0183	0.015	0.11
Molybdenum	33	1	0.33	0.45	0.54	0.608	0.63	1.9
Nickel	33	1	7.9	11.5	14.7	14.8	17.9	22.1
Niobium	33	0	1.01	1.01	1.1	1.25	1.4	2
Nitrate	33	1	0.11	0.67	1.5	5.99	3.8	42.1
Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	33	1	0.25	0.4	0.55	0.61	0.84	1.2
Phosphorus	33	1	722	1070	1370	1350	1640	1960
Platinum	33	0.061	0.0435	0.0435	0.0435	0.0447	0.0435	0.064
Potassium	33	1	625	966	1250	1290	1380	2270
Selenium	33	0.21	0.158	0.158	0.158	0.191	0.158	0.4
Silicon	33	1	423	572	680	764	883	1380
Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261
Sodium	33	1	196	522	662	661	802	1190
Strontium	33	1	114	199	258	302	406	684
Sulfate	33	1	8.6	21.2	49.8	286	124	4130
Thallium	33	0.21	0.21	0.4	0.543	0.685	0.93	1.6
Thorium	33	0.97	0.187	0.36	0.4	0.416	0.51	0.63
Tin	33	1	200	402	490	493	597	858
Titanium	33	0	0.51	0.89	1.1	1.2	1.5	2.1
Tungsten	33	1	0.68	0.89	0.95	1.14	1.3	2.7
Uranium	33	1	19.2	30.5	38.8	37.9	45.6	57.5
Vanadium	33	1	15.4	23.9	34.1	31.9	39.6	51.7
Zinc	33	1	68.4	102	123	122	145	177
Zirconium	33	1	3740	6370	7880	8220	10300	13300

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Actinium-228	33	1.18	1.48	1.71	1.77	2	3.4
Bismuth-212	33	0.52	0.74	1.06	1.04	1.36	1.69
Bismuth-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Bismuth-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Bismuth-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Cobalt-57	33	-0.032	-0.005	0.002	0.00354	0.012	0.04
Cobalt-60	33	-0.042	-0.009	0.011	0.0116	0.028	0.082
Lead-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Lead-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Lead-212	33	1.08	1.33	1.58	1.54	1.72	2.11
Lead-214	33	0.61	0.91	1.01	1.09	1.24	1.68
Polonium-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Polonium-212	33	0.33	0.47	0.68	0.668	0.87	1.08
Polonium-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Polonium-215	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Polonium-216	33	1.08	1.33	1.58	1.54	1.72	2.11
Polonium-218	33	0.507	0.939	1.22	1.27	1.54	2.36
Potassium-40	33	18.4	22.4	24.5	24.4	26	31.1
Protactinium-234	33	-0.25	-0.1	-0.04	-0.0555	-0.01	0.13
Radium-226	33	0.507	0.939	1.22	1.27	1.54	2.36
Radium-228	25	0.946	1.73	2.02	1.94	2.14	2.92
Radium-223	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Radium-224	33	1.08	1.33	1.58	1.54	1.72	2.11
Thallium-207	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thallium-208	33	0.37	0.43	0.53	0.526	0.6	0.72
Thorium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thorium-228	33	1.16	1.38	1.5	1.57	1.82	2.13
Thorium-230	33	0.66	1.03	1.5	1.47	1.67	3.01
Thorium-231	33	0	0.047	0.076	0.0779	0.1	0.21
Thorium-232	33	1.05	1.34	1.5	1.55	1.77	2.1
Thorium-234	33	0.24	1.19	1.44	1.38	1.66	2.5
Uranium-233/234	33	0.58	1.04	1.25	1.48	1.9	2.84
Uranium-235	33	0	0.047	0.077	0.0802	0.101	0.21
Uranium-238	33	0.58	1.05	1.36	1.39	1.59	2.37

Table G-5A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 and 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	75	1	3740	6500	7880	8400	10700	15300
Antimony	75	0.31	0.0394	0.155	0.33	0.258	0.33	0.41
Arsenic	75	1	2.3	3.4	3.9	4.13	4.8	6.7
Barium	75	1	73	142	188	225	242	836
Beryllium	75	1	0.25	0.445	0.5	0.54	0.625	0.89
Boron	67	0.27	3.2	3.5	4.2	4.78	5.45	10.2
Cadmium	75	0.11	0.052	0.129	0.129	0.125	0.129	0.14
Calcium	67	1	8160	19000	28800	31800	42500	82800
Chloride	67	0.88	0.25	5.15	33.1	175	245	1110
Chromium	75	1	2.6	6.4	8.1	8.03	9.6	14.1
Chromium-hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	75	1	3.7	6.05	7.9	8.08	9.95	16.3
Copper	75	1	7.8	13.7	16.1	16.6	19.8	30.5
Fluoride	67	0.16	0.051	0.051	0.31	0.497	0.77	2.5
Iron	75	1	5410	9400	12300	12100	14400	19100
Lead	75	1	3	5.9	6.7	7.32	7.8	23.3
Lithium	67	1	8.5	11.3	12.8	13.9	15.8	26.5
Magnesium	75	1	4580	6140	9360	9150	11600	16900
Manganese	75	1	151	306	383	397	483	863
Mercury	75	0.71	0.0072	0.0072	0.012	0.0164	0.019	0.11
Molybdenum	75	1	0.17	0.385	0.49	0.56	0.605	2
Nickel	75	1	7.8	11.2	13.8	14.3	17.4	22.7
Niobium	67	0	1.01	1.01	1.3	1.37	1.6	2.8
Nitrate	67	1	0.11	0.655	1.5	10.5	6.4	102
Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	67	1	0.14	0.345	0.49	0.52	0.69	1.2
Phosphorus	67	1	722	1100	1420	1380	1660	2010
Platinum	67	0.06	0.0435	0.0435	0.0435	0.045	0.0435	0.099
Potassium	67	1	625	1100	1310	1450	1760	3260
Selenium	75	0.32	0.0467	0.158	0.158	0.194	0.21	0.4
Silicon	67	1	399	547	690	753	880	1380
Silver	75	0.11	0.019	0.261	0.261	0.238	0.261	0.261
Sodium	67	1	179	434	615	617	780	1320
Strontium	67	1	69	160	219	253	332	684
Sulfate	67	0.96	2.2	14.9	49.8	246	145	4130
Thallium	75	0.29	0.1	0.395	0.543	0.665	0.915	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	67	0.99	0.187	0.385	0.43	0.436	0.52	0.75
Titanium	75	1	200	372	490	495	598	1010
Tungsten	67	0	0.51	0.885	1.1	1.21	1.5	2.2
Uranium	66	1	0.67	0.84	0.995	1.05	1.18	2.7
Vanadium	75	1	14.6	26.8	35.9	35.6	44	59.1
Zinc	75	1	15.4	25.6	34.1	33.2	40.2	52.4
Zirconium	67	1	68.4	108	126	127	147	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Actinium-228	75	1.11	1.55	1.76	1.82	2.04	3.4
Bismuth-212	75	0.31	0.75	0.99	1.03	1.31	1.82
Bismuth-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Bismuth-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Bismuth-214	75	0.52	0.815	0.97	0.984	1.14	1.62
Cobalt-57	67	-0.045	-0.01	-9.00E-04	-0.00136	0.011	0.04
Cobalt-60	67	-0.055	-0.016	0.007	0.00658	0.026	0.082
Lead-210	75	-0.6	0.2	0.6	0.621	0.955	2.2
Lead-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Lead-212	75	1	1.26	1.45	1.49	1.71	2.11
Lead-214	75	0.61	0.83	0.97	1	1.12	1.72
Polonium-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Polonium-212	67	0.33	0.49	0.63	0.663	0.85	1.17
Polonium-214	67	0.52	0.82	0.97	0.992	1.14	1.62
Polonium-215	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Polonium-216	67	1.08	1.29	1.54	1.52	1.72	2.11
Polonium-218	67	0.507	0.939	1.12	1.17	1.33	2.36
Potassium-40	75	17.8	22.7	24.5	25.1	27	35
Protactinium-234	67	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13
Radium-226	67	0.507	0.939	1.12	1.17	1.33	2.36
Radium-228	54	0.946	1.62	2	1.91	2.18	2.92
Radium-223	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Radium-224	67	1.08	1.29	1.54	1.52	1.72	2.11
Thallium-207	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thallium-208	75	0.33	0.455	0.54	0.532	0.6	0.72
Thorium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thorium-228	75	1.07	1.42	1.66	1.66	1.89	2.15
Thorium-230	75	0.66	1.04	1.21	1.32	1.55	3.01
Thorium-231	67	0	0.043	0.058	0.0675	0.088	0.21
Thorium-232	75	1.05	1.36	1.52	1.57	1.77	2.1
Thorium-234	75	-0.53	0.76	1.3	1.19	1.6	2.5
Uranium-233/234	67	0.58	0.945	1.16	1.3	1.52	2.84
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	75	0	0.043	0.058	0.0681	0.0895	0.21
Uranium-238	75	0.45	0.935	1.07	1.19	1.41	2.37

Table G-6A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	101	1	3740	6820	8470	9130	11400	15300
Antimony	101	0.43	0.0394	0.21	0.33	0.275	0.33	0.5
Arsenic	101	1	2.1	3.4	3.9	4.11	4.9	7.2
Barium	101	1	73	141	175	182	216	465
Beryllium	101	1	0.16	0.45	0.54	0.581	0.72	0.89
Boron	95	0.36	3.2	3.45	4.4	5	5.9	11.6
Cadmium	101	0.059	0.095	0.129	0.129	0.128	0.129	0.16
Calcium	95	1	9440	18400	24500	29000	36400	82800
Chloride	95	0.72	0.25	1.6	16.3	128	150	1110
Chromium	101	1	2.6	6.9	9	9.03	11.1	16.7
Chromium-hexavalent	95	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	101	1	3.7	7.1	8.8	8.67	9.9	16.3
Copper	101	1	10.1	14.7	17.6	17.5	19.9	25.9
Fluoride	95	0.14	0.051	0.051	0.051	0.404	0.65	2.5
Iron	101	1	5410	10700	13500	13200	15500	19700
Lead	101	1	3	6.2	7.3	8.47	9.4	35.1
Lithium	95	1	7.5	10.8	12.9	14	16.8	26.5
Magnesium	101	1	4690	8450	10200	10200	12300	17500
Manganese	101	1	151	339	409	416	489	863
Mercury	101	0.78	0.0072	0.0092	0.014	0.019	0.023	0.11
Molybdenum	101	1	0.17	0.39	0.48	0.533	0.6	2
Nickel	101	1	7.9	13	16	15.9	18.1	30
Niobium	95	0	1.01	1.01	1.3	1.43	1.7	2.8
Nitrate	95	0.87	0.1	0.295	0.9	8.27	3.6	102
Nitrite	95	0.053	0.061	0.061	0.061	0.0656	0.061	0.21
Palladium	95	1	0.16	0.3	0.42	0.48	0.575	1.5
Phosphorus	95	1	862	1260	1490	1470	1680	2010
Platinum	95	0.053	0.0435	0.0435	0.0435	0.0449	0.0435	0.099
Potassium	95	1	625	1180	1580	1750	2170	3890
Selenium	101	0.39	0.1	0.158	0.158	0.215	0.27	0.6
Silicon	95	1	335	556	721	1010	1110	4150
Silver	101	0.059	0.043	0.261	0.261	0.249	0.261	0.261
Sodium	95	1	128	230	487	498	688	1320
Strontium	95	1	75.5	144	192	232	264	808
Sulfate	95	0.79	0.612	4.4	29.2	196	124	4130
Thallium	101	0.27	0.13	0.44	0.543	0.709	0.98	1.8
Thorium	6	1	5.3	5.42	6.3	6.25	6.95	7.3
Tin	95	1	0.24	0.41	0.51	0.498	0.565	0.8
Titanium	101	1	262	446	533	552	651	1010
Tungsten	95	0	0.49	0.89	1.1	1.2	1.5	2.5
Uranium	94	1	0.62	0.843	0.97	1.03	1.1	2.7
Vanadium	101	1	20.2	32.6	36.9	38.3	44.9	59.1
Zinc	101	1	15.4	31.1	38.9	38.5	43.8	121
Zirconium	95	1	86.1	116	129	131	146	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Actinium-228	101	1.18	1.61	1.81	1.87	2.05	3.4
Bismuth-212	101	0.29	0.81	0.99	1.03	1.3	1.82
Bismuth-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Bismuth-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Bismuth-214	101	0.6	0.85	0.96	0.985	1.12	1.62
Cobalt-57	95	-0.045	-0.0095	0.001	0.000414	0.012	0.04
Cobalt-60	95	-0.073	-0.0175	0.003	0.000611	0.021	0.071
Lead-210	101	-0.5	0.3	0.6	0.693	1.1	2.2
Lead-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Lead-212	101	1.08	1.37	1.58	1.55	1.73	2.11
Lead-214	101	0.69	0.86	0.96	1	1.1	1.72
Polonium-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Polonium-212	95	0.19	0.515	0.63	0.66	0.835	1.17
Polonium-214	95	0.6	0.845	0.95	0.984	1.13	1.62
Polonium-215	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Polonium-216	95	1.08	1.37	1.61	1.56	1.74	2.11
Polonium-218	95	0.494	0.956	1.09	1.15	1.27	2.36
Potassium-40	101	17.8	22.6	24.1	24.3	25.8	30.5
Protactinium-234	95	-0.34	-0.14	-0.08	-0.0789	-0.01	0.13
Radium-226	95	0.494	0.956	1.09	1.15	1.27	2.36
Radium-228	81	0.946	1.66	1.93	1.89	2.14	2.92
Radium-223	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Radium-224	95	1.08	1.37	1.61	1.56	1.74	2.11
Thallium-207	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thallium-208	101	0.37	0.48	0.57	0.554	0.61	0.72
Thorium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thorium-228	101	1.15	1.52	1.78	1.74	1.93	2.28
Thorium-230	101	0.73	1.05	1.21	1.29	1.46	3.01
Thorium-231	95	0	0.043	0.059	0.0663	0.0885	0.21
Thorium-232	101	1.22	1.45	1.66	1.66	1.84	2.23
Thorium-234	101	-0.53	0.85	1.35	1.27	1.71	2.5
Uranium-233/234	95	0.63	0.9	1.07	1.2	1.24	2.84
Uranium-234	6	0.8	0.85	0.92	0.935	1	1.11
Uranium-235	101	0	0.043	0.059	0.0672	0.09	0.21
Uranium-238	101	0.65	0.92	1.05	1.16	1.31	2.37

Table G-7A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ River Mountain Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	8	1	6820	7470	8940	9000	10100	12000
Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394
Arsenic	8	1	2.6	3.1	3.35	3.36	3.58	4.3
Barium	8	1	322	346	372	392	401	561
Beryllium	8	1	0.25	0.287	0.3	0.32	0.347	0.43
Cadmium	8	1	0.052	0.0732	0.0955	0.0943	0.113	0.14
Chromium	8	1	4.3	7.05	7.6	7.88	8.47	12.4
Cobalt	8	1	3.9	4.05	4.15	4.39	4.62	5.6
Copper	8	1	7.8	8.1	8.6	9.54	9.15	16.3
Iron	8	1	7520	8640	9320	9410	10200	11800
Lead	8	1	7	13.6	18	17.5	23.4	23.5
Magnesium	8	1	4630	4830	5240	5700	6260	7810
Manganese	8	1	223	368	410	424	532	546
Mercury	8	1	0.013	0.0187	0.02	0.02	0.0225	0.024
Molybdenum	8	1	0.22	0.25	0.275	0.292	0.328	0.42
Nickel	8	1	7.8	8.62	9.65	10.2	10.9	15.4
Selenium	8	0.62	0.0467	0.0467	0.105	0.0963	0.115	0.18
Silver	8	1	0.019	0.033	0.0365	0.0424	0.0473	0.076
Thallium	8	1	0.1	0.13	0.14	0.141	0.152	0.18
Thorium	8	1	4.6	4.97	5.25	5.66	6.3	7.7
Titanium	8	1	235	277	298	310	310	473
Vanadium	8	1	14.6	15.5	16.3	16.5	17.6	18.6
Zinc	8	1	23	26.8	29.4	30.5	32.9	40.6

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-228	8	1.11	1.27	1.36	1.45	1.57	1.9
Bismuth-212	8	0.31	0.75	0.82	0.836	0.968	1.27
Bismuth-214	8	0.57	0.7	0.765	0.765	0.848	0.93
Lead-210	8	0.7	0.855	1.45	1.39	1.82	2.2
Lead-212	8	0.94	1.04	1.09	1.13	1.24	1.36
Lead-214	8	0.62	0.675	0.75	0.752	0.85	0.86
Potassium-40	8	24.9	26.4	29.3	28.8	29.8	34.4
Thallium-208	8	0.33	0.355	0.455	0.434	0.492	0.54
Thorium-228	8	1.07	1.26	1.42	1.37	1.5	1.52
Thorium-230	8	0.9	0.95	1.14	1.1	1.21	1.35
Thorium-232	8	1.1	1.21	1.37	1.35	1.49	1.58
Thorium-234	8	-0.002	0.182	0.365	0.368	0.575	0.71
Uranium-234	8	0.53	0.568	0.66	0.65	0.713	0.81
Uranium-235	8	0.016	0.0437	0.056	0.0592	0.076	0.103
Uranium-238	8	0.45	0.555	0.67	0.674	0.8	0.92

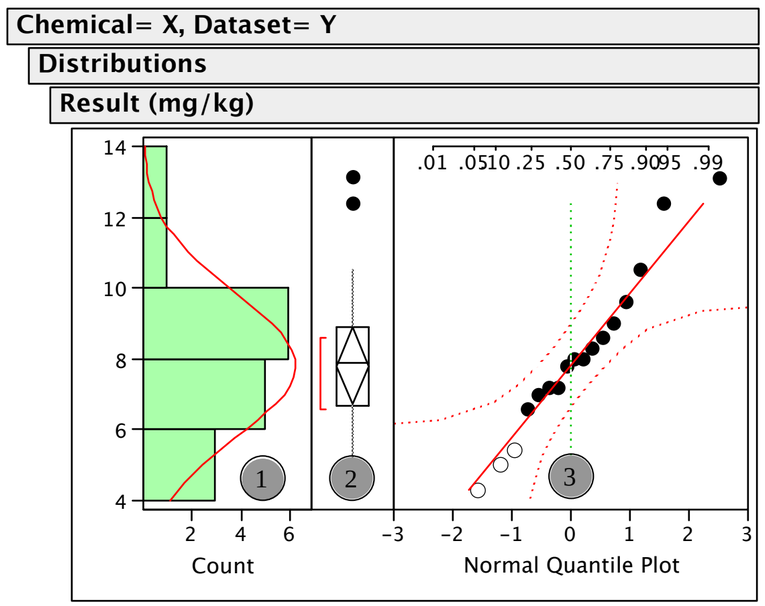
Table G-8A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

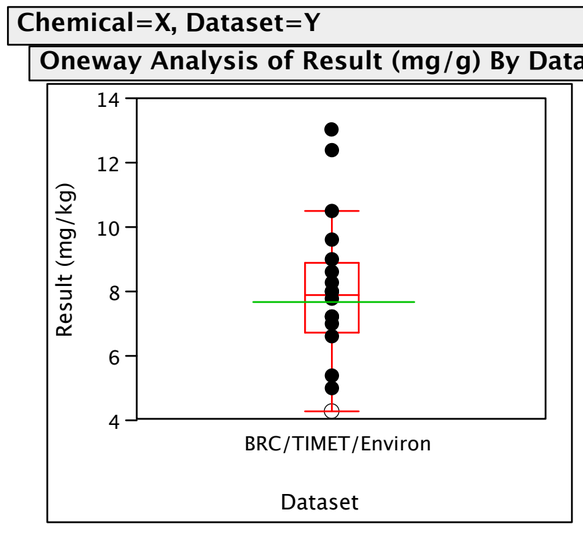
Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	11	1	4840	5500	6180	6700	6340	10900
Antimony	11	0.55	0.0394	0.13	0.22	0.222	0.33	0.44
Arsenic	11	1	2.9	4.55	5.3	4.87	5.6	5.9
Barium	11	1	211	358	424	468	588	836
Beryllium	11	1	0.38	0.445	0.52	0.504	0.55	0.62
Boron	9	0	3.2	3.2	3.4	3.64	4	4.4
Cadmium	11	0.18	0.11	0.129	0.129	0.128	0.129	0.14
Calcium	9	1	8160	10900	16100	18600	26600	36400
Chloride	9	0.44	0.86	0.96	1.7	11.3	20	37.7
Chromium	11	1	5	7.85	8.8	8.86	10	11.7
Chromium-hexavalent	9	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	11	1	5.1	5.4	6.1	6.91	7.15	12.3
Copper	11	1	11.1	15.9	18.3	18.6	20.9	30.5
Fluoride	9	0	0.051	0.051	0.051	0.051	0.051	0.051
Iron	11	1	9180	10900	11200	11700	13400	14000
Lead	11	1	8.9	9.25	9.9	12.6	14.9	21
Lithium	9	1	9.1	10.9	11.7	11.8	13.2	14.9
Magnesium	11	1	4580	5170	5450	6060	6760	9090
Manganese	11	1	345	418	469	507	498	1090
Mercury	11	0.55	0.0072	0.0072	0.0097	0.0118	0.016	0.019
Molybdenum	11	1	0.22	0.78	0.9	0.859	1.03	1.3
Nickel	11	1	8.9	10.8	11.3	11.3	11.8	13.8
Niobium	9	0	1.01	1.01	1.01	1.3	1.5	2.4
Nitrate	9	0.78	0.1	0.11	0.2	0.372	0.59	1
Nitrite	9	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	9	1	0.14	0.19	0.22	0.266	0.34	0.48
Phosphorus	9	1	636	727	804	798	842	984
Platinum	9	0	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435
Potassium	9	1	1240	1240	1380	1470	1580	1840
Selenium	11	0.73	0.0467	0.164	0.26	0.28	0.395	0.59
Silicon	9	1	527	680	690	708	789	883
Silver	11	0.18	0.048	0.261	0.261	0.223	0.261	0.261
Sodium	9	1	111	146	265	352	432	901
Strontium	9	1	69	86.8	92	122	160	219
Sulfate	9	0.67	2.7	3.4	7.9	10.7	17.9	27.6
Thallium	11	0.64	0.12	0.885	0.95	0.894	1.1	1.4
Thorium	2	1	5.4	5.53	5.65	5.65	5.78	5.9
Tin	9	0.89	0.187	0.21	0.22	0.247	0.28	0.34
Titanium	11	1	200	220	244	272	306	398
Tungsten	9	0	0.68	0.78	0.9	0.937	0.99	1.5
Uranium	9	1	0.43	0.63	0.71	0.678	0.74	0.84
Vanadium	11	1	19.2	21.7	23.2	23	24.3	26
Zinc	11	1	21.4	23.9	25.2	30.7	35	52.4
Zirconium	9	1	60.1	66.1	69	75.2	85.6	92.9

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Actinium-228	11	1.17	1.3	1.42	1.46	1.66	1.78
Bismuth-212	11	0.52	0.685	0.92	0.953	1.14	1.72
Bismuth-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Bismuth-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Bismuth-214	11	0.52	0.705	0.73	0.754	0.78	1.14
Cobalt-57	9	-0.036	-0.008	-0.004	-0.00421	0.001	0.015
Cobalt-60	9	-0.031	-0.007	0.014	0.011	0.02	0.082
Lead-210	11	-0.6	0.08	0.4	0.528	1.06	1.5
Lead-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Lead-212	11	1.08	1.14	1.22	1.25	1.35	1.44
Lead-214	11	0.61	0.695	0.79	0.805	0.835	1.23
Polonium-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Polonium-212	9	0.33	0.44	0.46	0.522	0.6	0.74
Polonium-214	9	0.52	0.71	0.73	0.72	0.76	0.8
Polonium-215	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Polonium-216	9	1.08	1.11	1.21	1.22	1.34	1.44
Polonium-218	9	0.583	0.63	0.756	0.735	0.835	0.926
Potassium-40	11	28.8	30.5	31	31.1	31.2	35
Protactinium-234	9	-0.17	-0.12	-0.06	-0.0733	-0.03	-0.01
Radium-226	9	0.583	0.63	0.756	0.735	0.835	0.926
Radium-228	3	2.14	2.28	2.42	2.5	2.68	2.94
Radium-223	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Radium-224	9	1.08	1.11	1.21	1.22	1.34	1.44
Thallium-207	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thallium-208	11	0.39	0.47	0.5	0.495	0.53	0.59
Thorium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thorium-228	11	1.17	1.31	1.44	1.46	1.57	1.9
Thorium-230	11	0.66	0.78	0.84	0.905	1.02	1.37
Thorium-231	9	0.021	0.046	0.053	0.0574	0.054	0.13
Thorium-232	11	1.05	1.27	1.44	1.42	1.47	1.93
Thorium-234	11	-0.15	0.54	0.82	0.795	1.29	1.44
Uranium-233/234	9	0.47	0.68	0.75	0.728	0.8	0.9
Uranium-234	2	0.76	0.767	0.775	0.775	0.782	0.79
Uranium-235	11	0.021	0.0405	0.053	0.0594	0.07	0.13
Uranium-238	11	0.57	0.615	0.66	0.719	0.815	0.94

KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-1

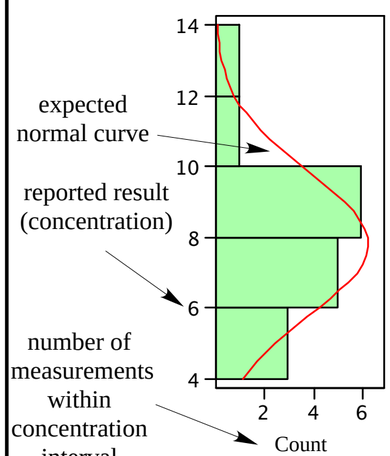
Example Figures From Appendix



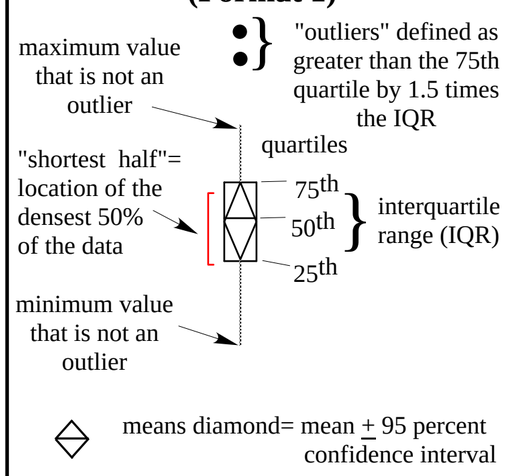


Keys to Individual Figure Panels

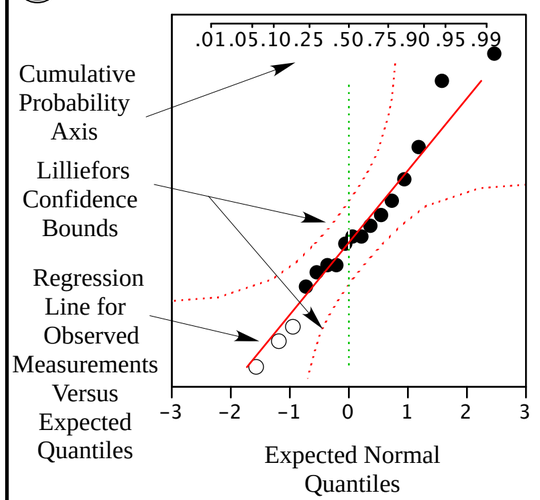
1 Frequency Histogram



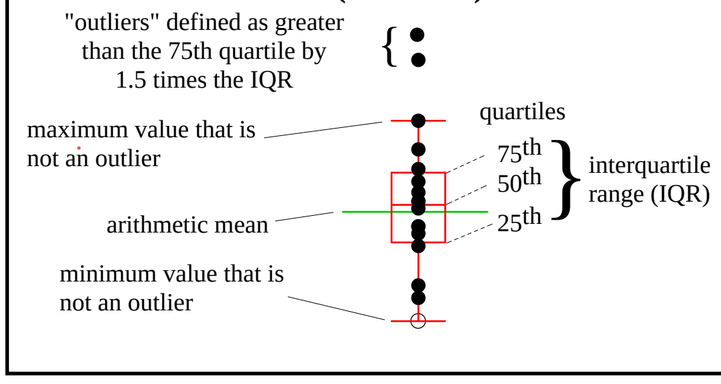
2 Outlier Box-Plot (Format 1)



3 Normal Quantile Plot



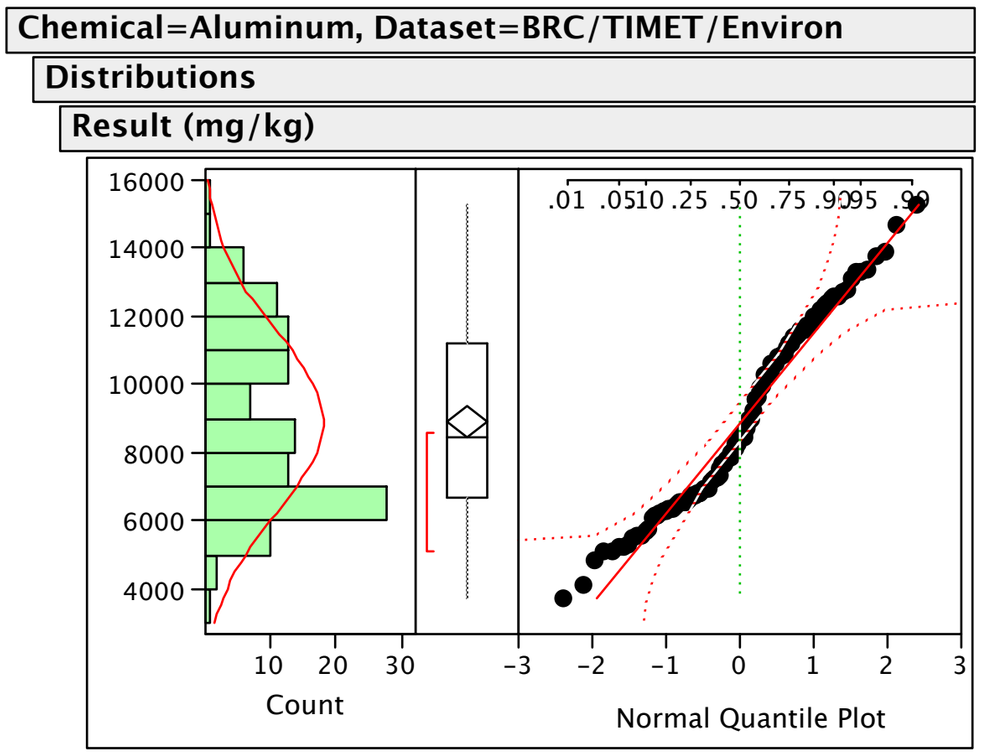
Outlier Box-Plot (Format 2)

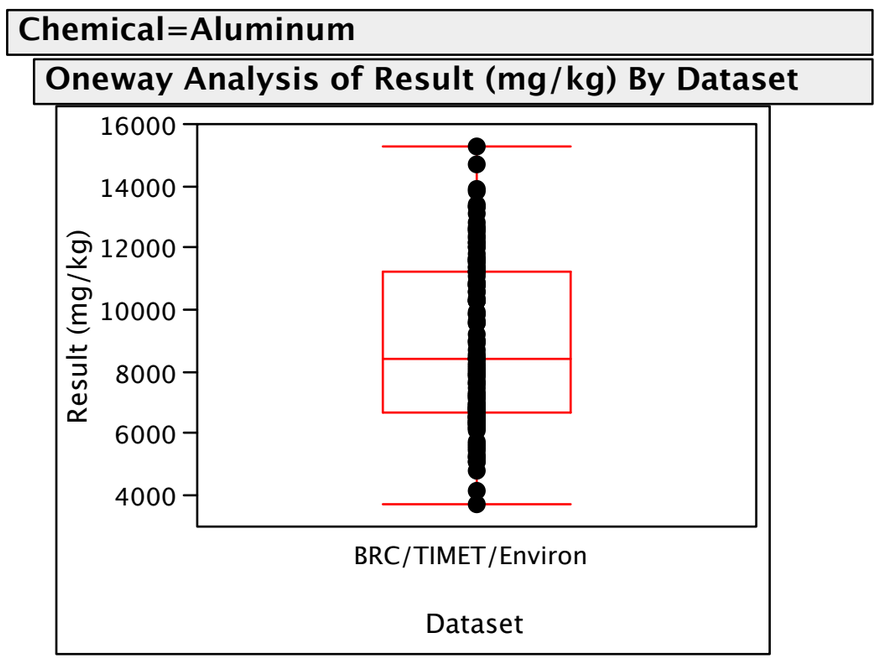


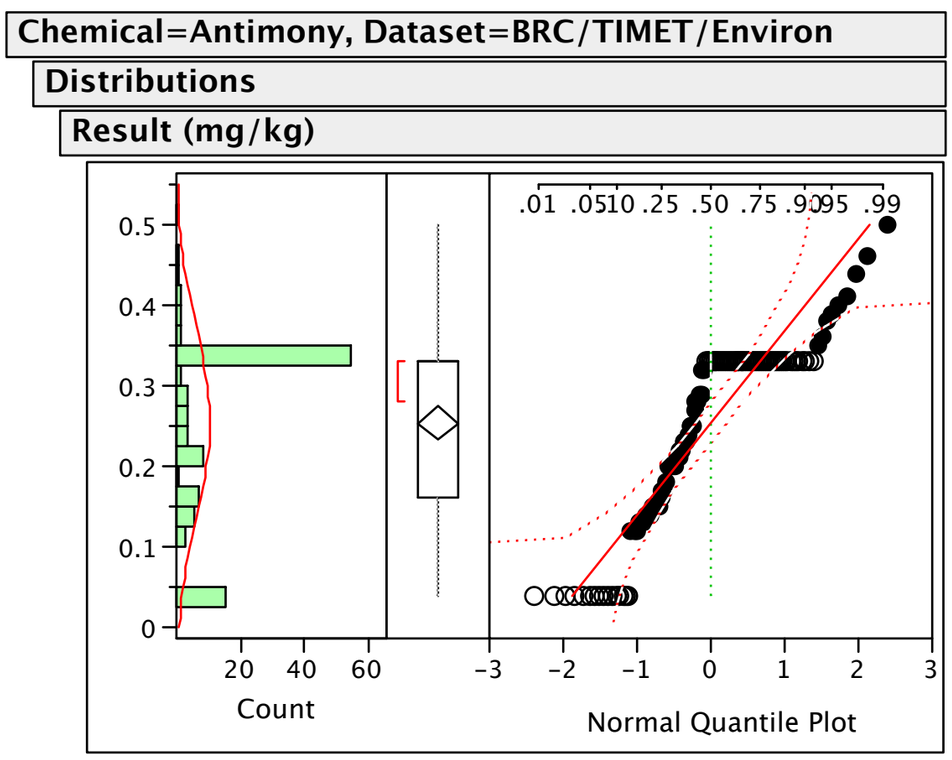
- ● detected result
- ○ censored result

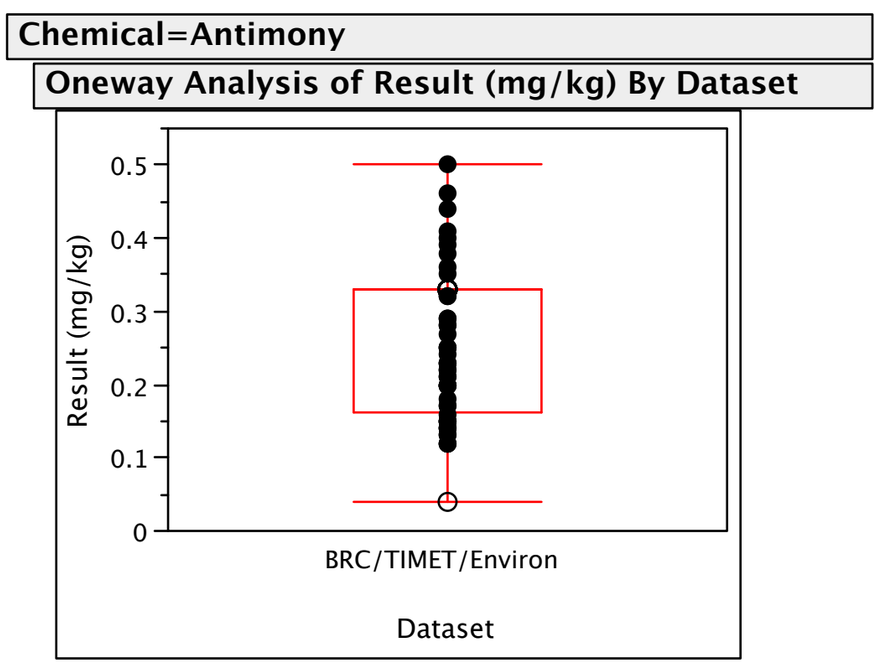
FIGURE G-1

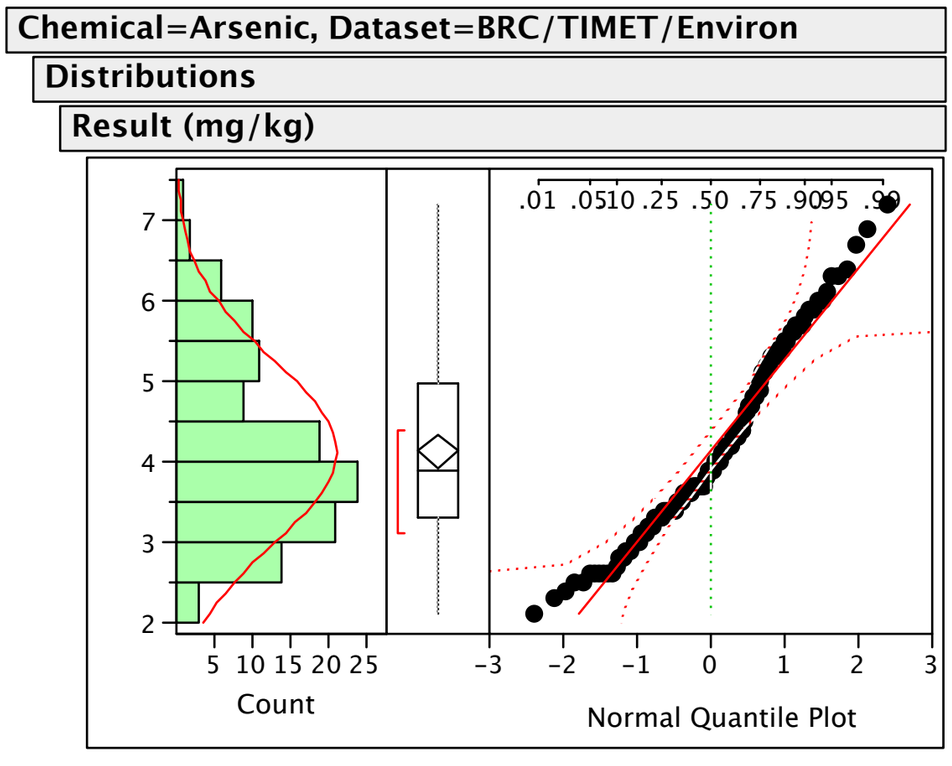
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











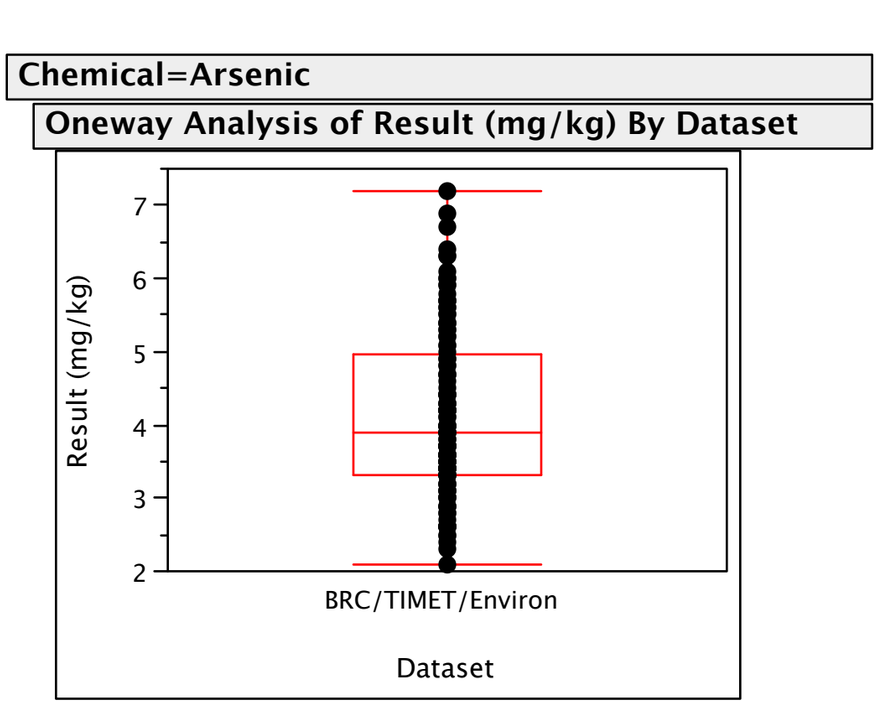
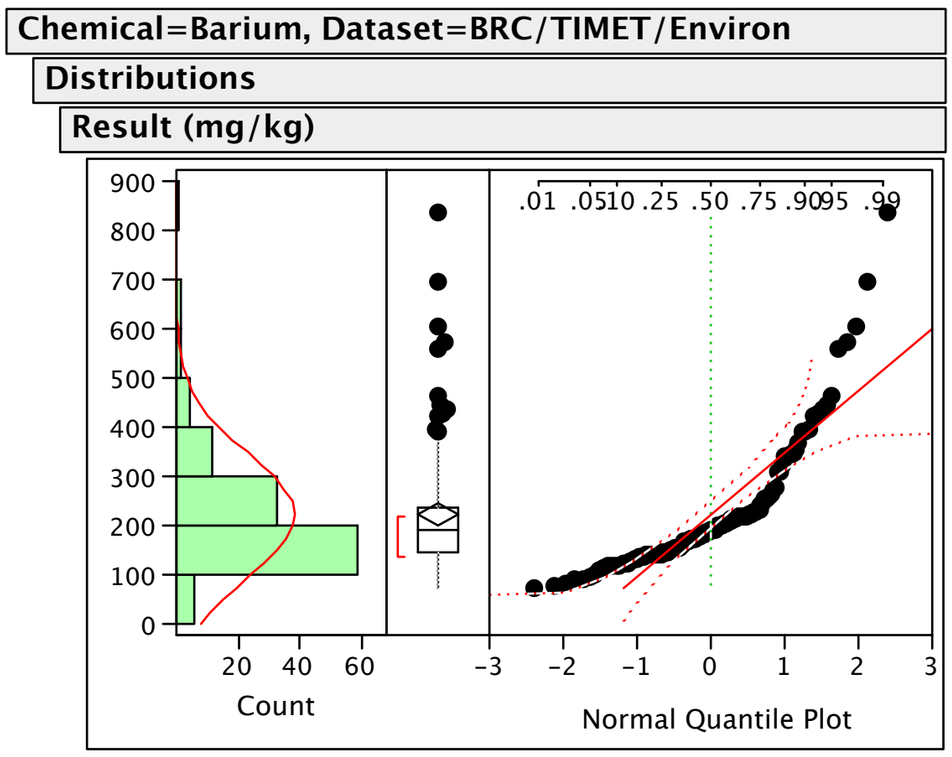
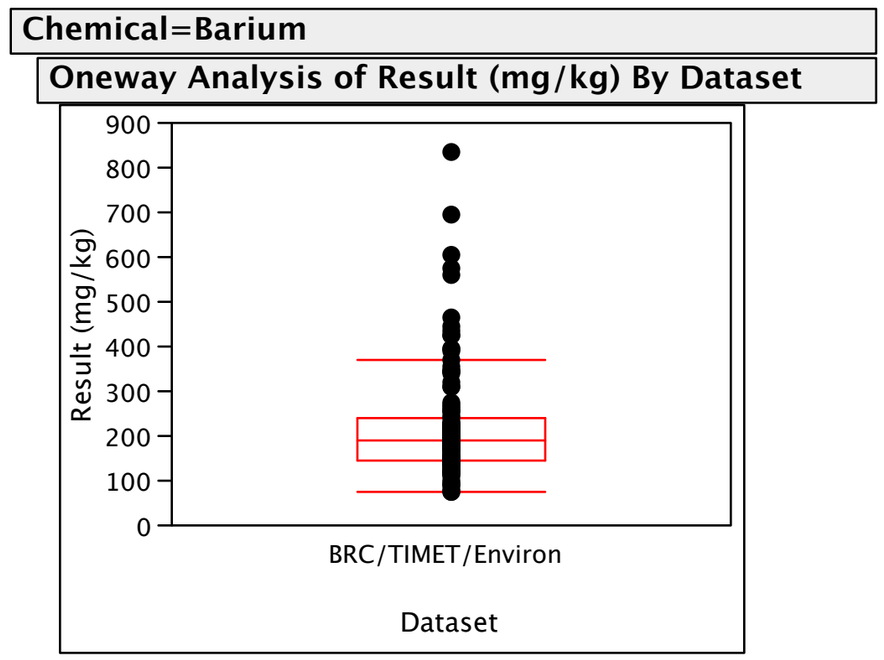
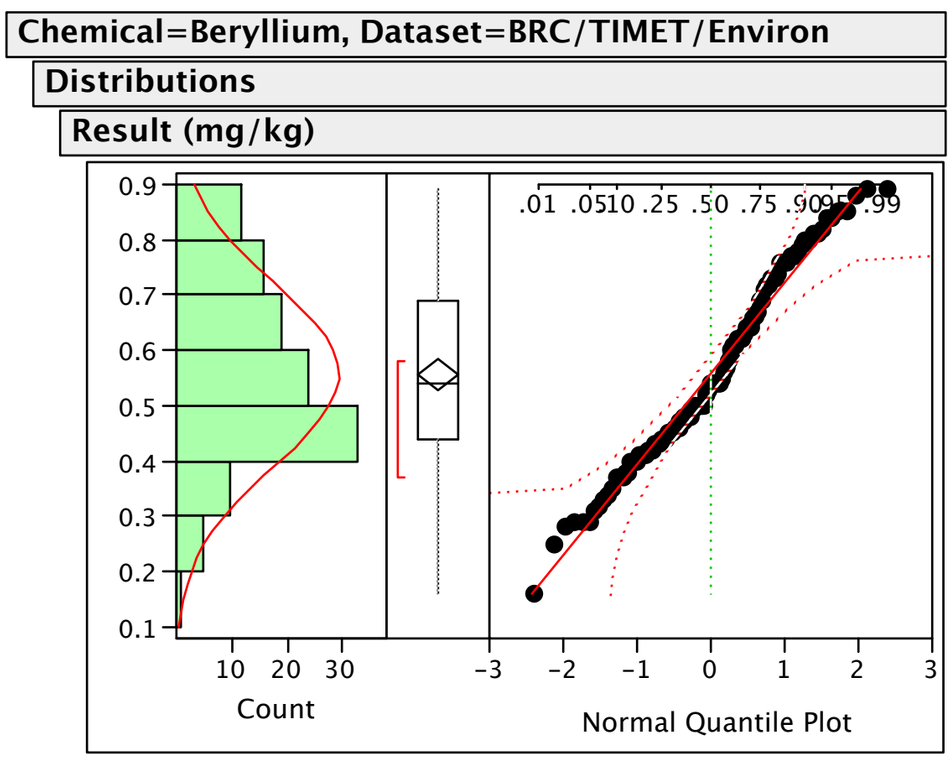


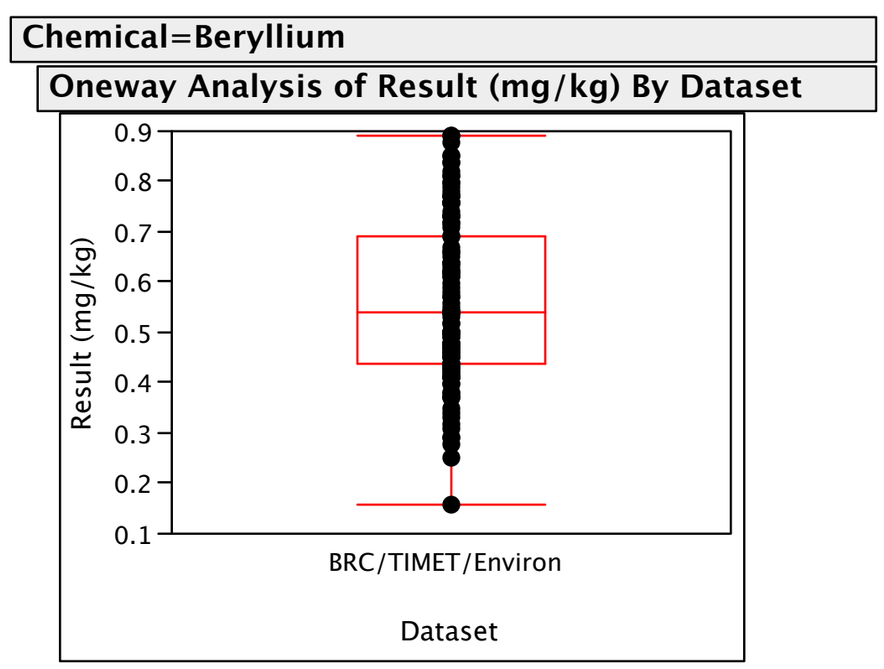
FIGURE G-1 (Continued)

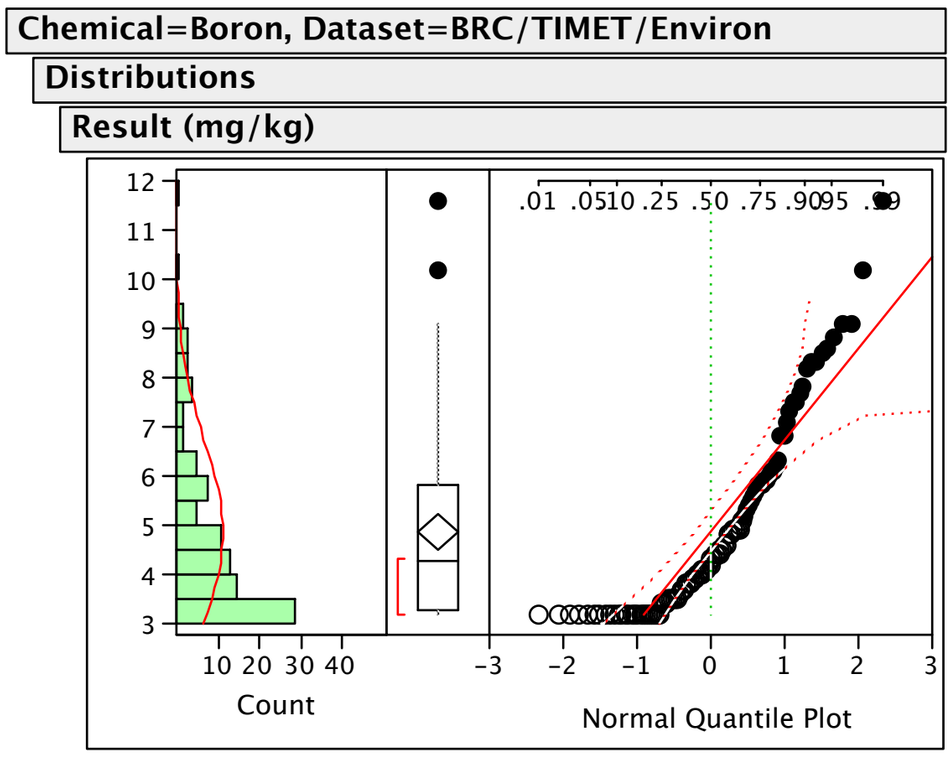
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











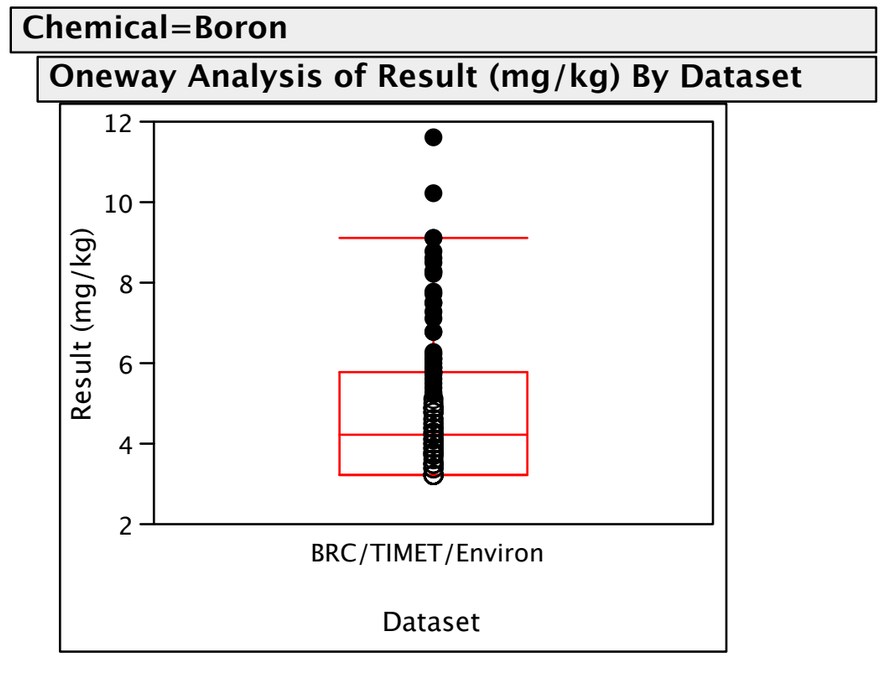
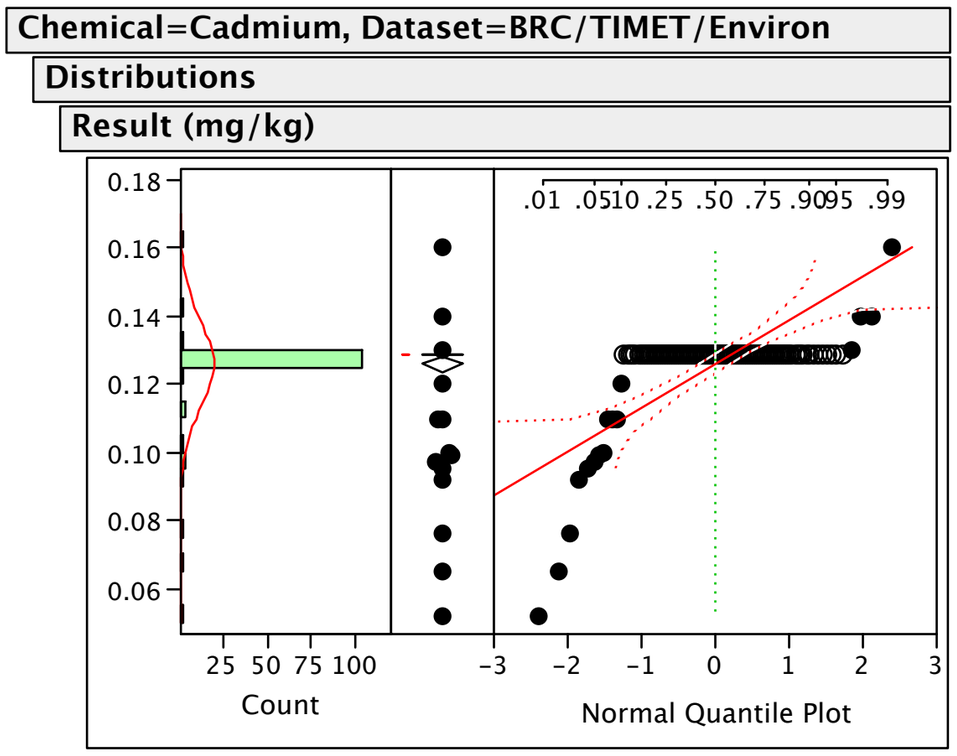
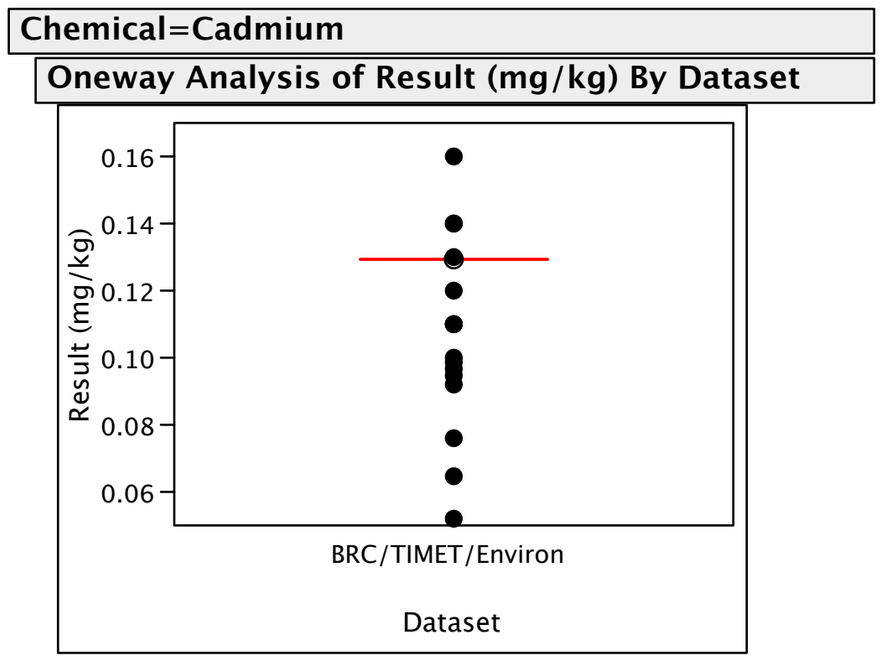
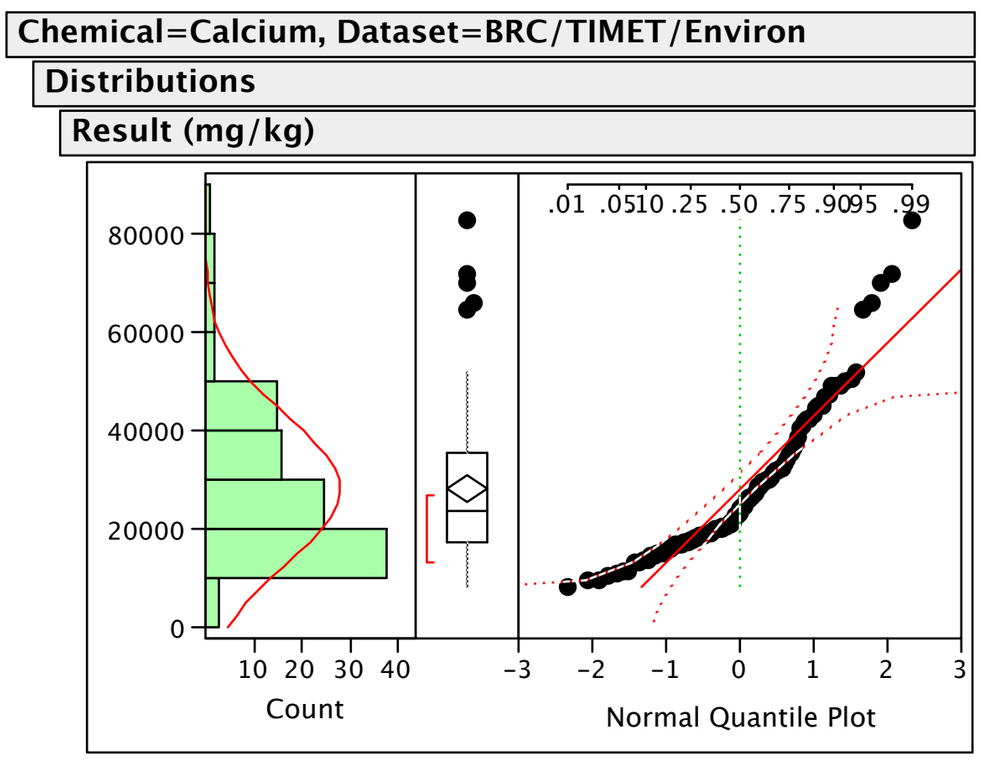


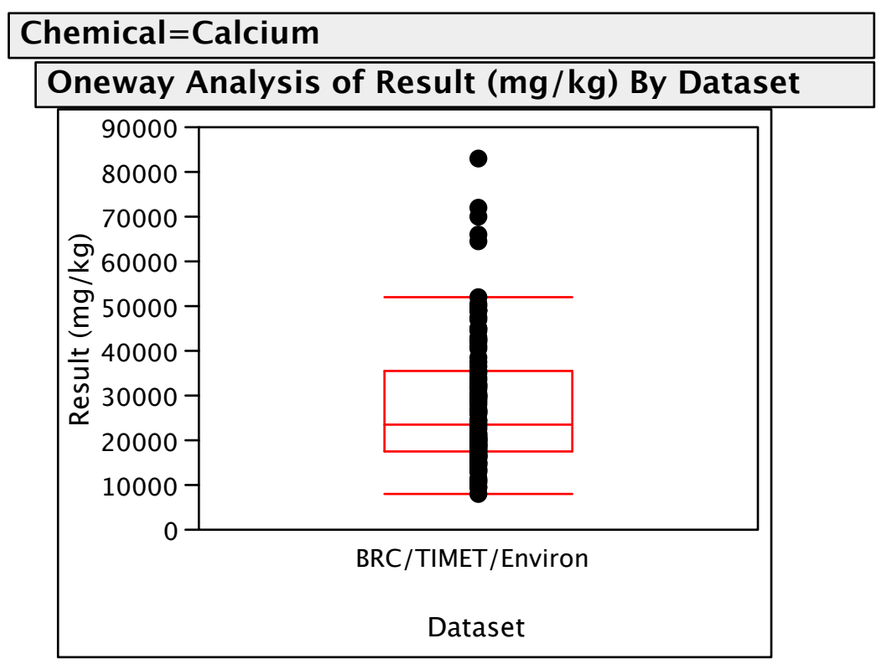
FIGURE G-1 (Continued)

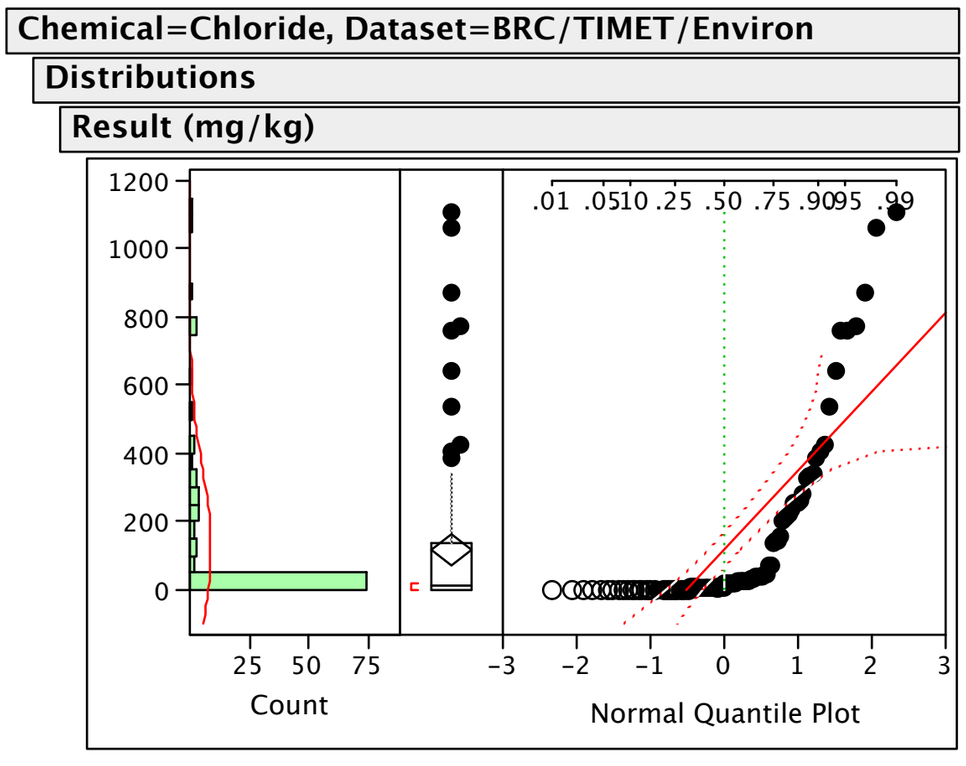
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











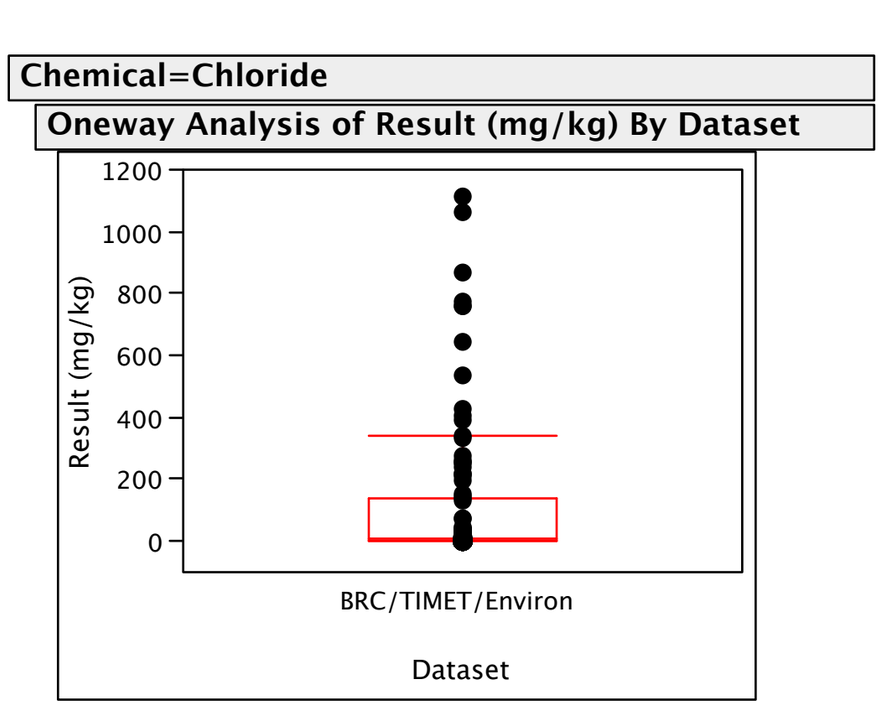
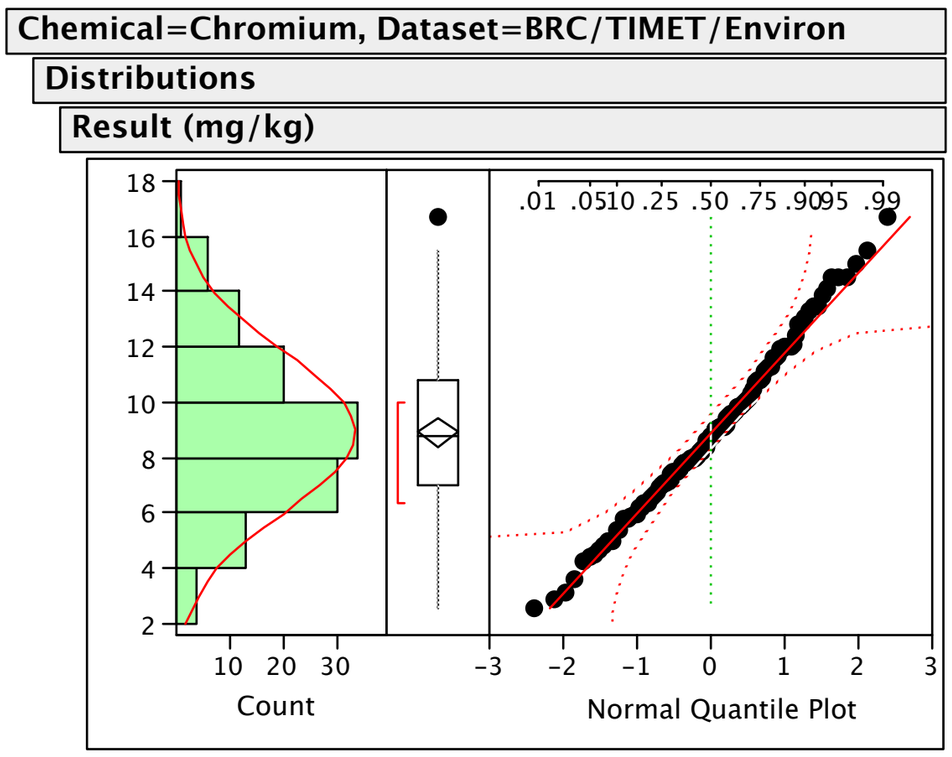
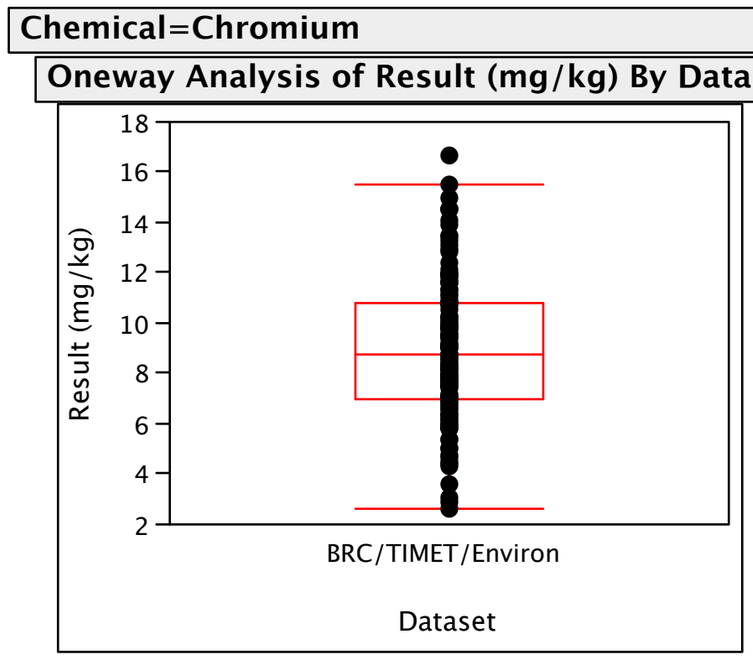
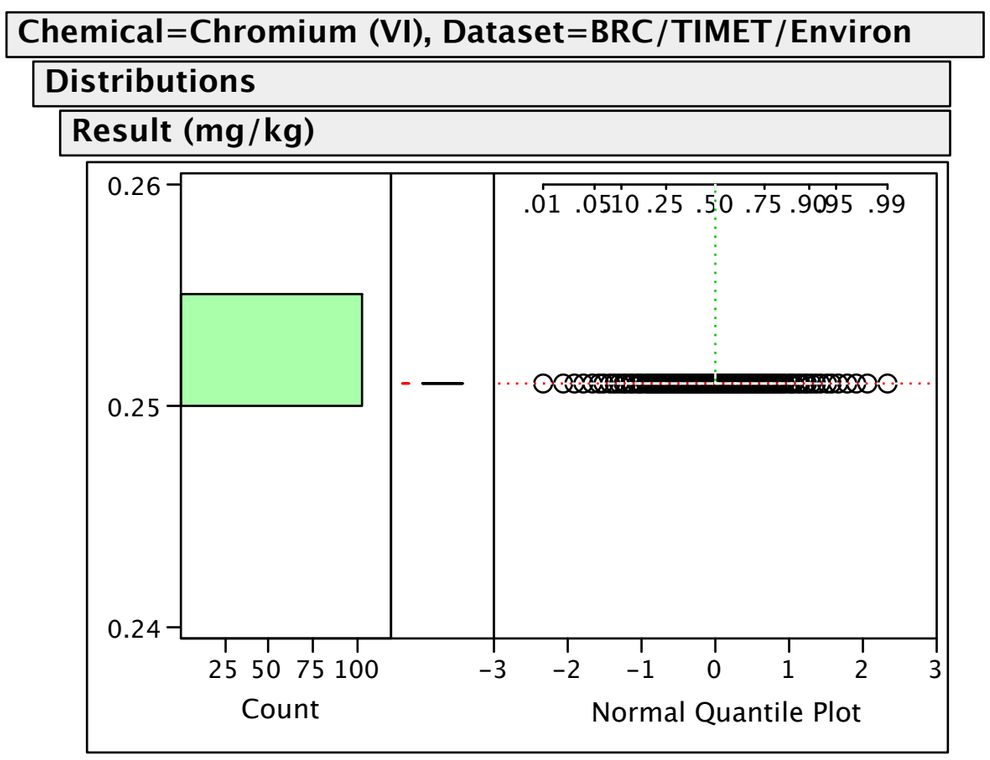


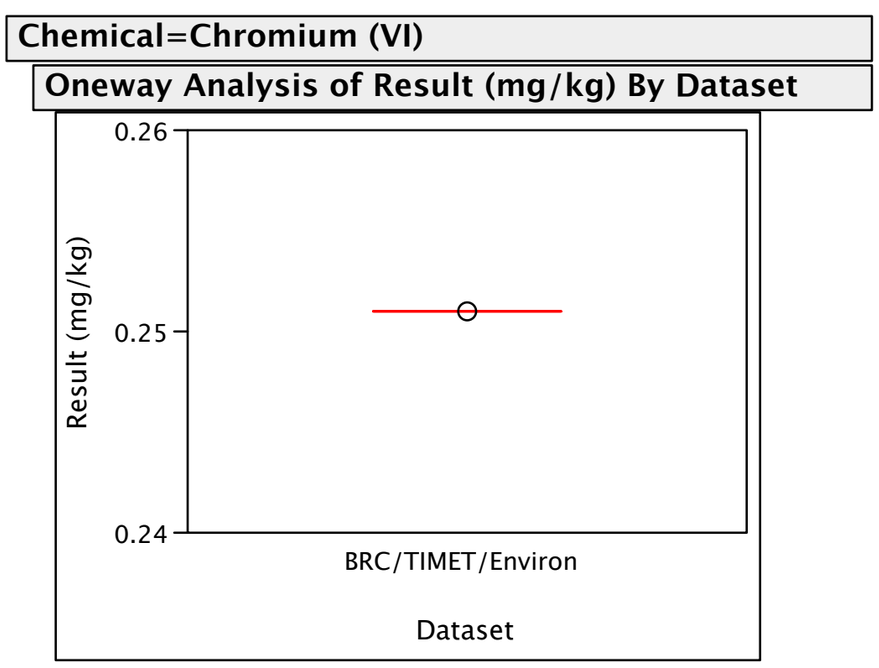
FIGURE G-1 (Continued)

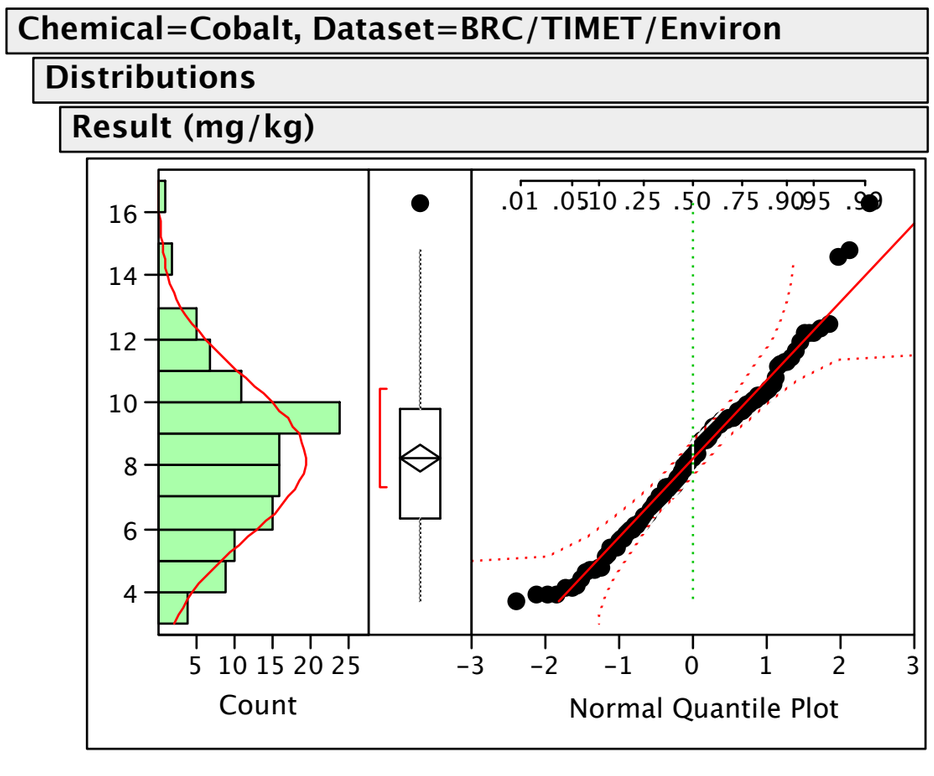
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











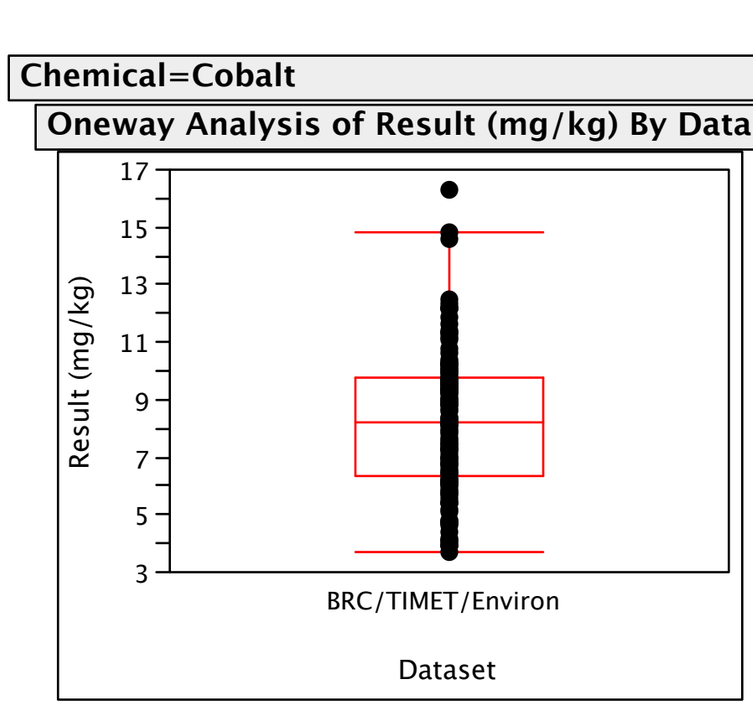
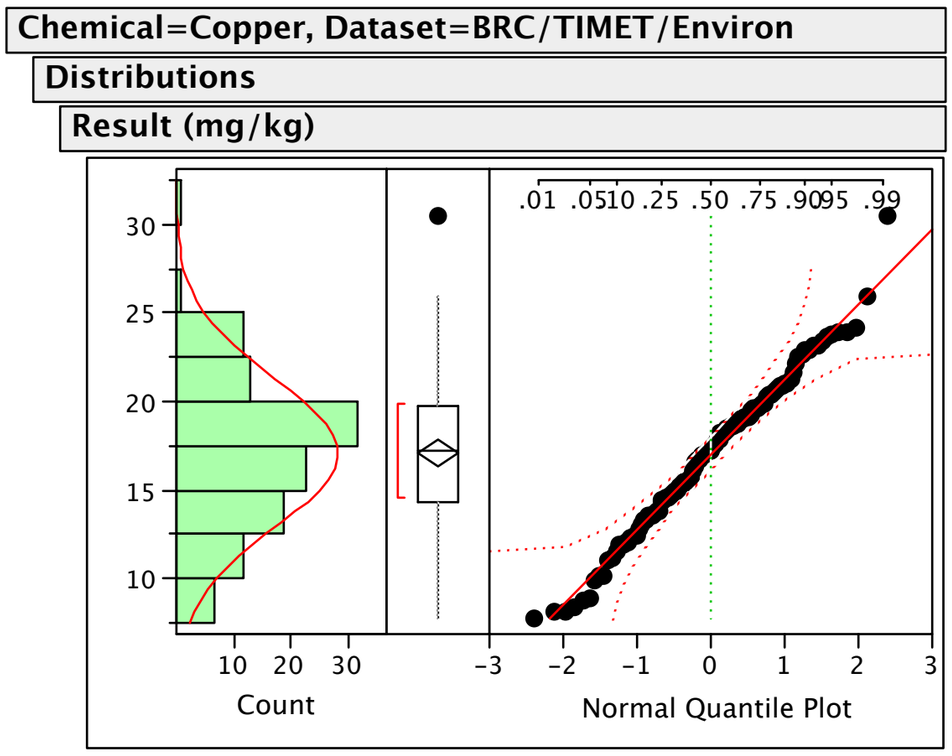
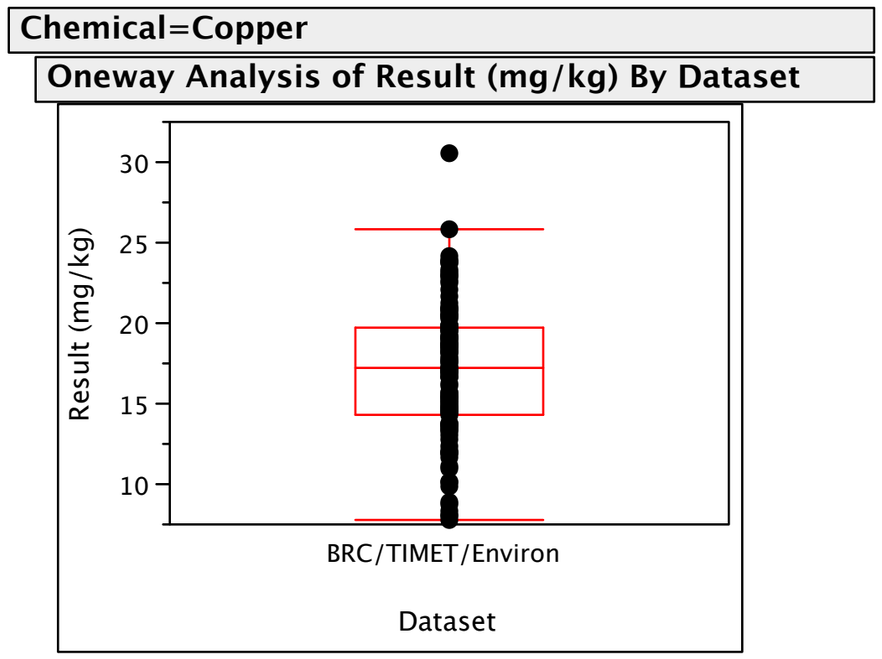
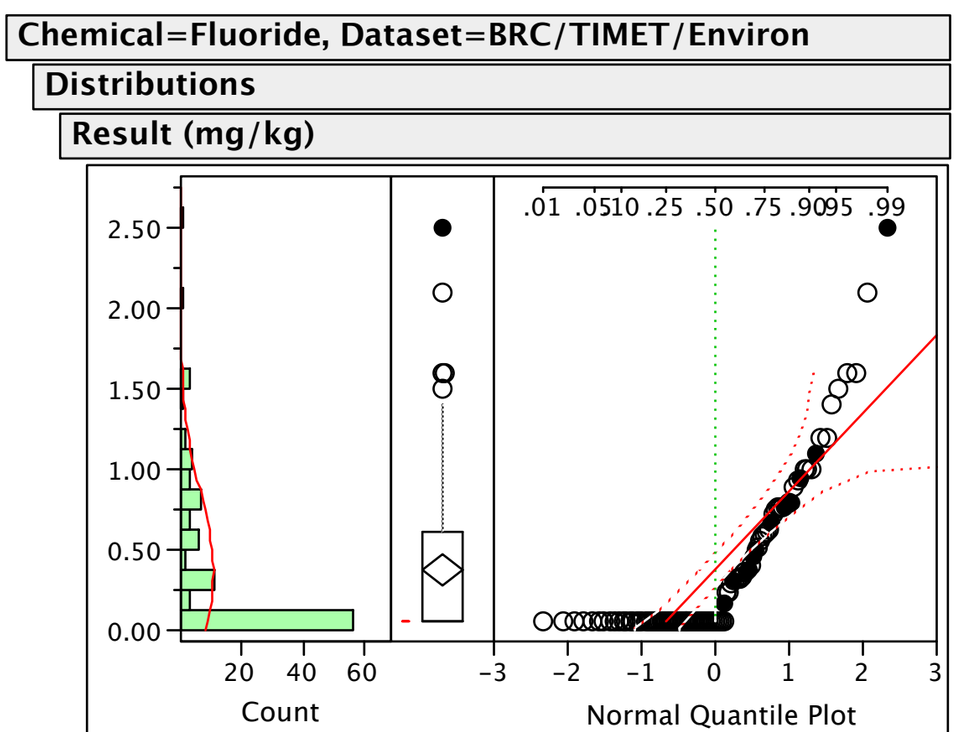


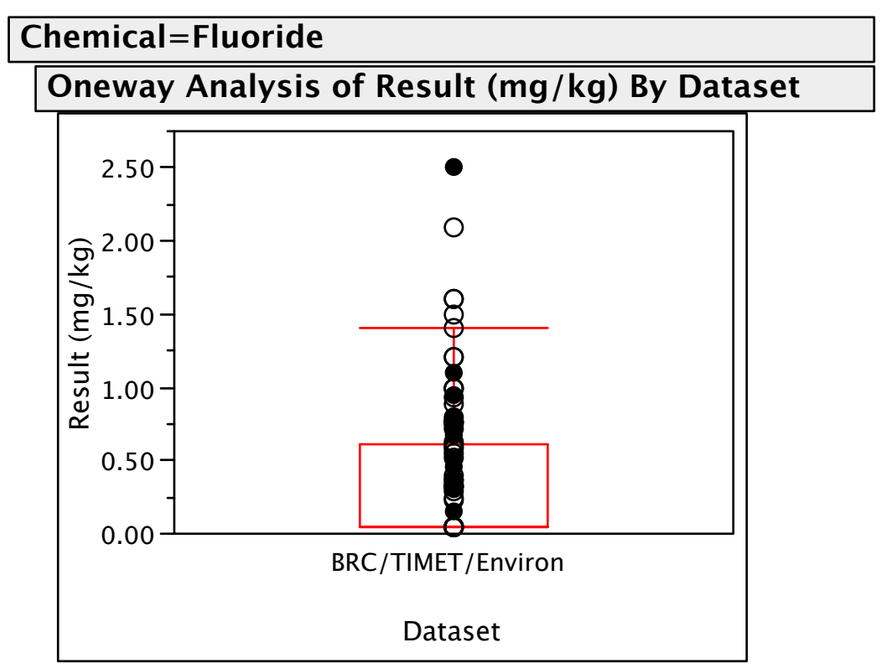
FIGURE G-1 (Continued)

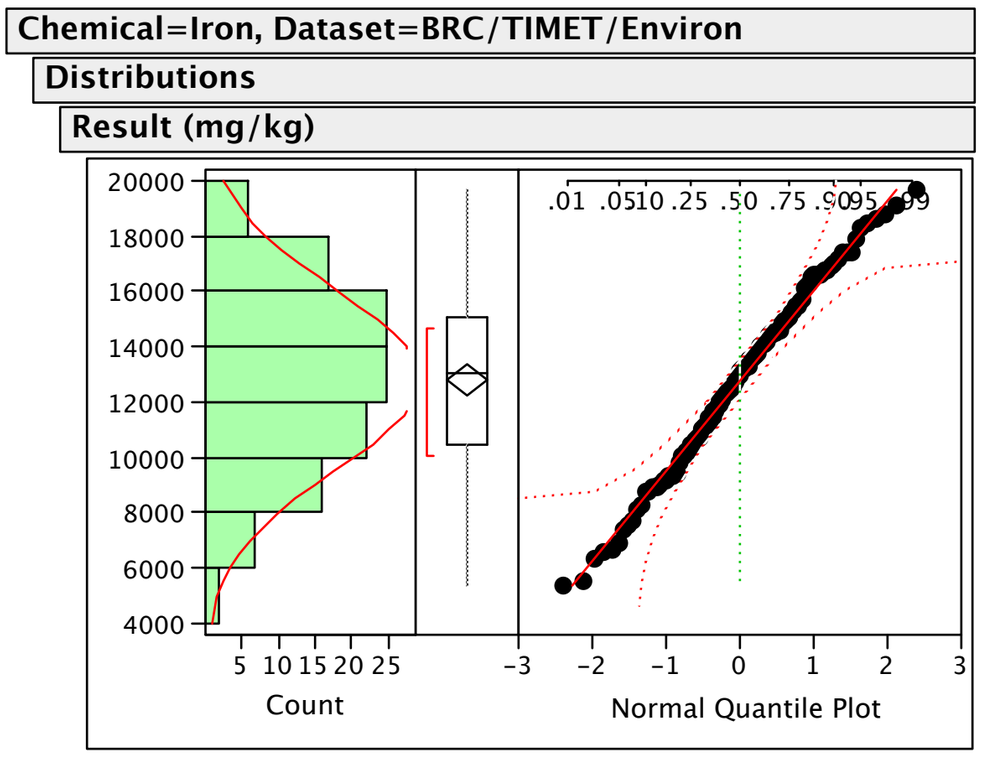
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











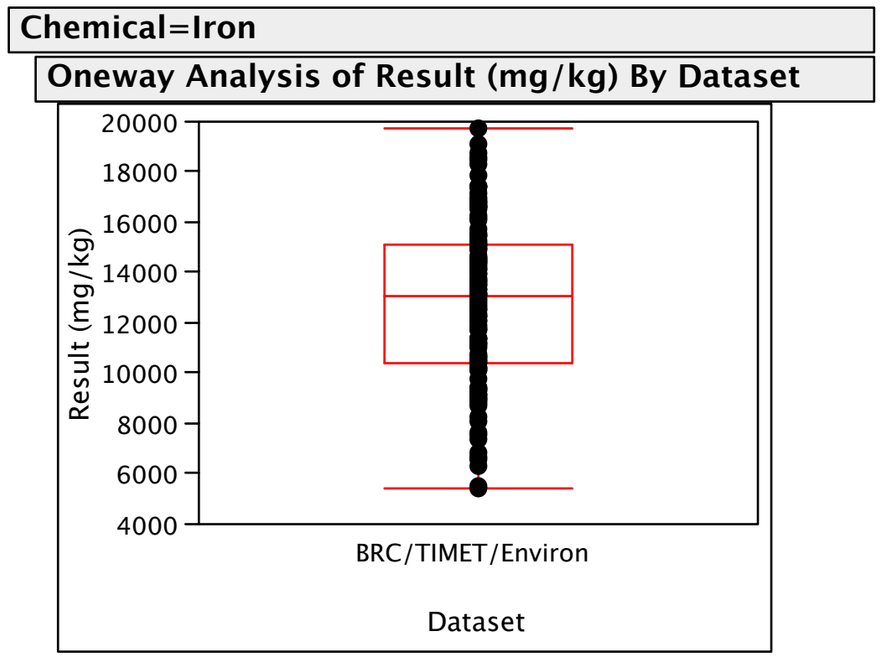
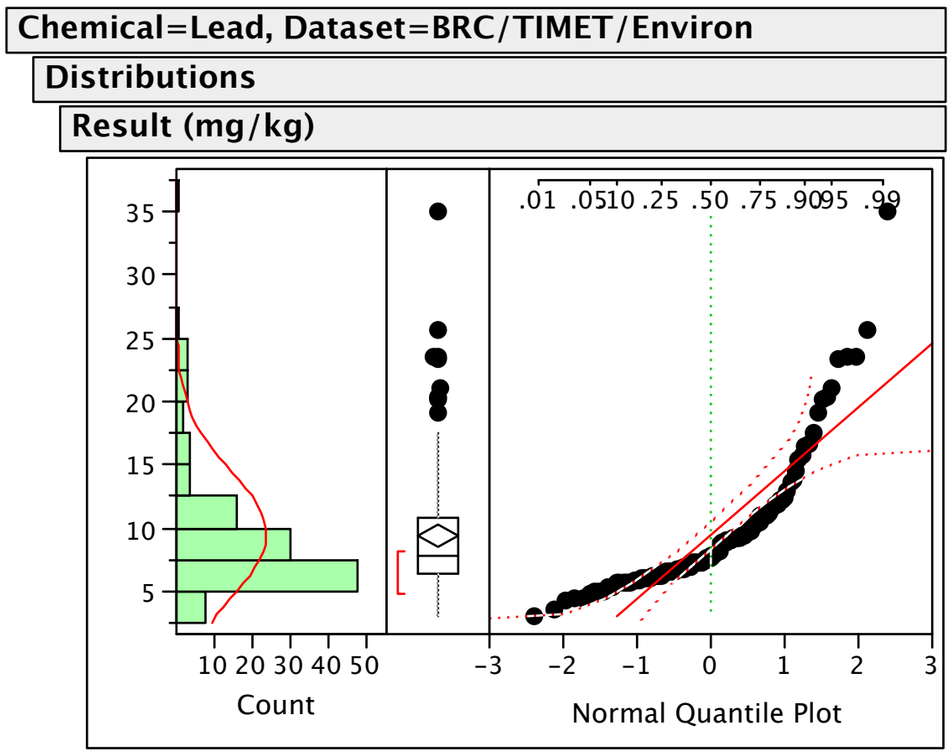
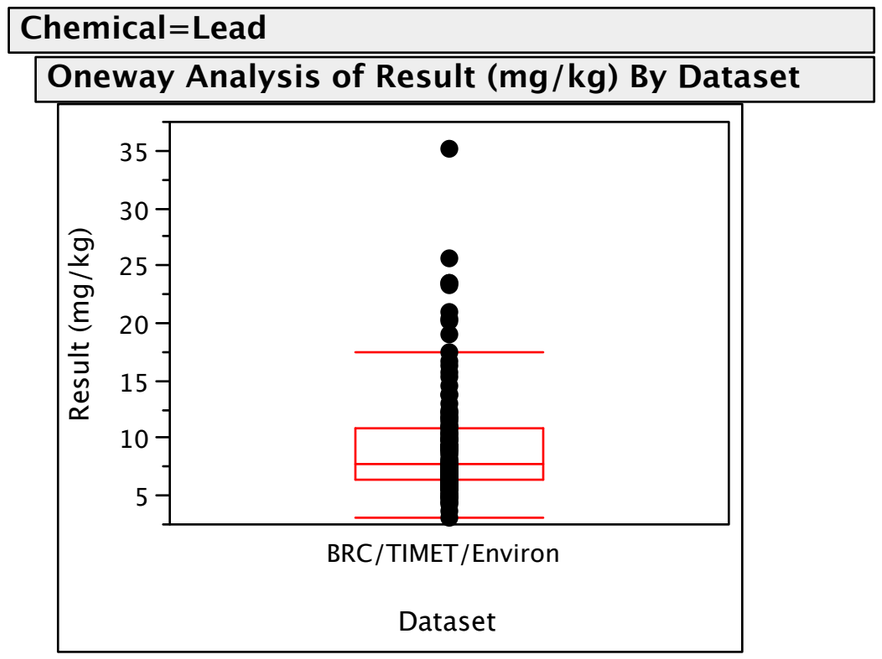
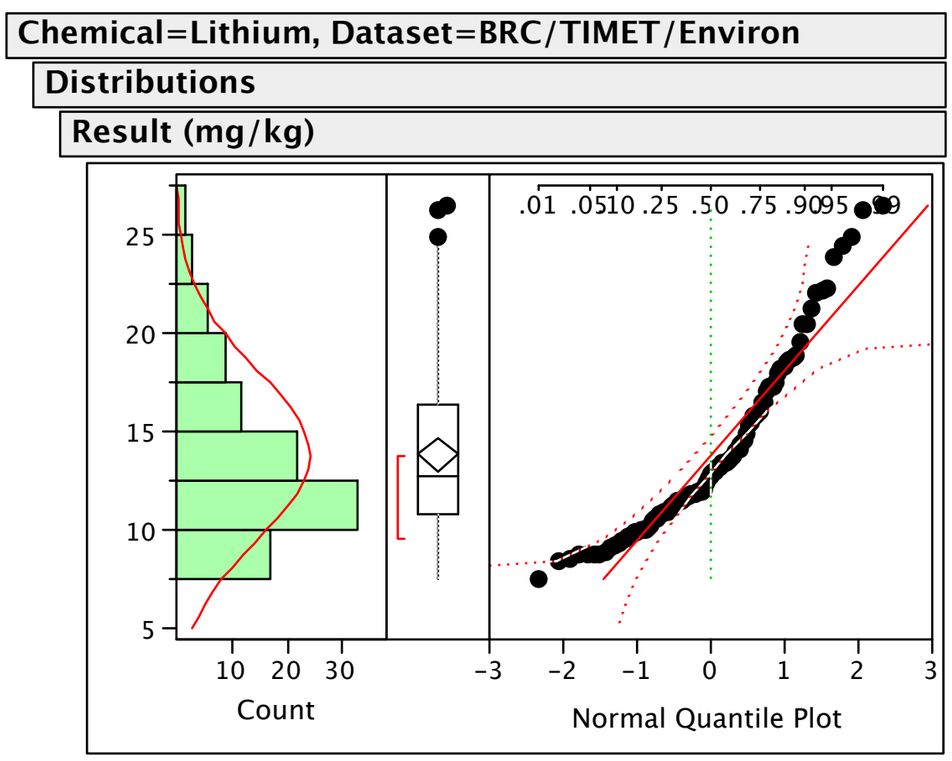


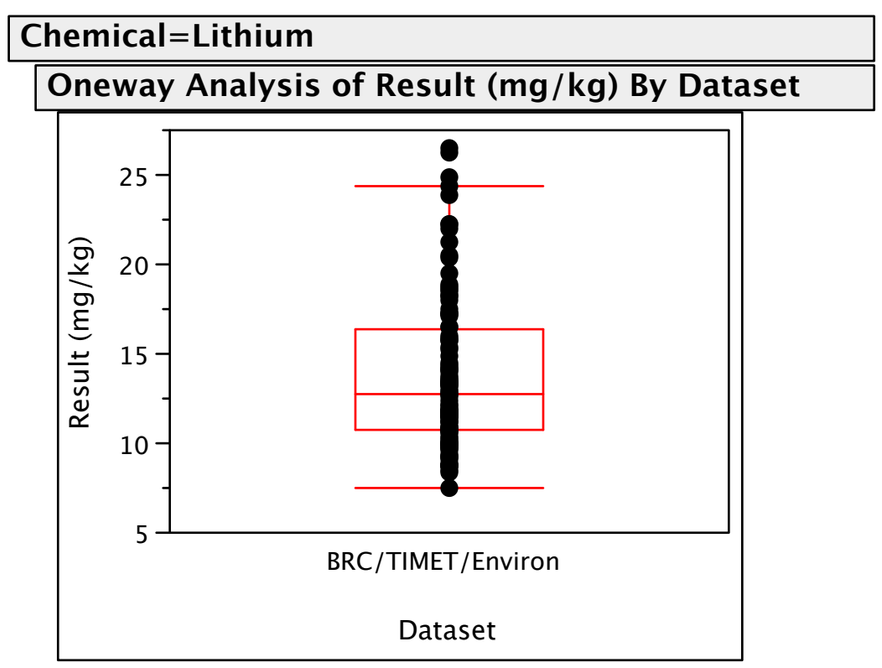
FIGURE G-1 (Continued)

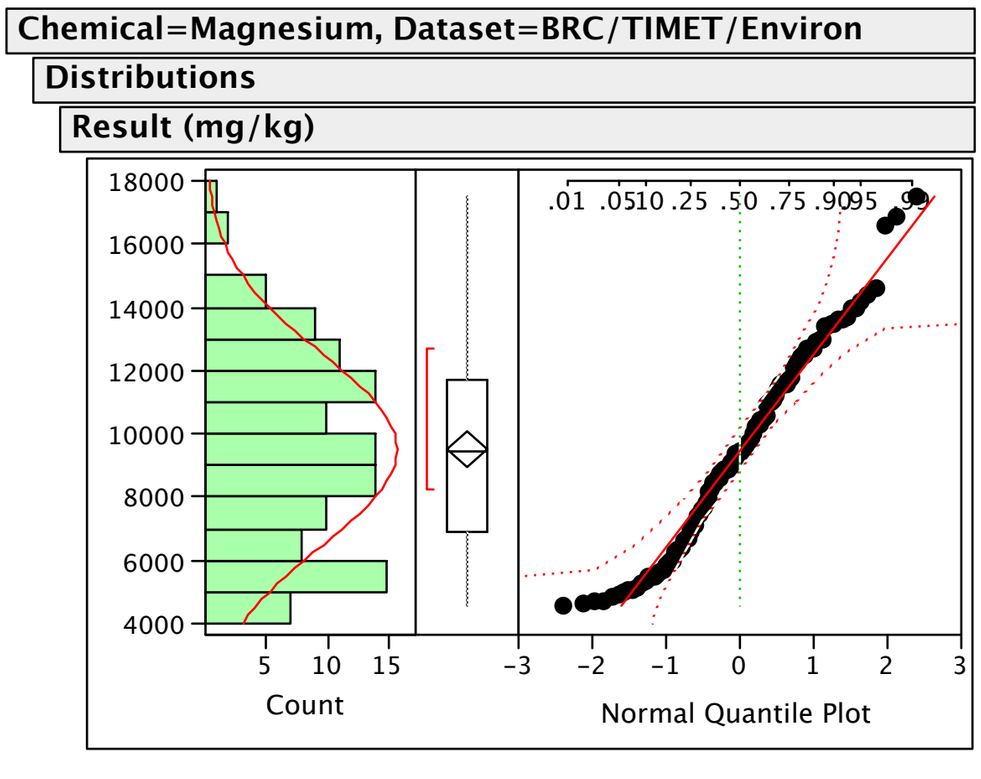
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











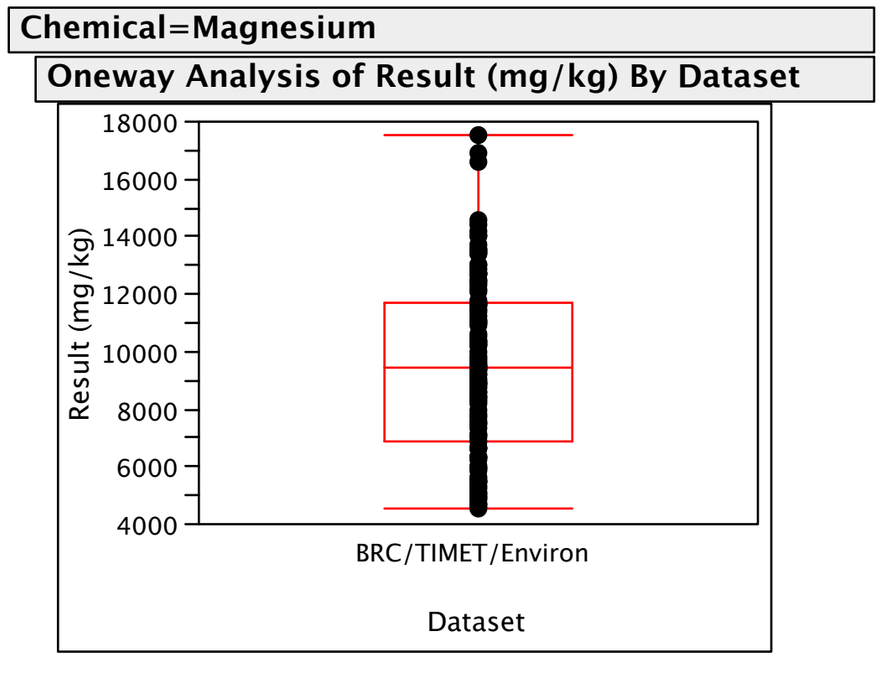
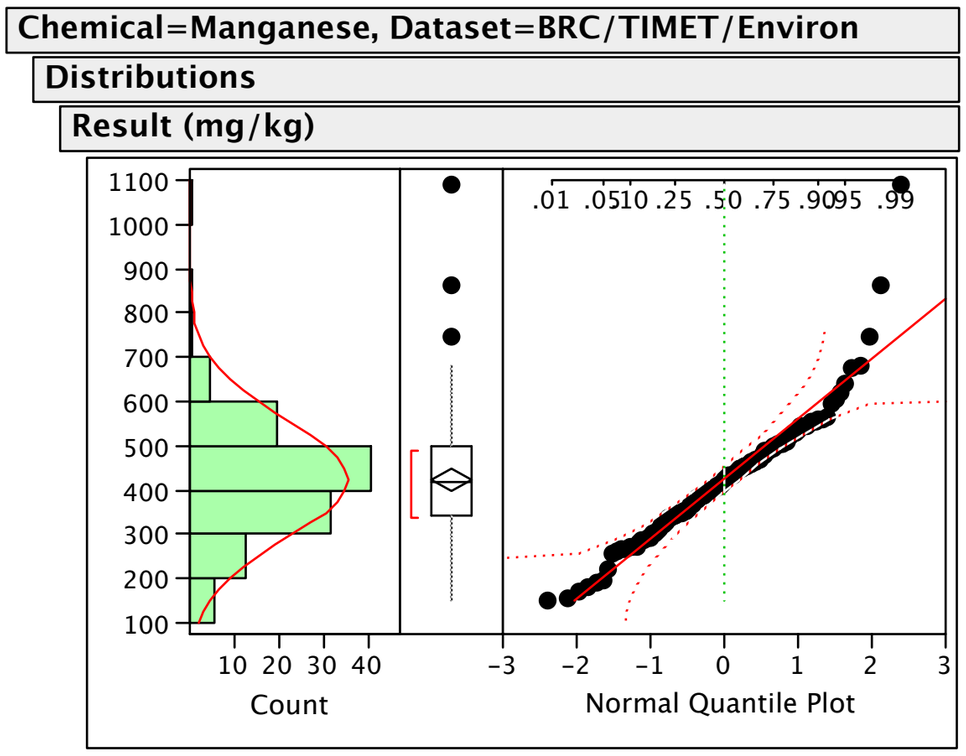
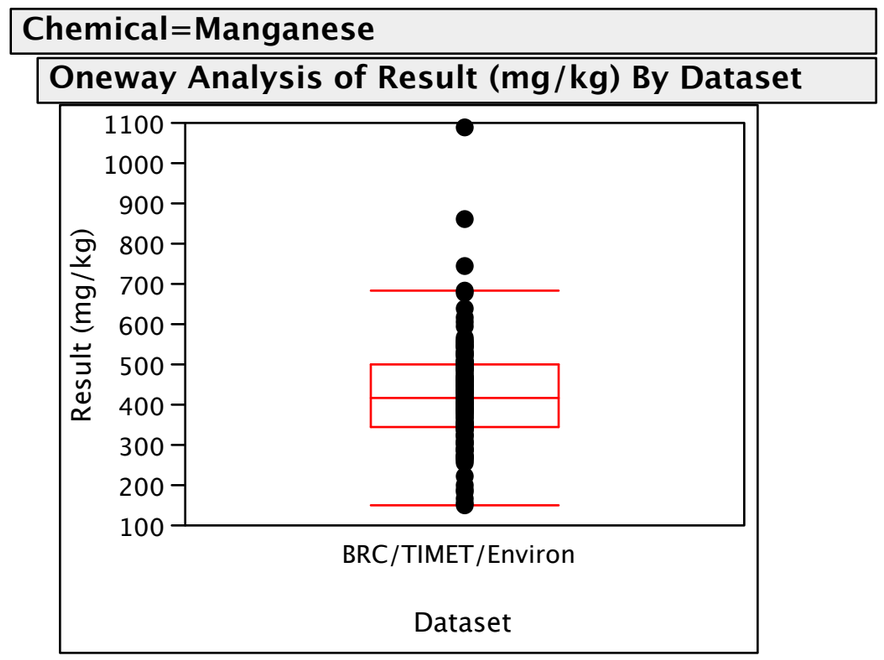
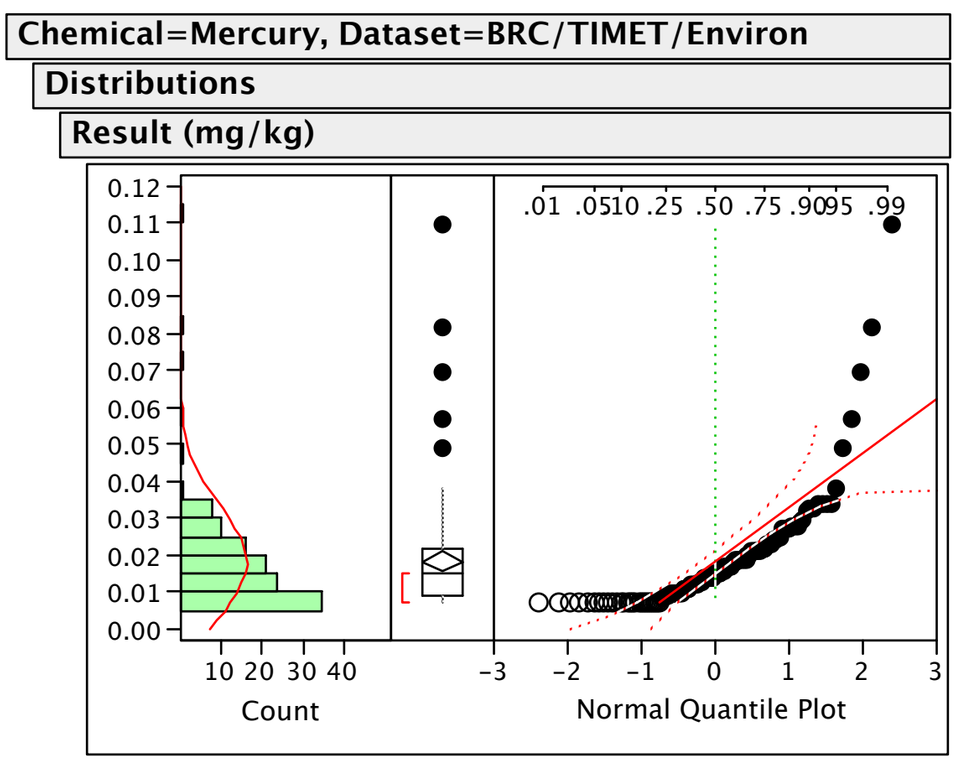


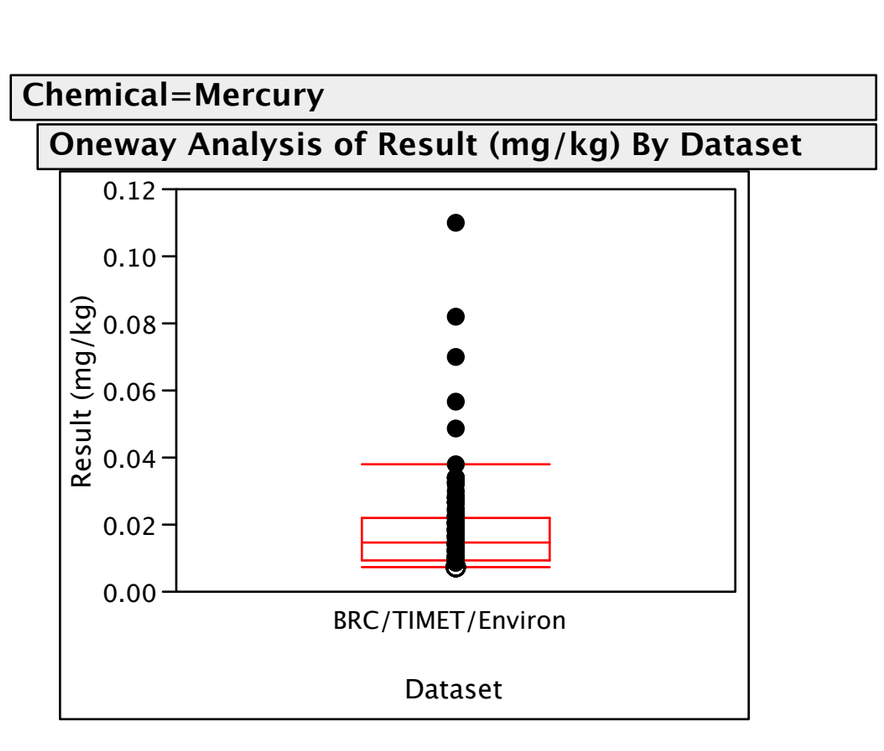
FIGURE G-1 (Continued)

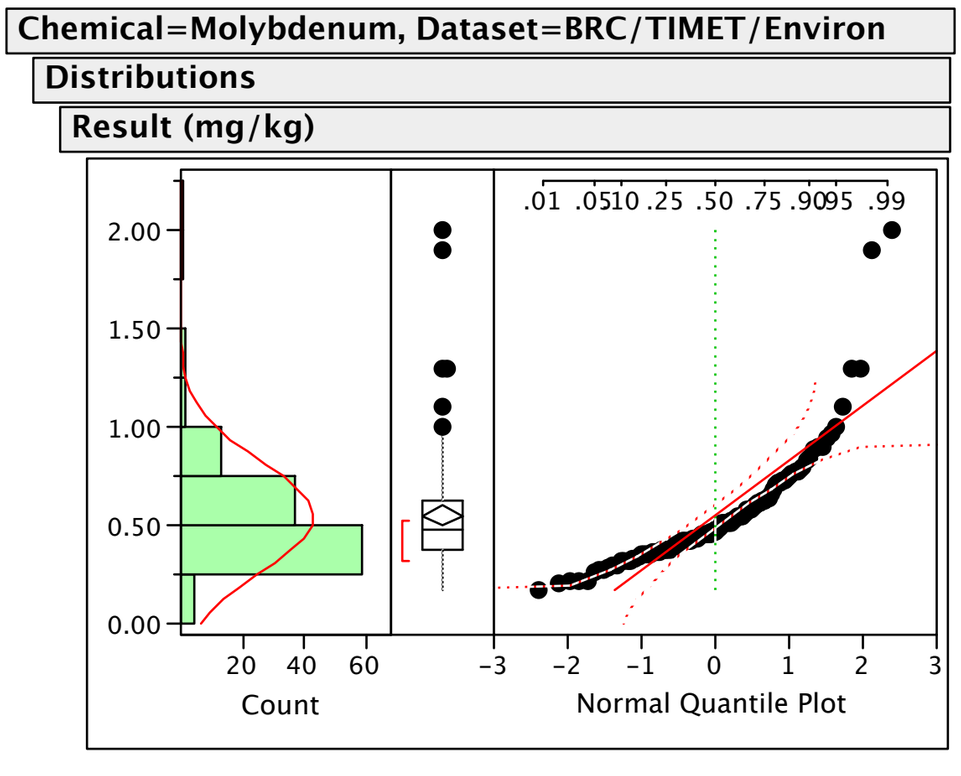
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











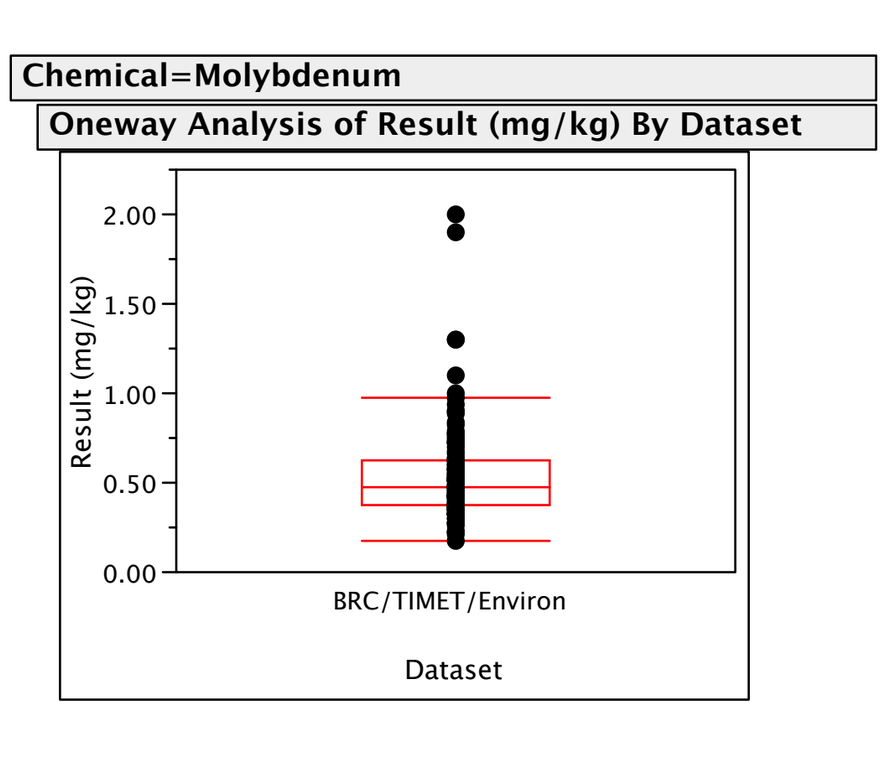
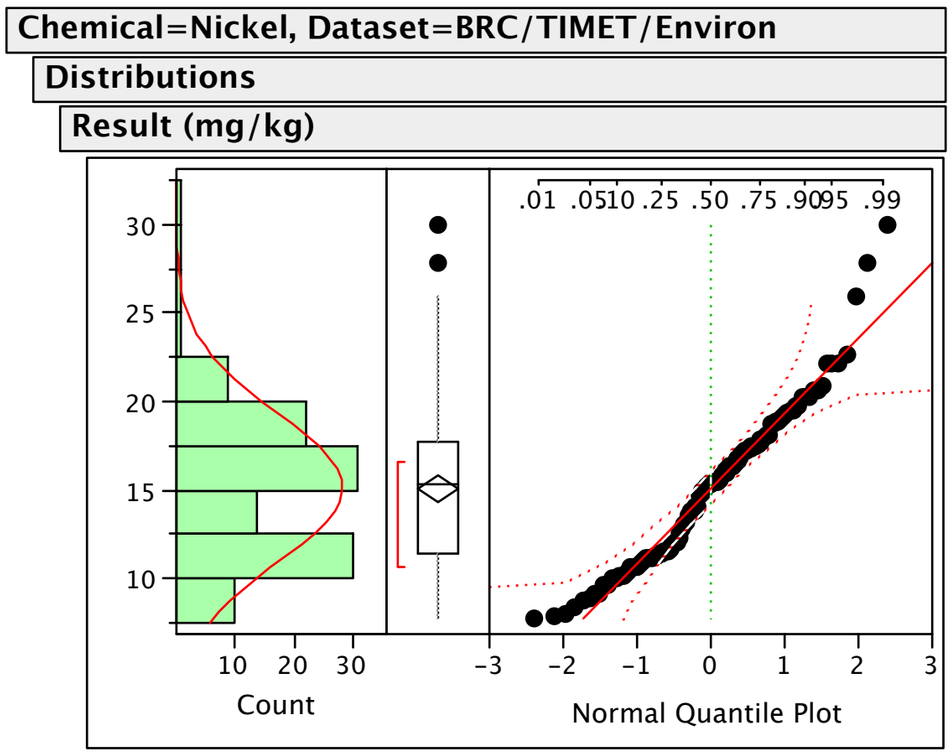
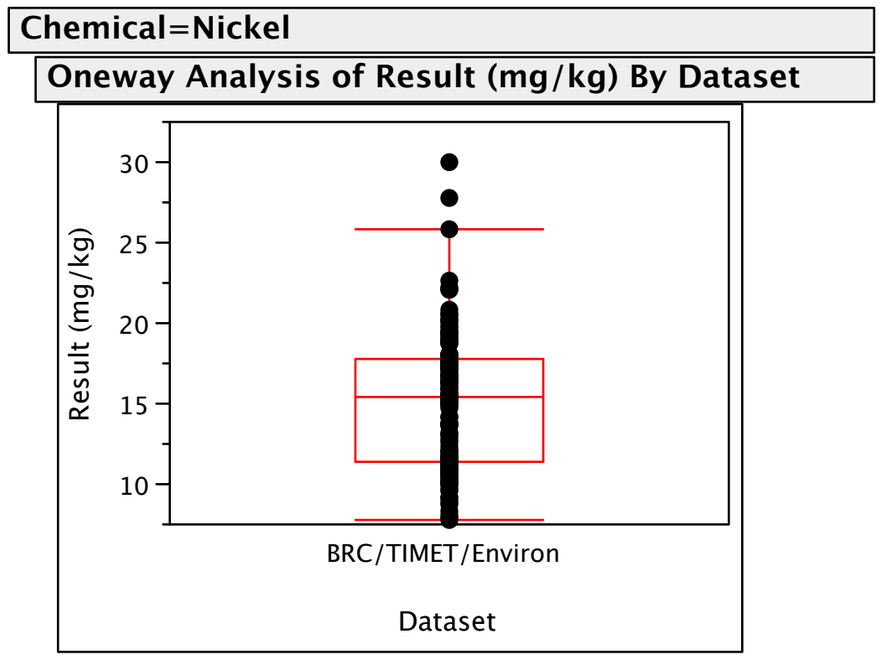
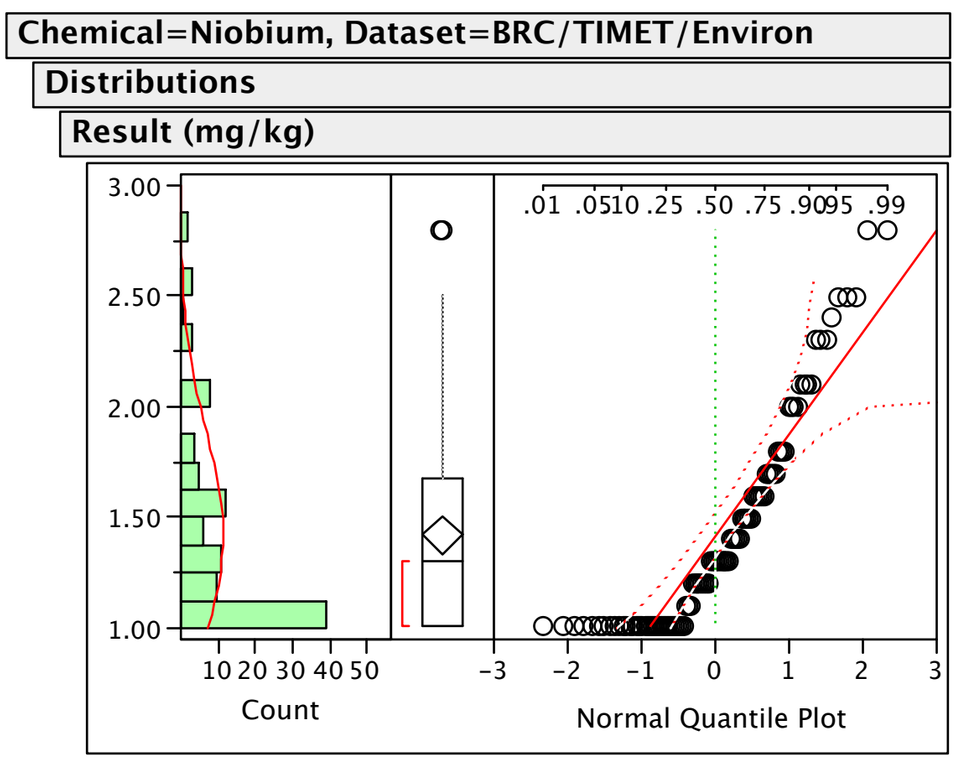


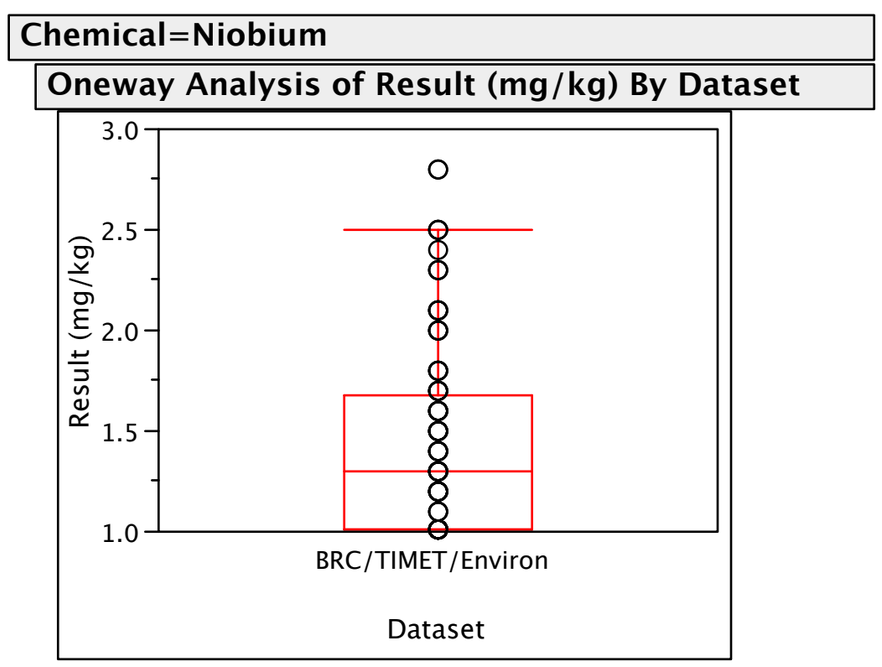
FIGURE G-1 (Continued)

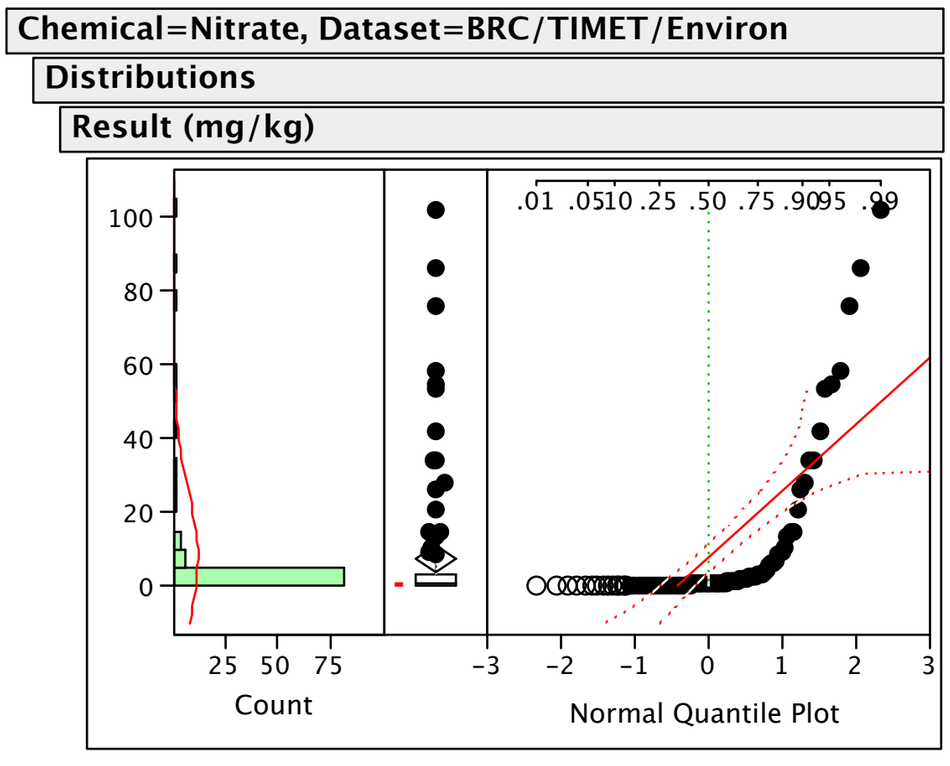
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











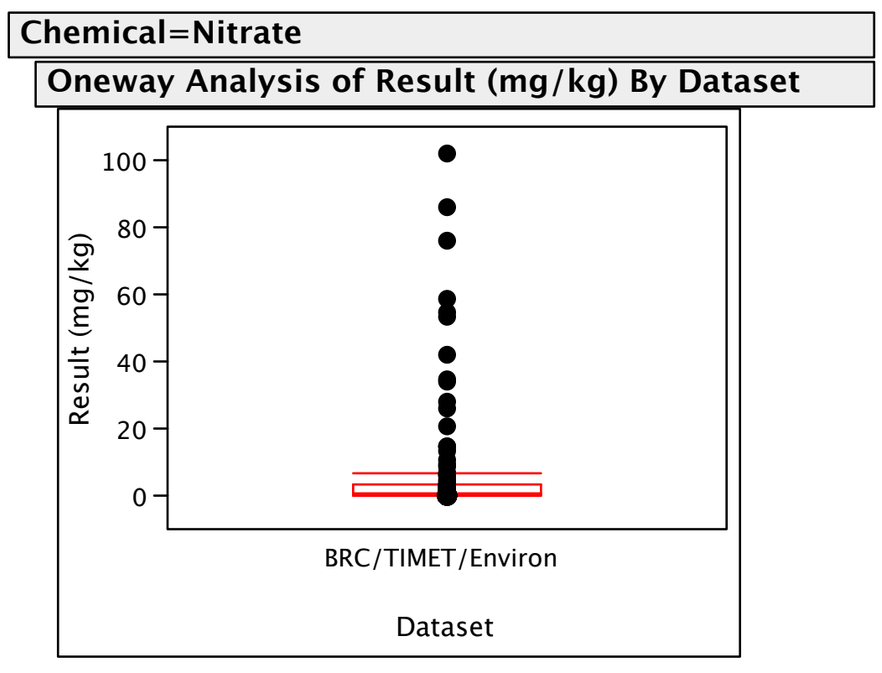
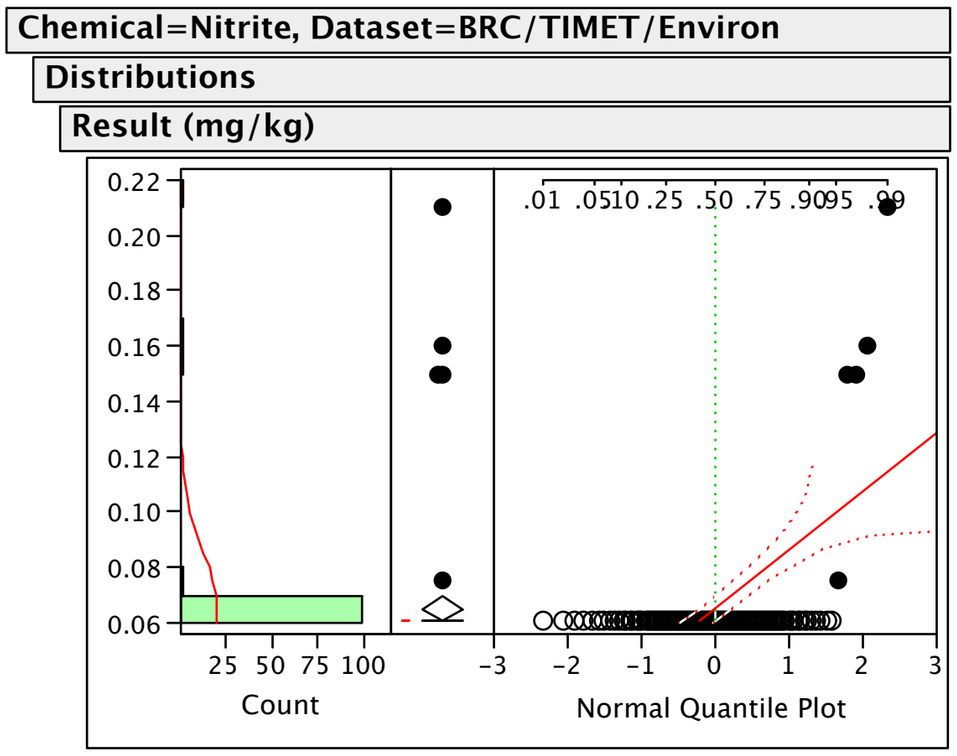
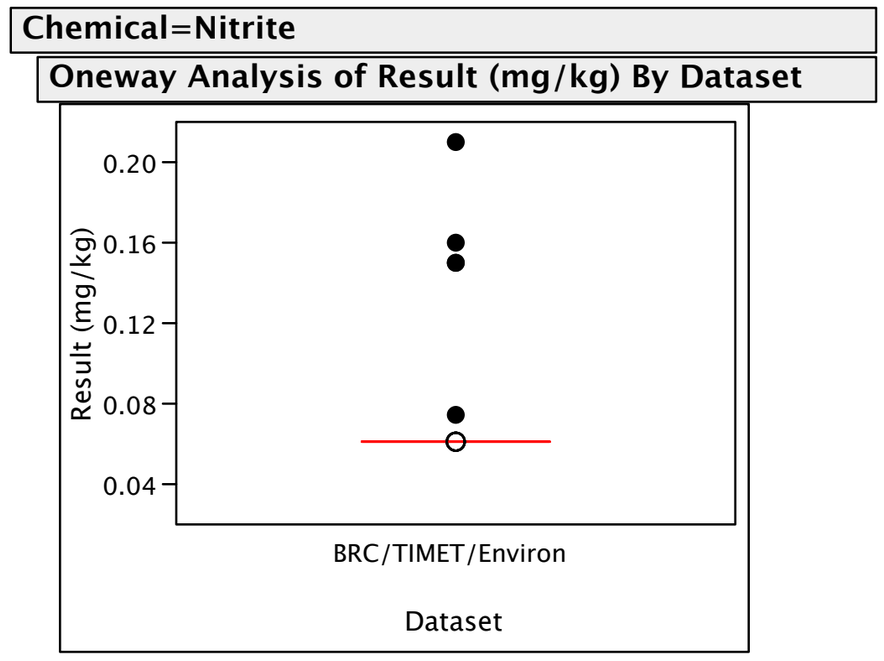
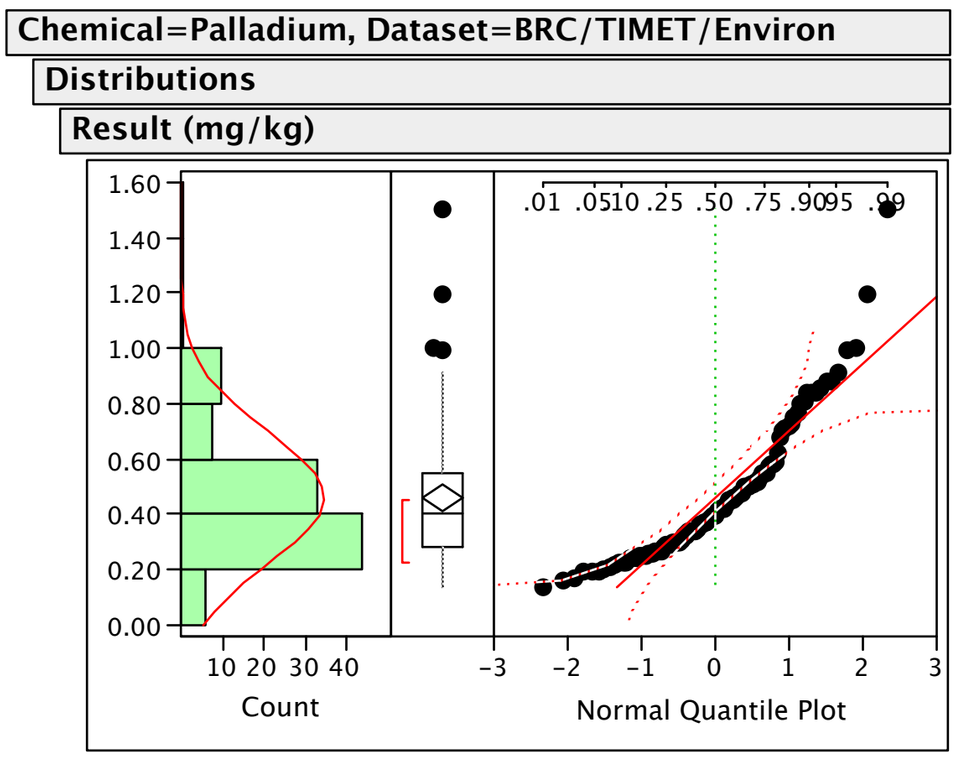


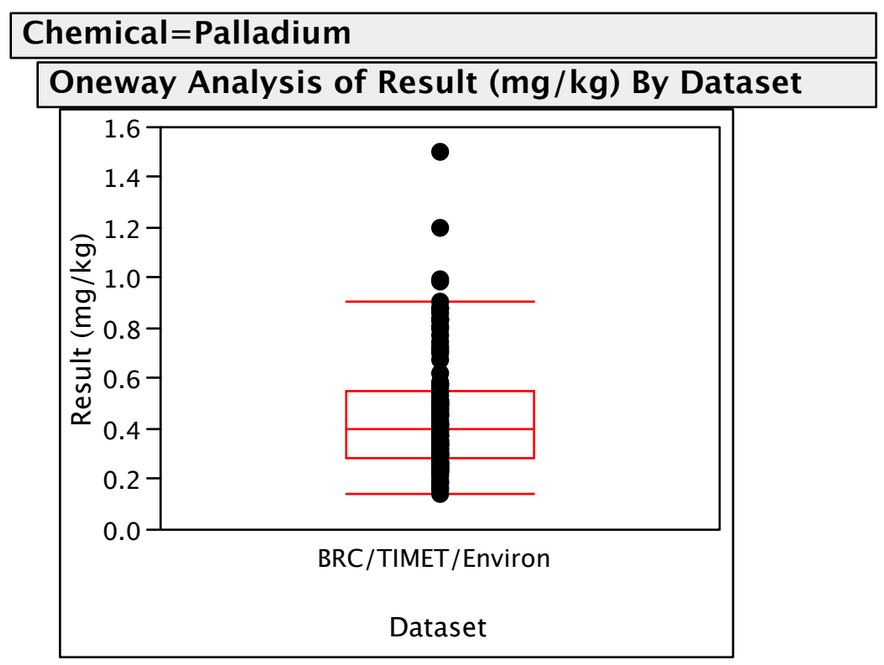
FIGURE G-1 (Continued)

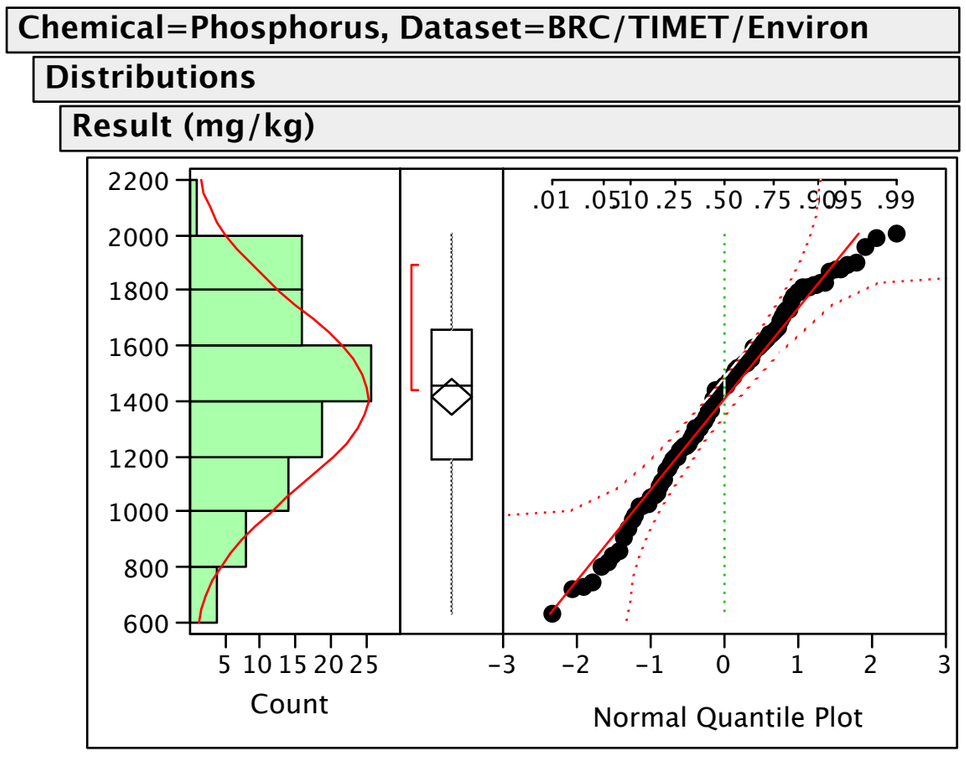
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











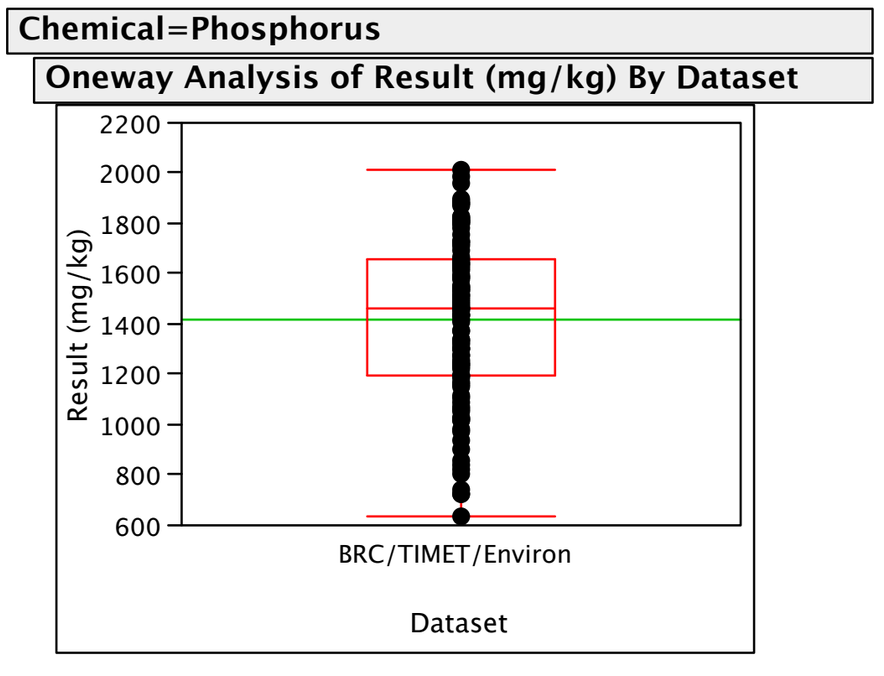
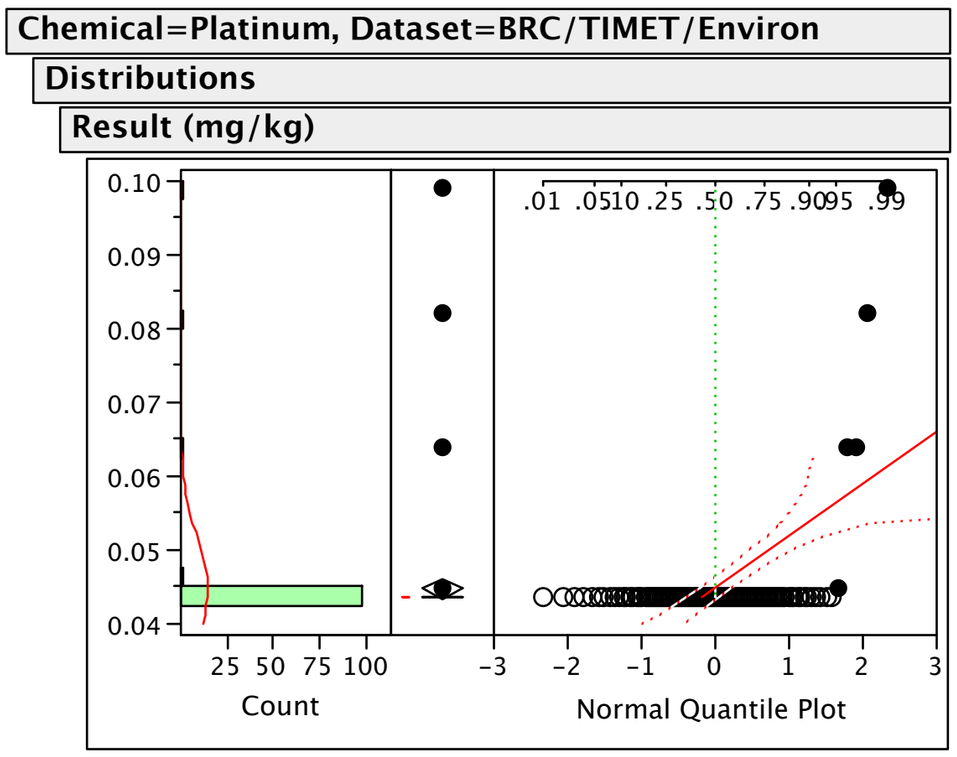
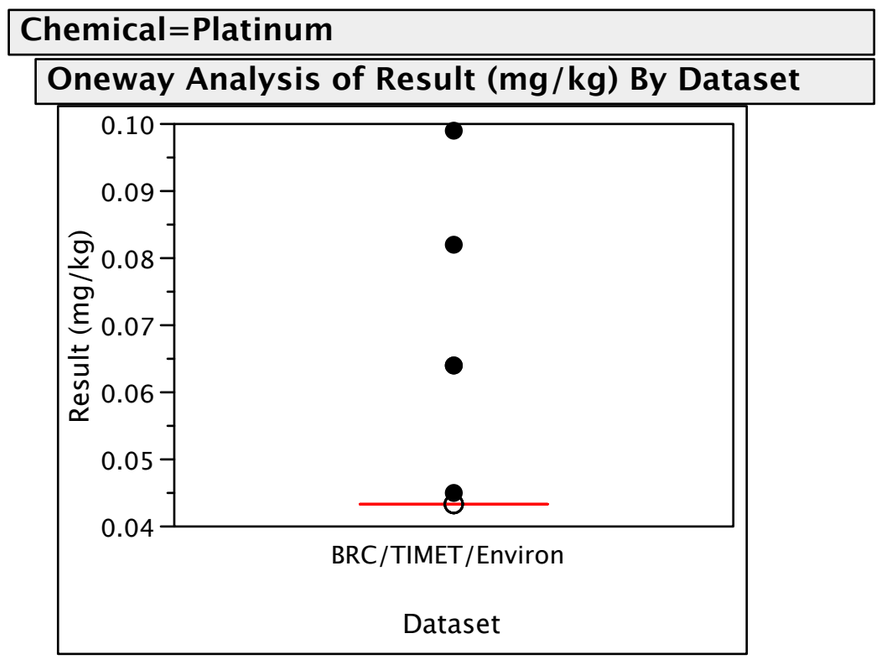
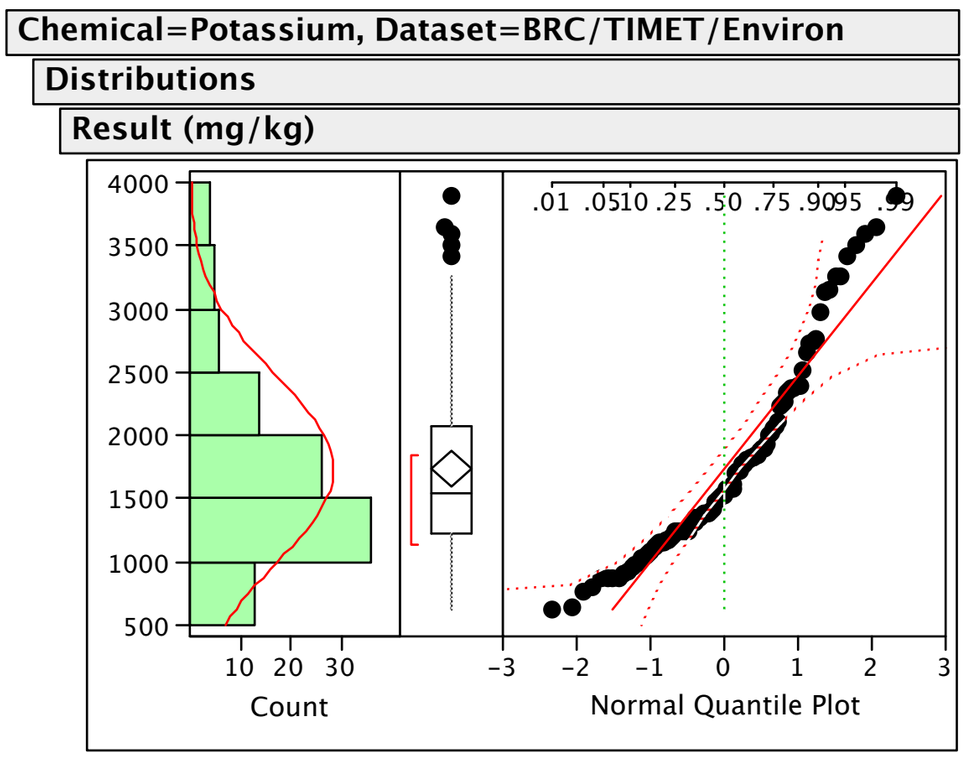


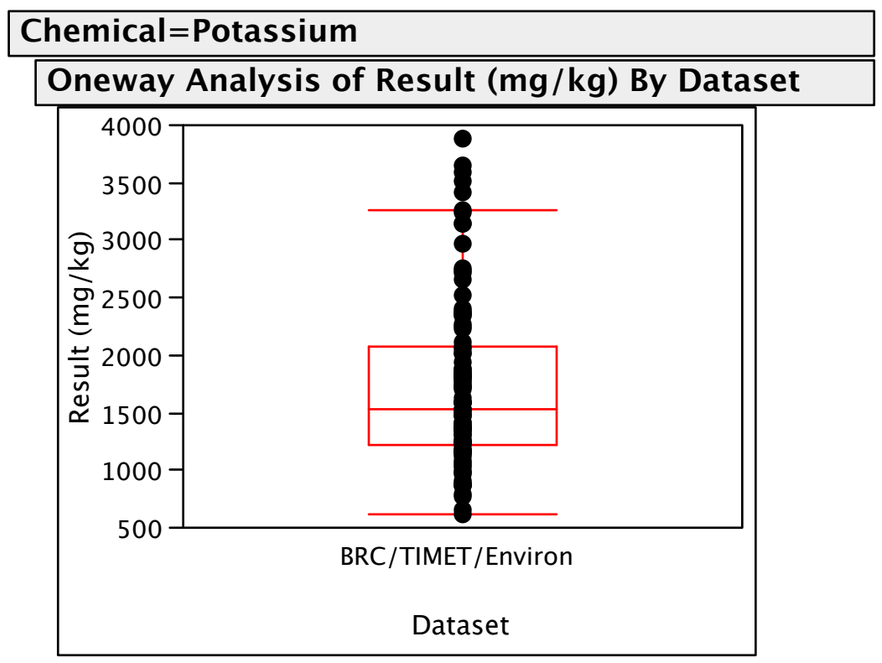
FIGURE G-1 (Continued)

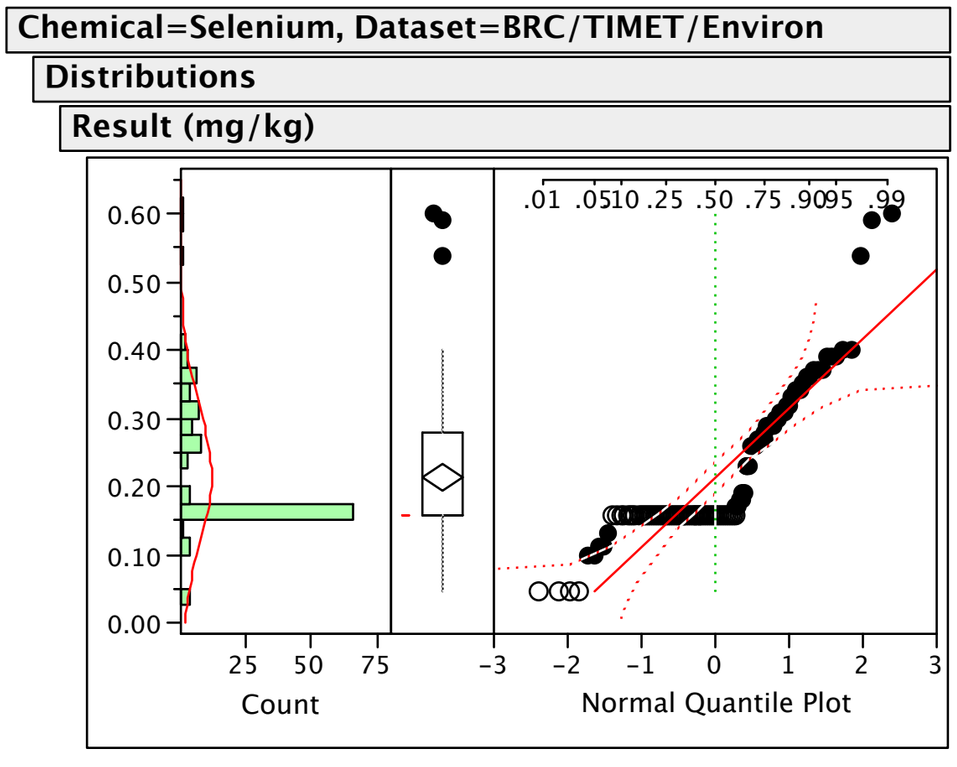
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











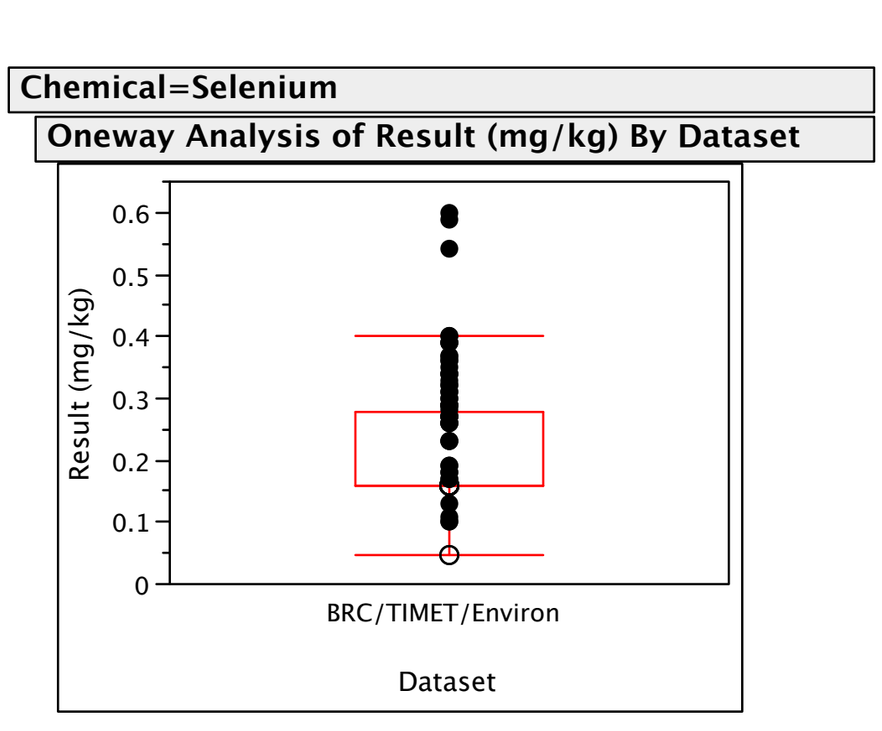
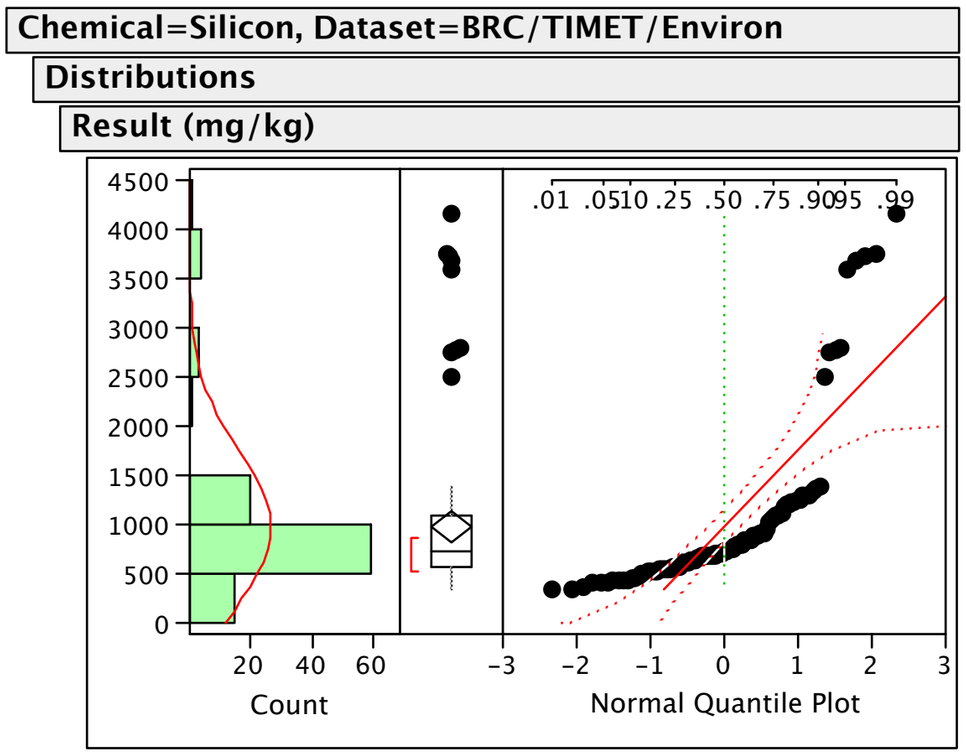
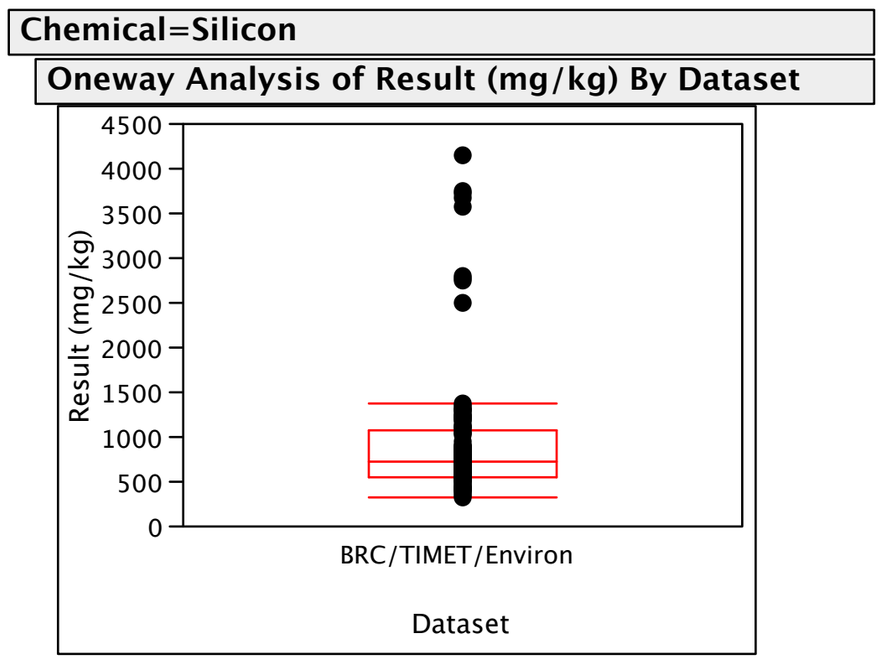
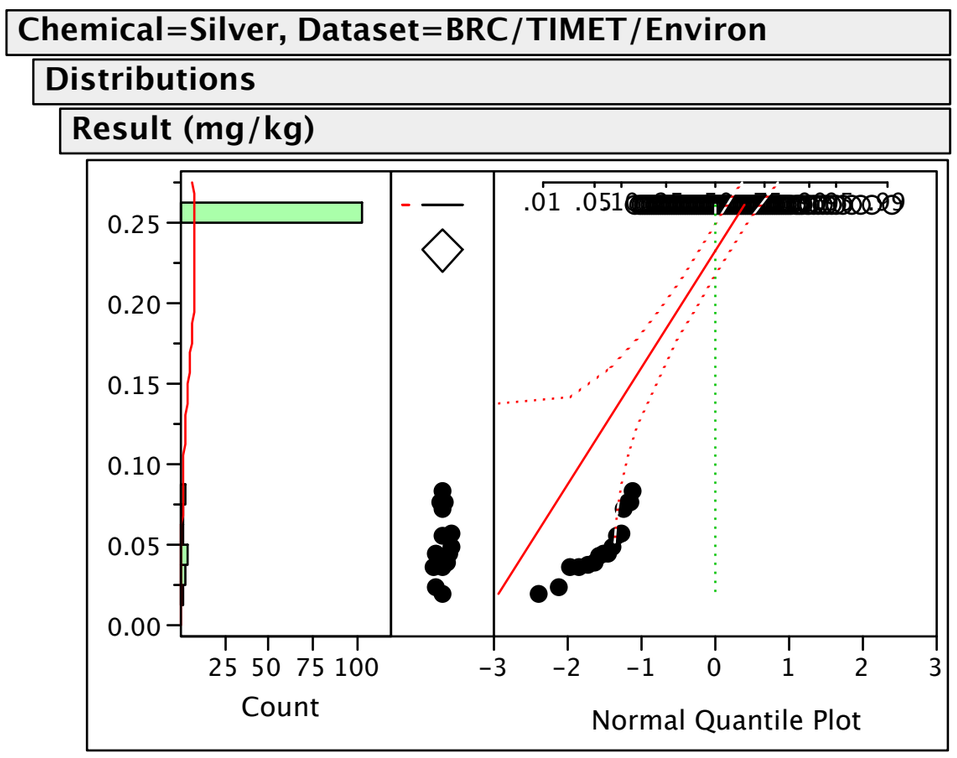


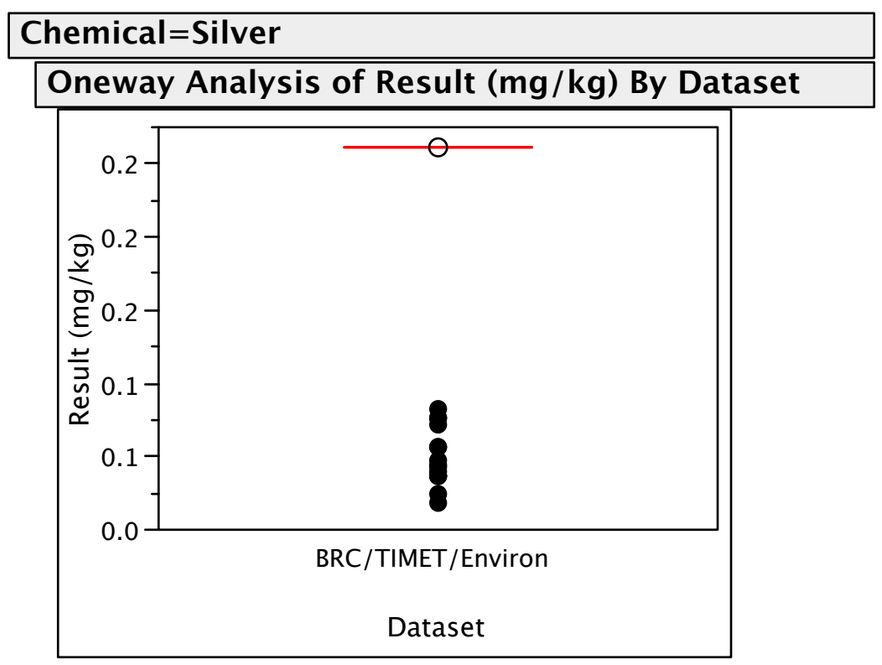
FIGURE G-1 (Continued)

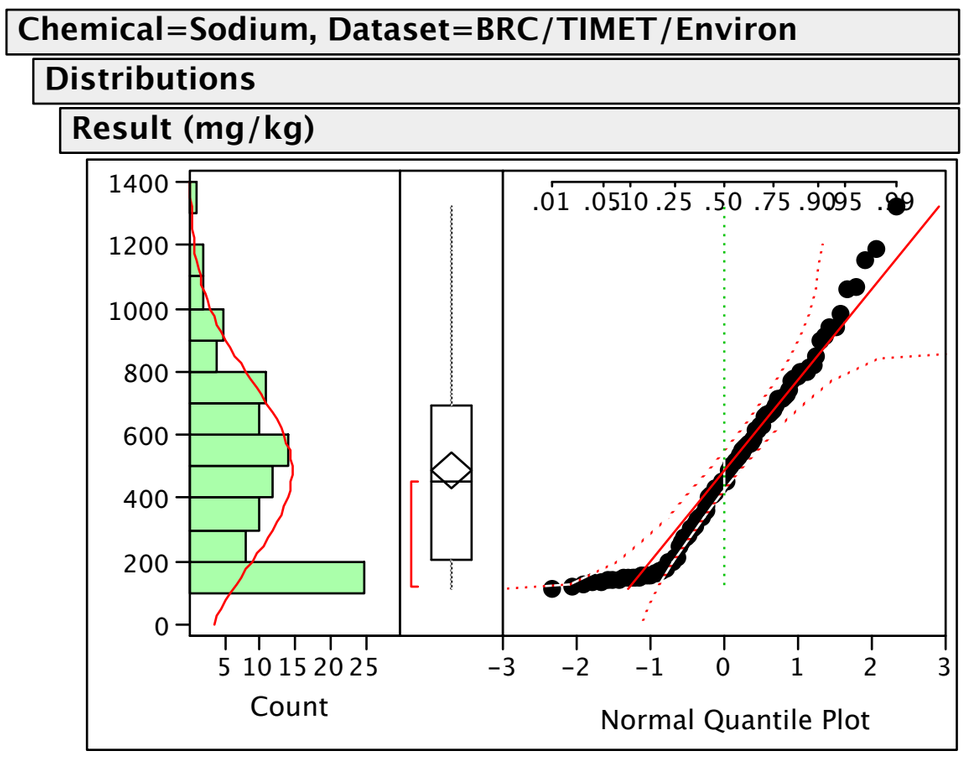
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











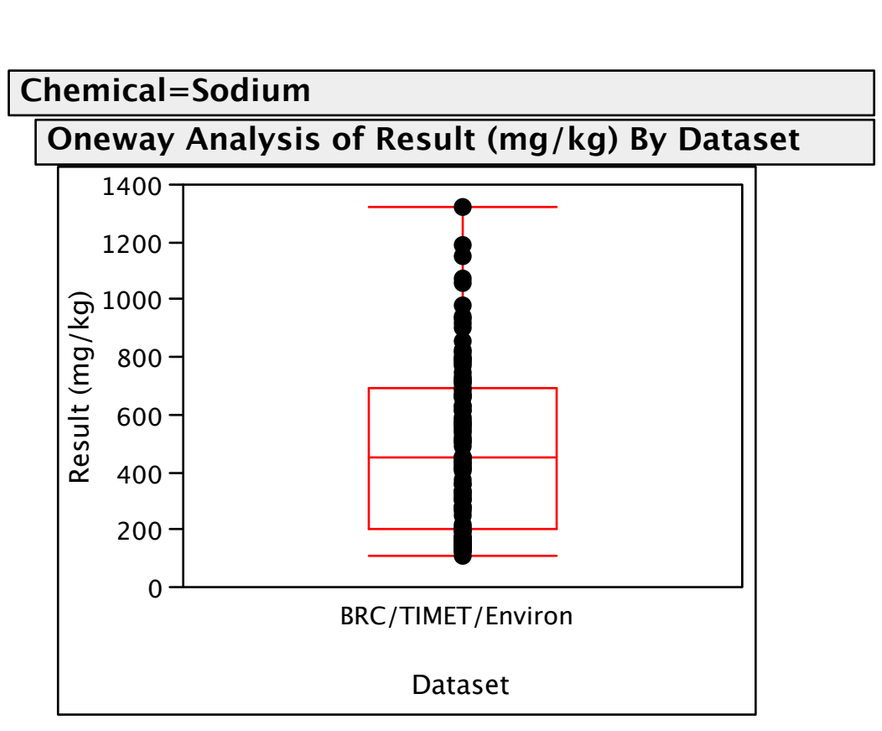
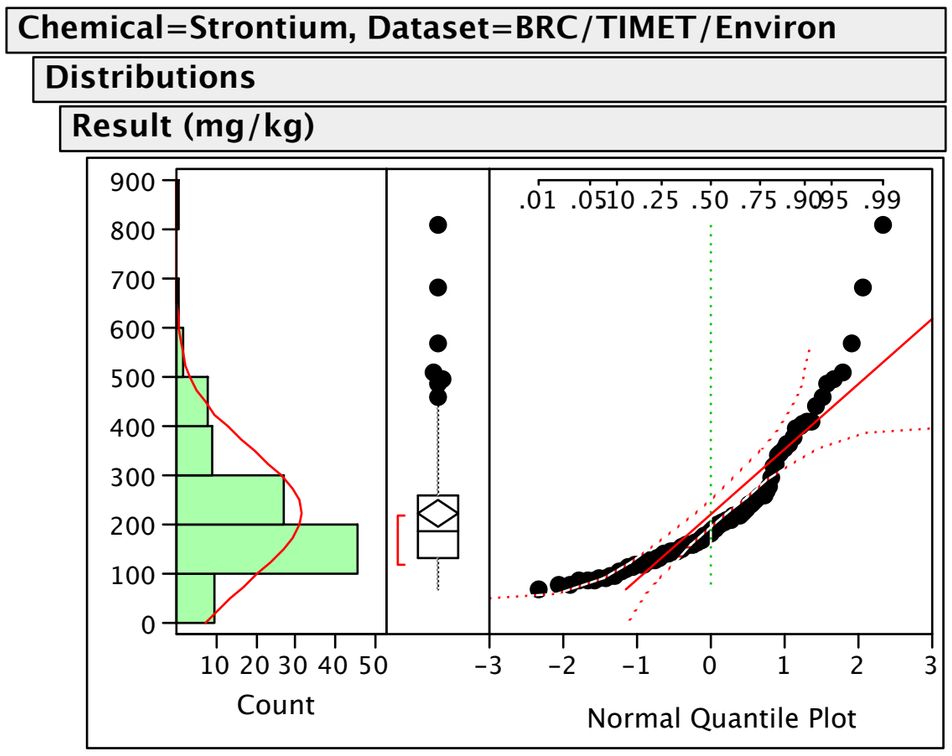
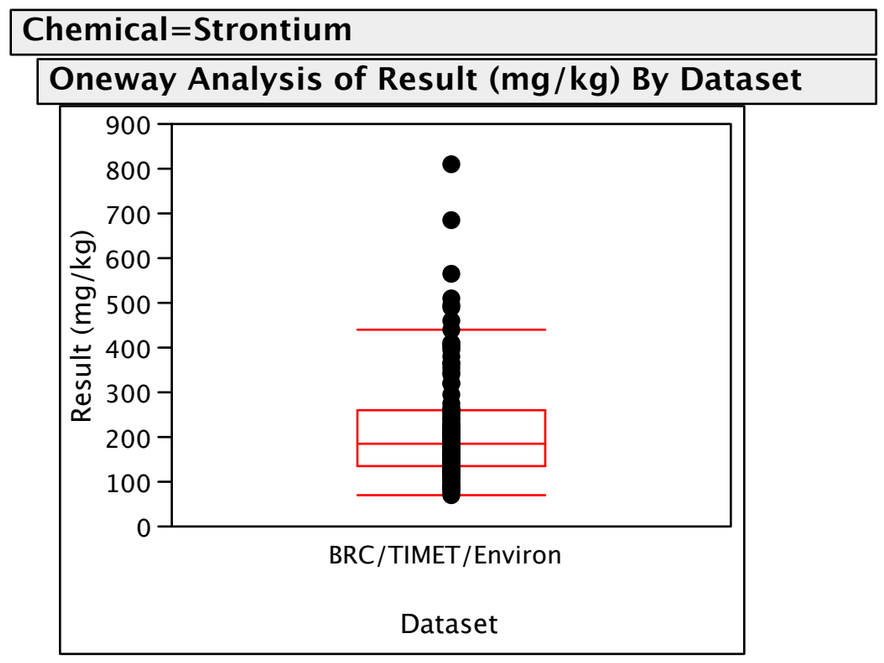
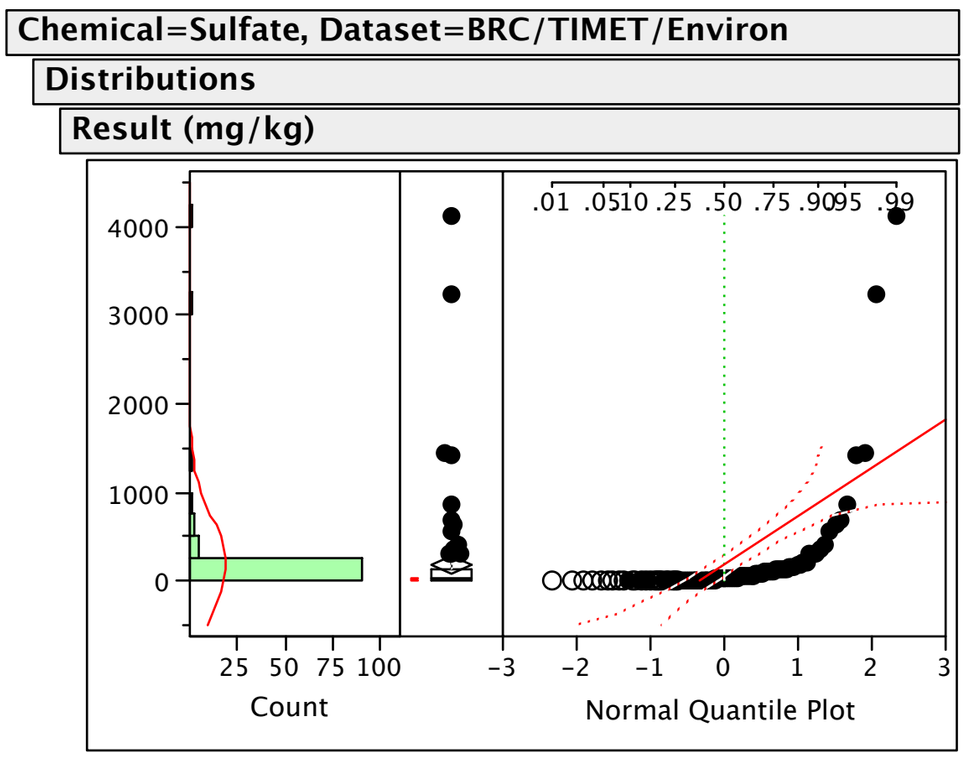


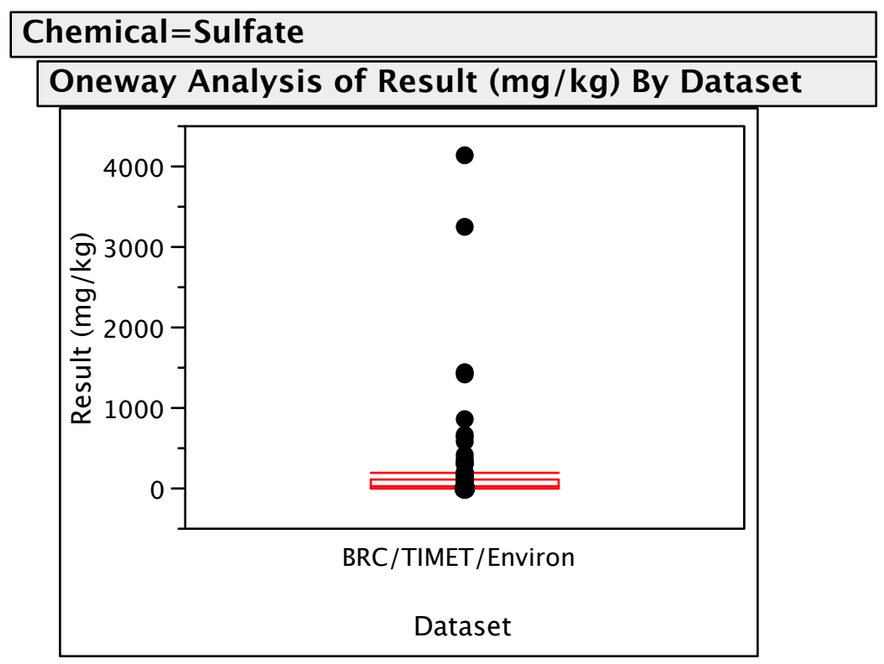
FIGURE G-1 (Continued)

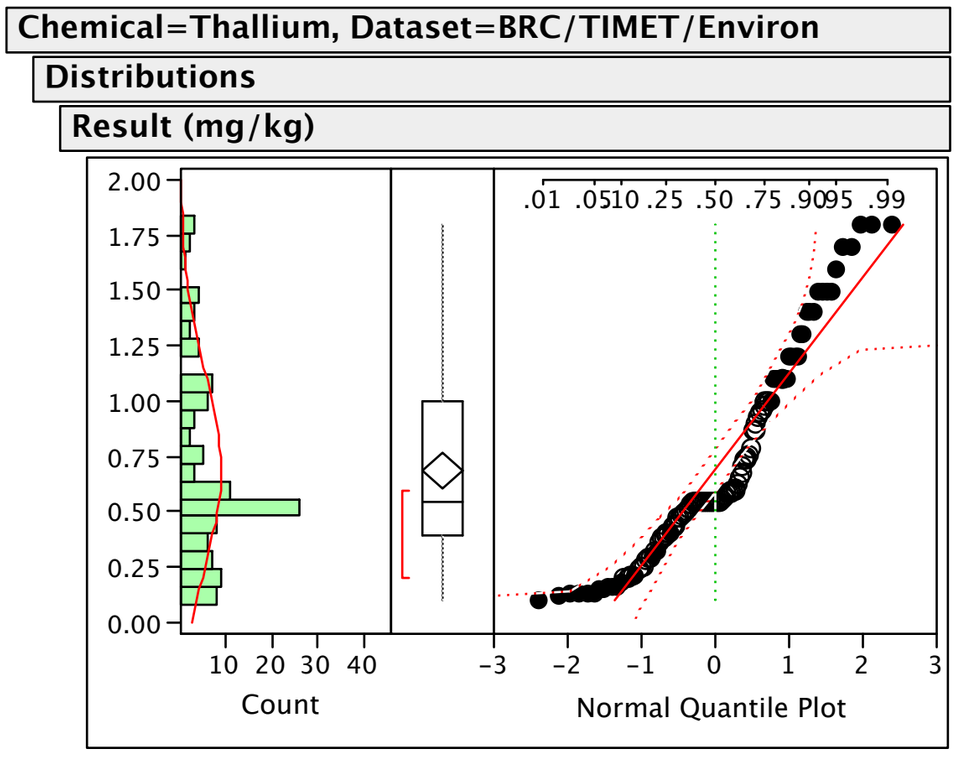
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











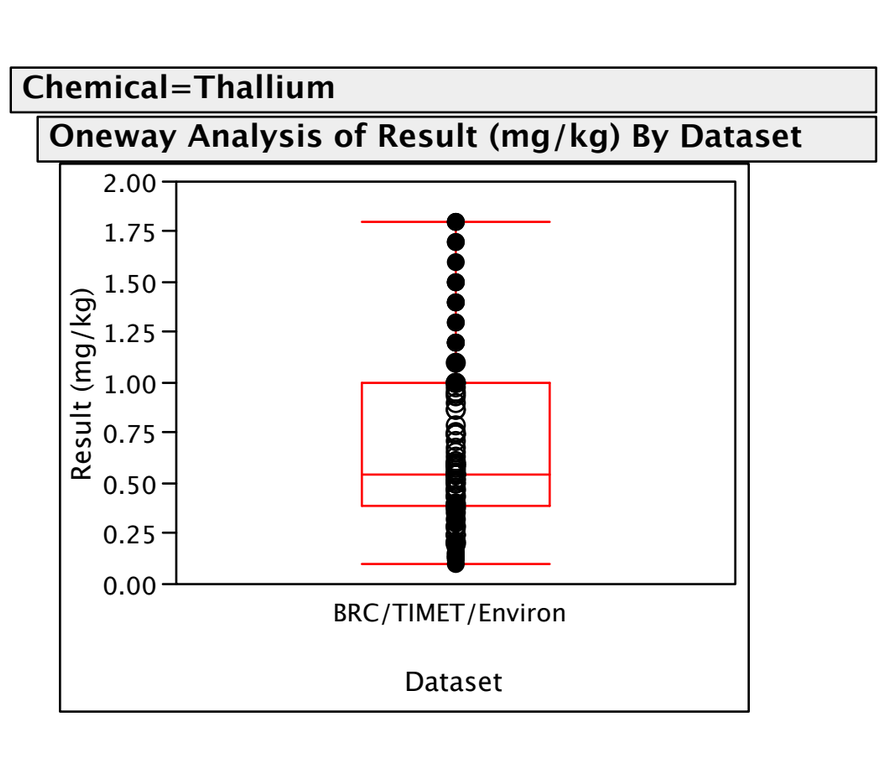
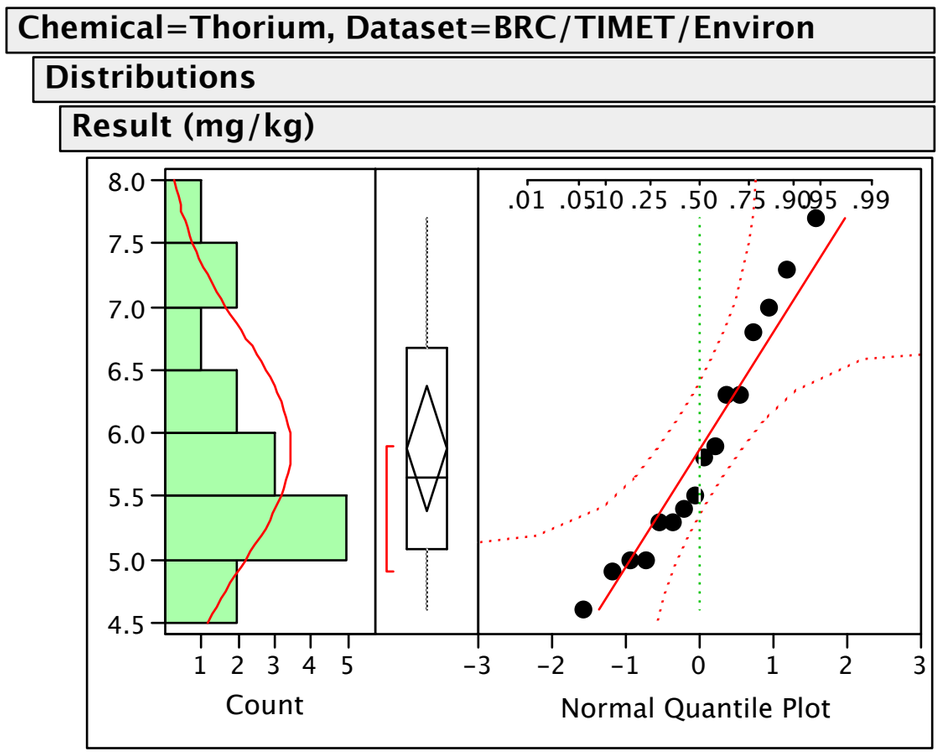
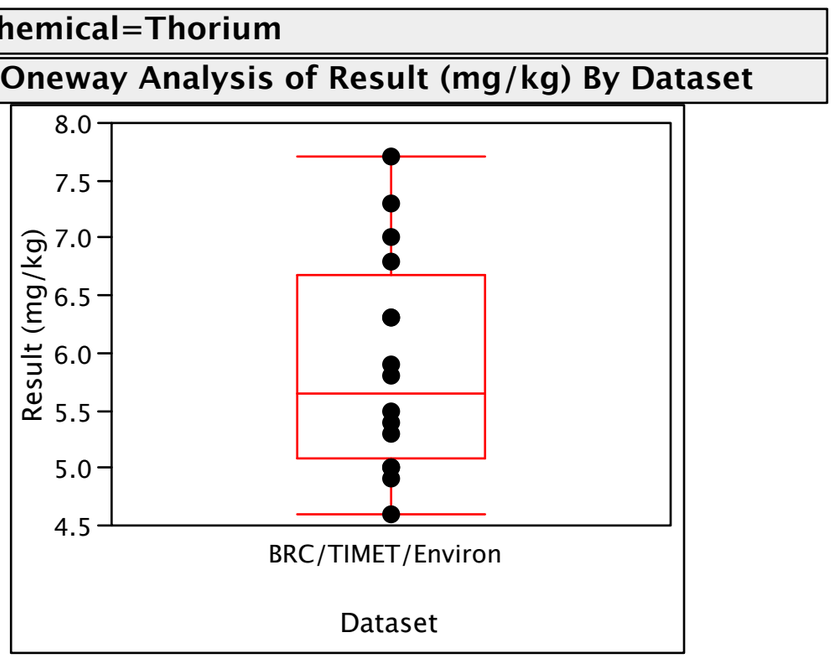
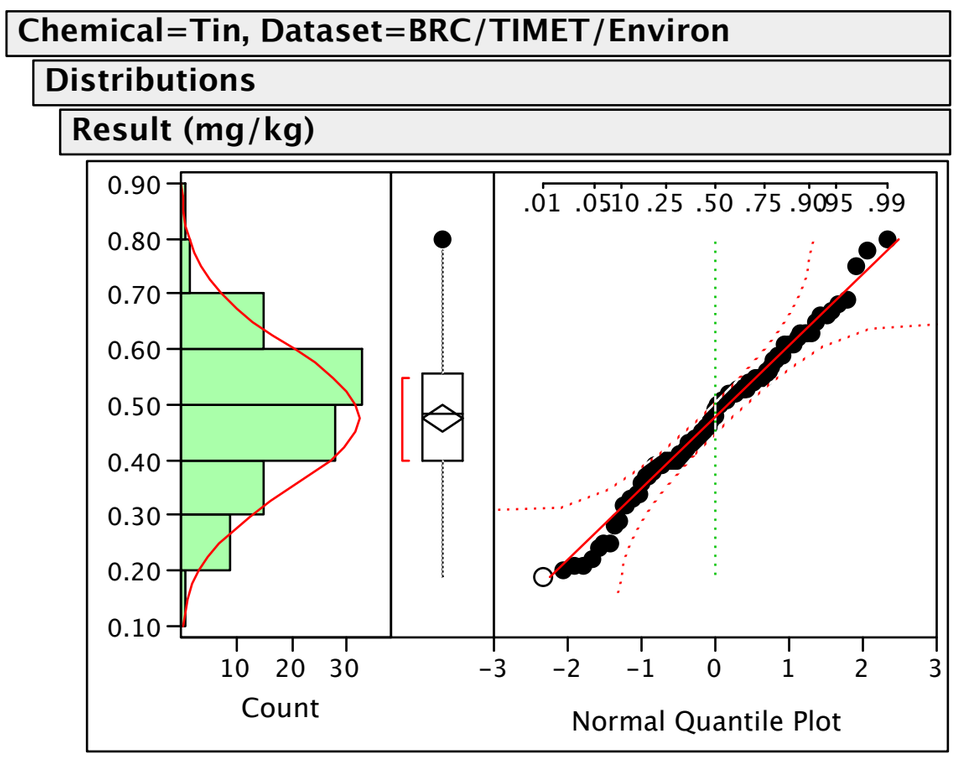


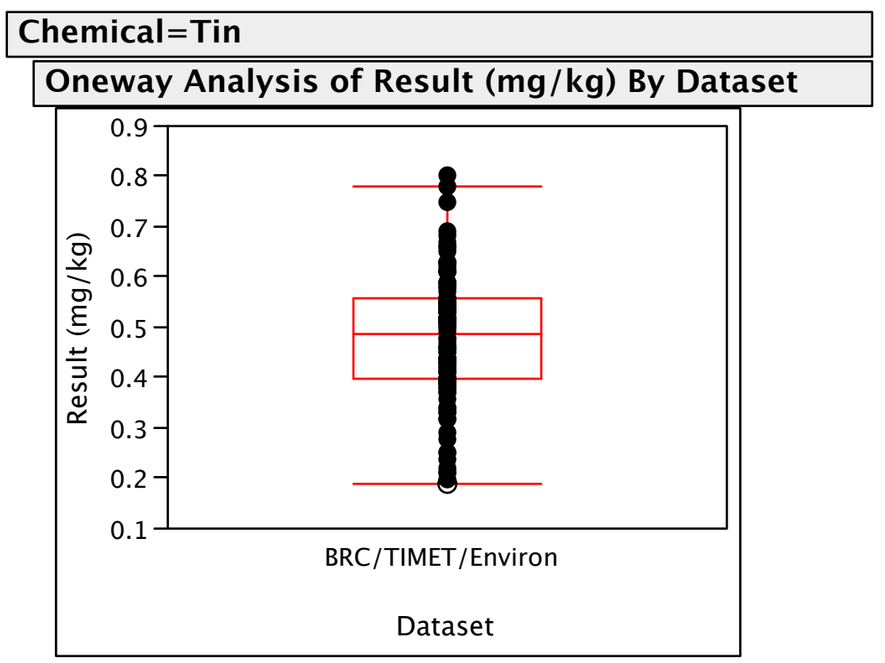
FIGURE G-1 (Continued)

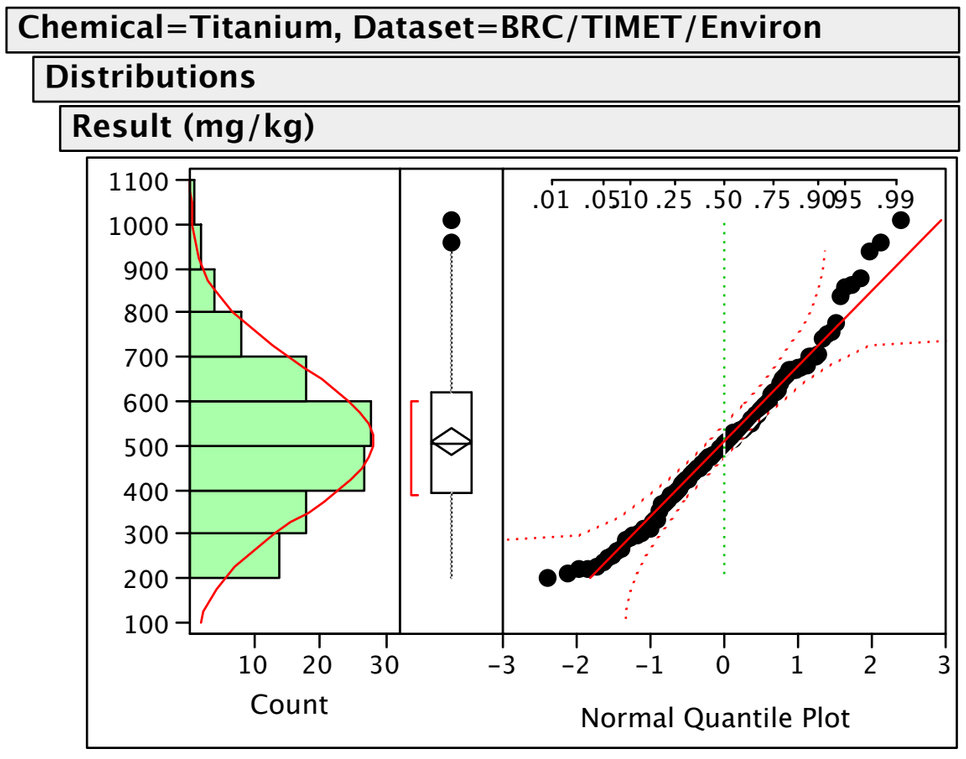
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











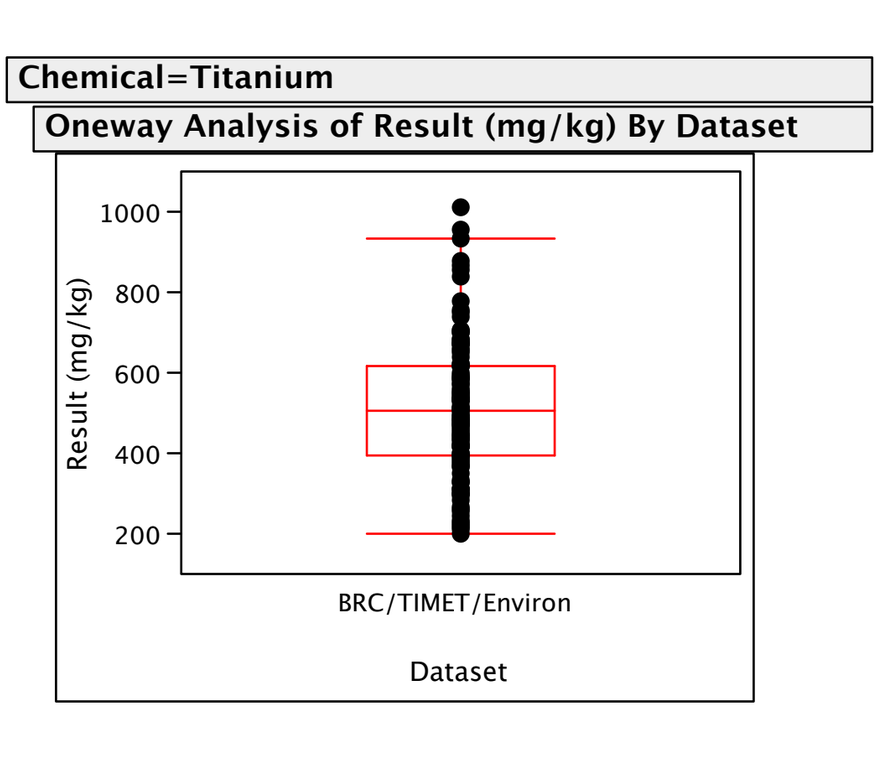
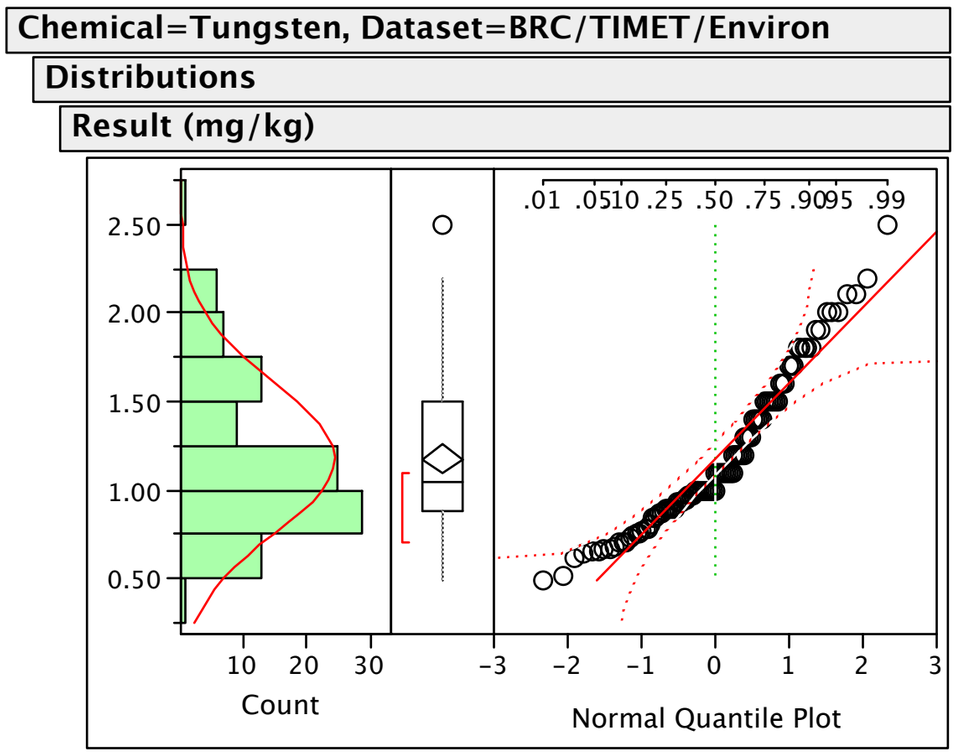
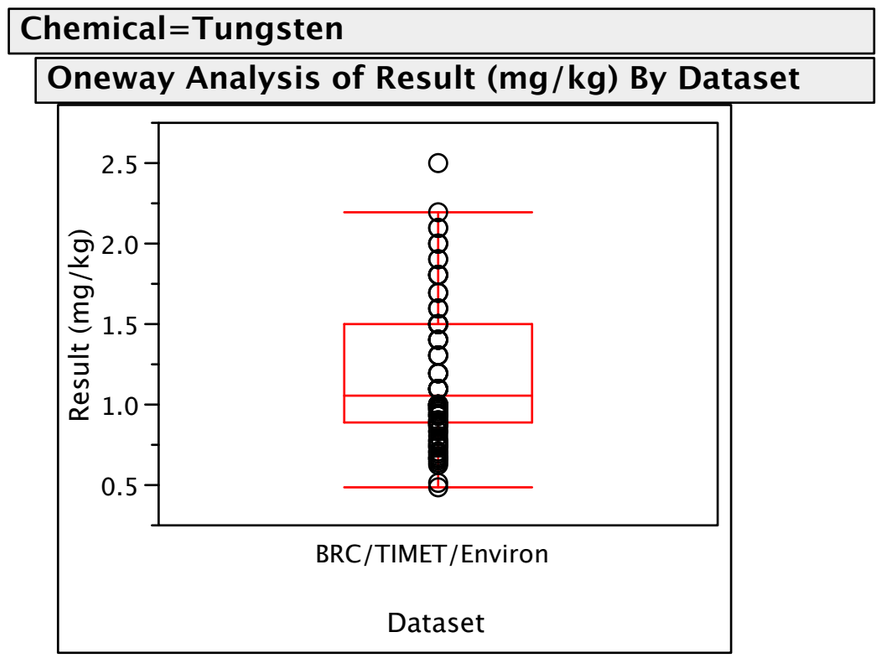
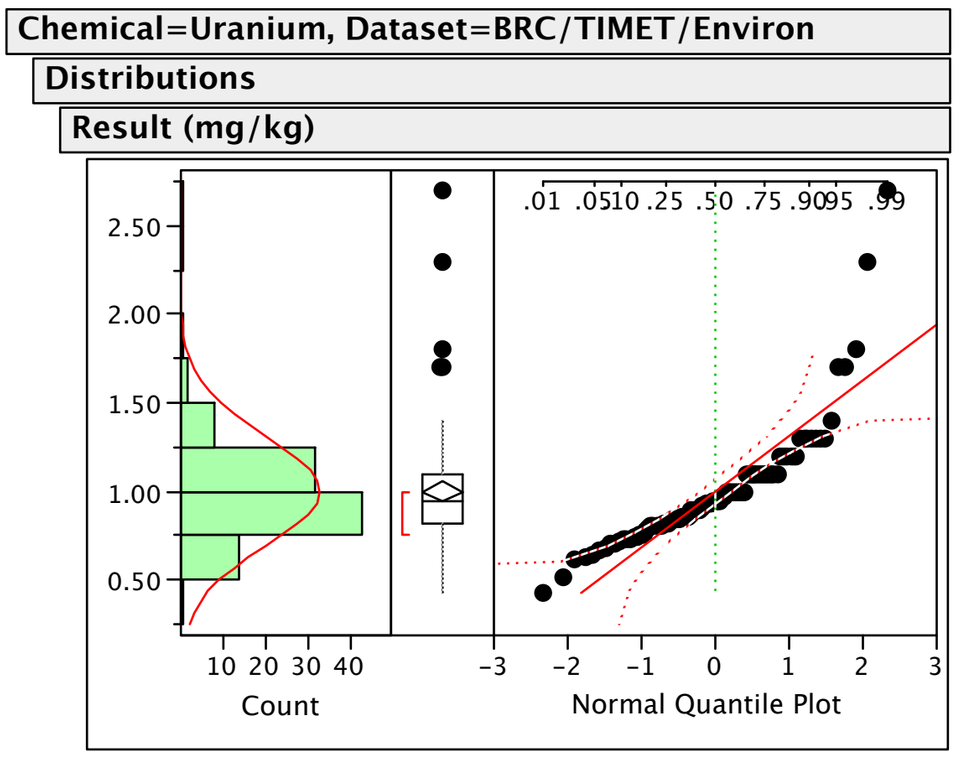


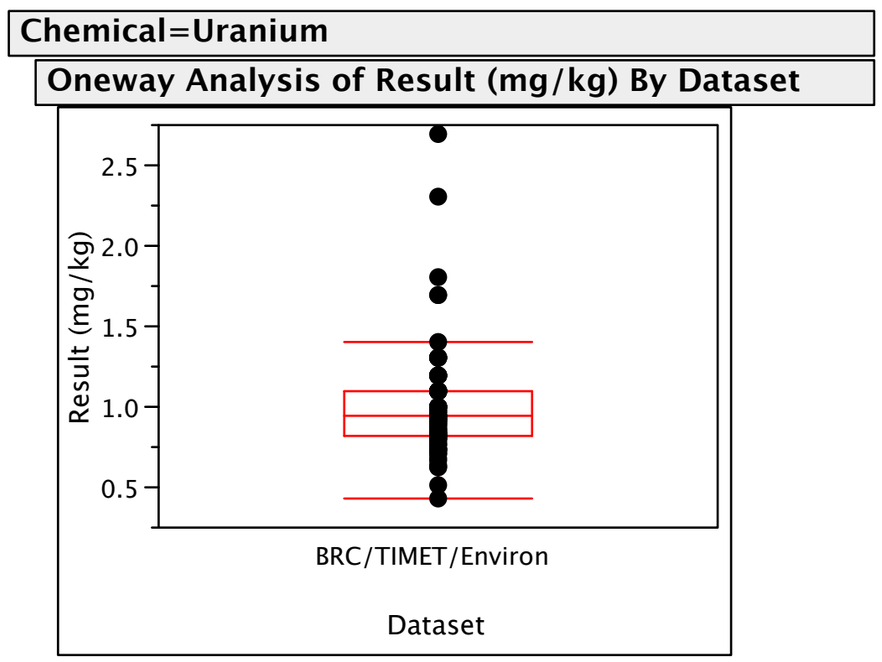
FIGURE G-1 (Continued)

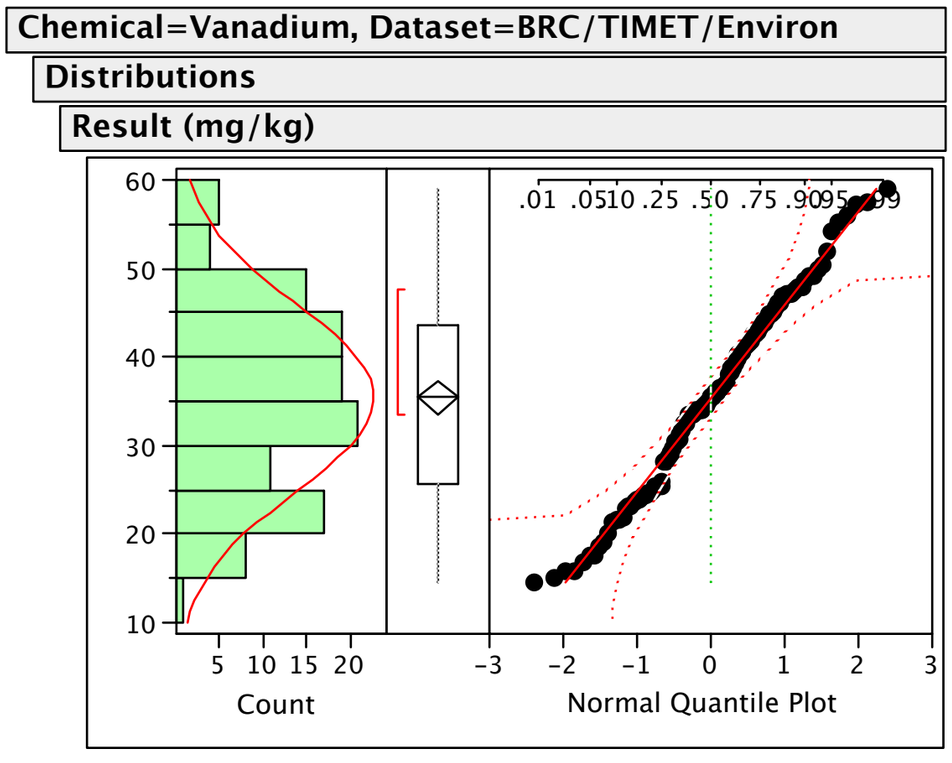
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











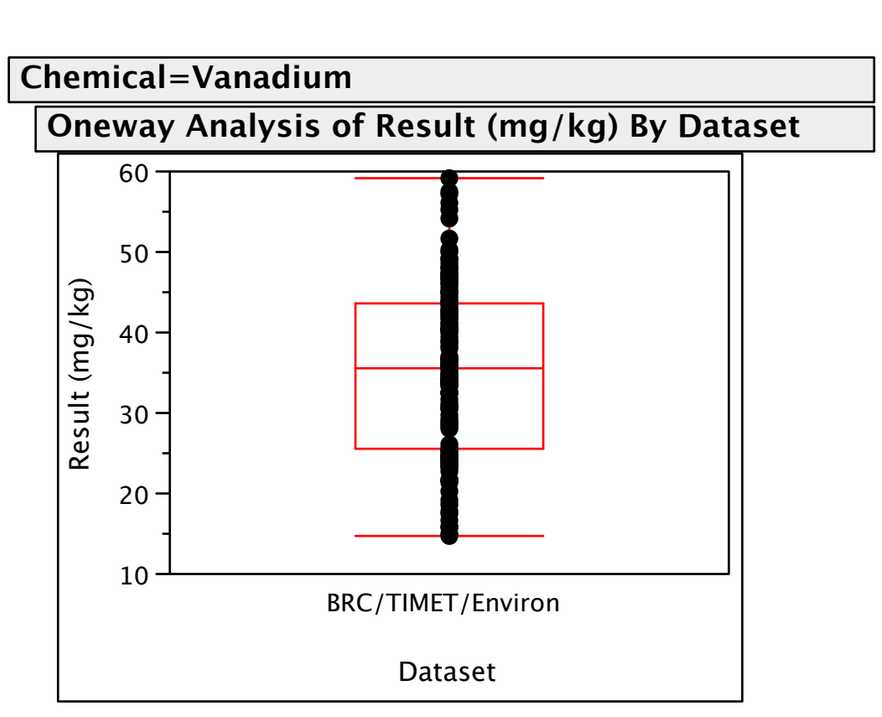
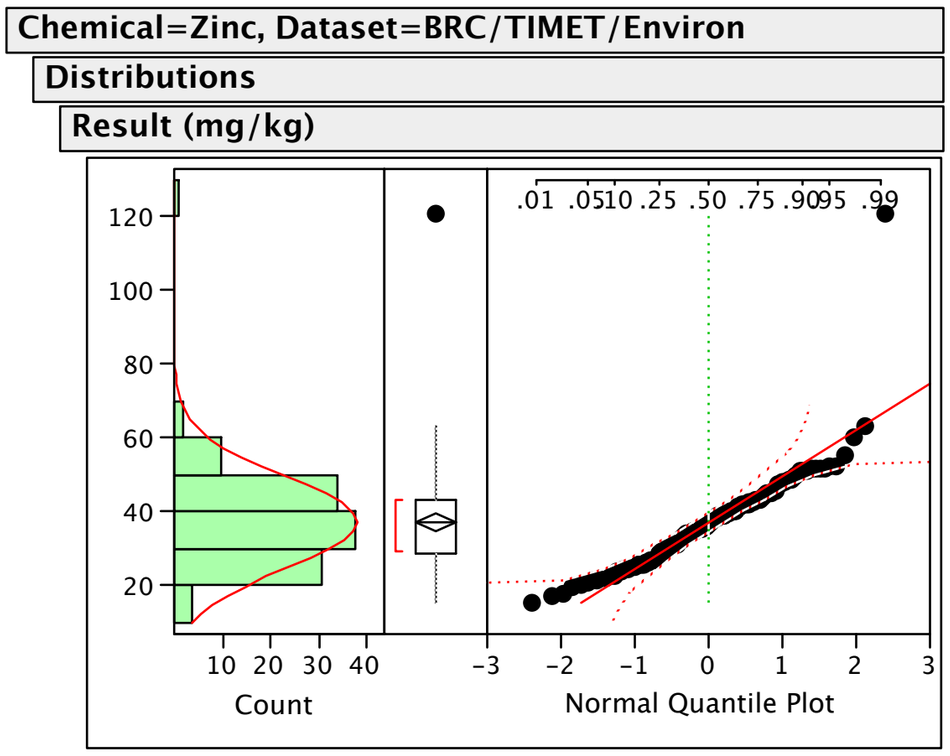
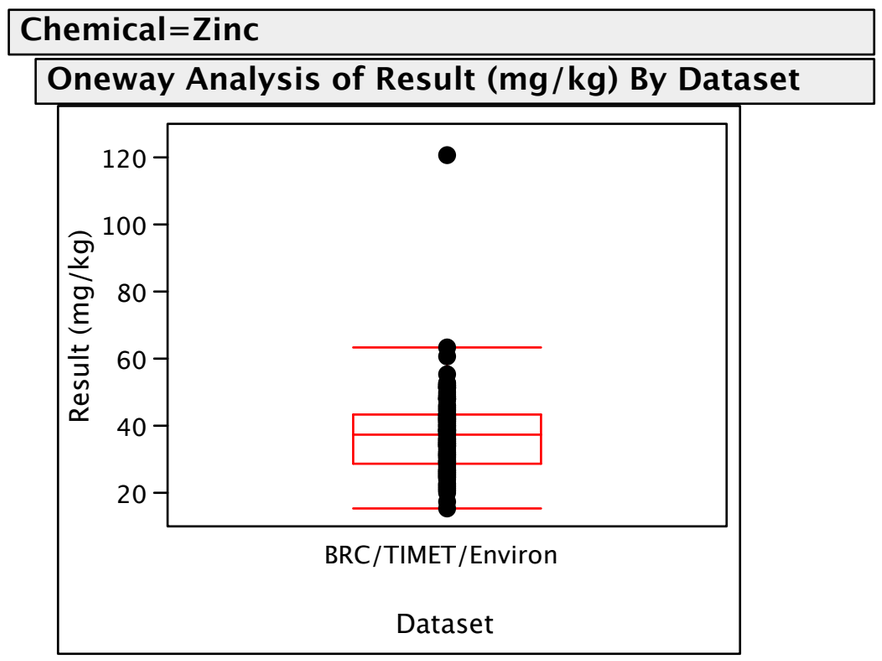
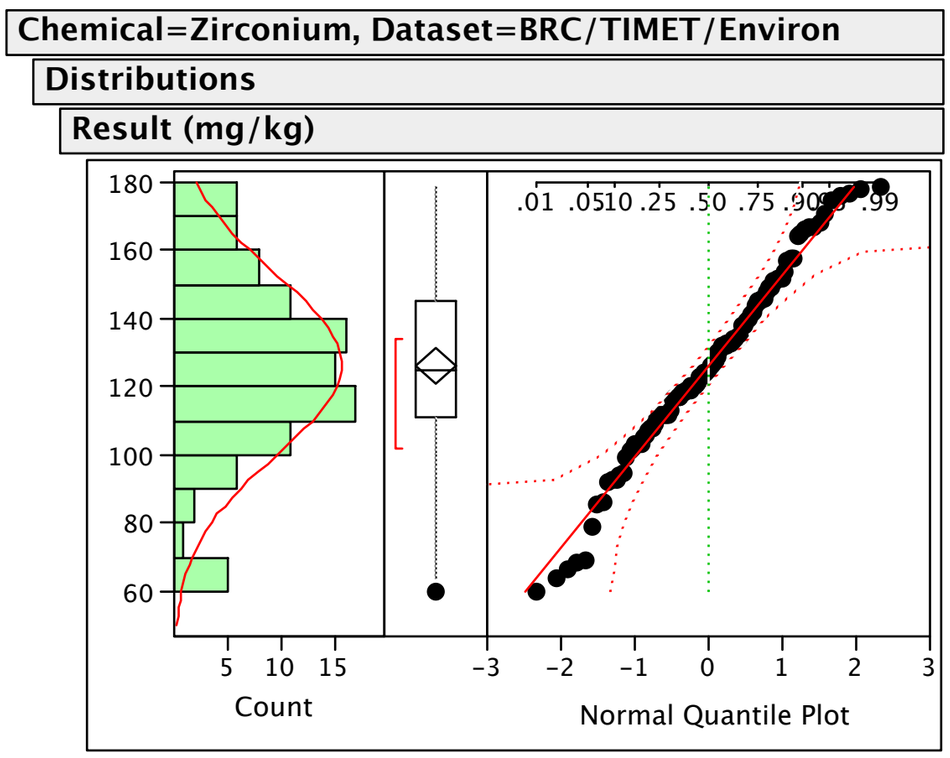


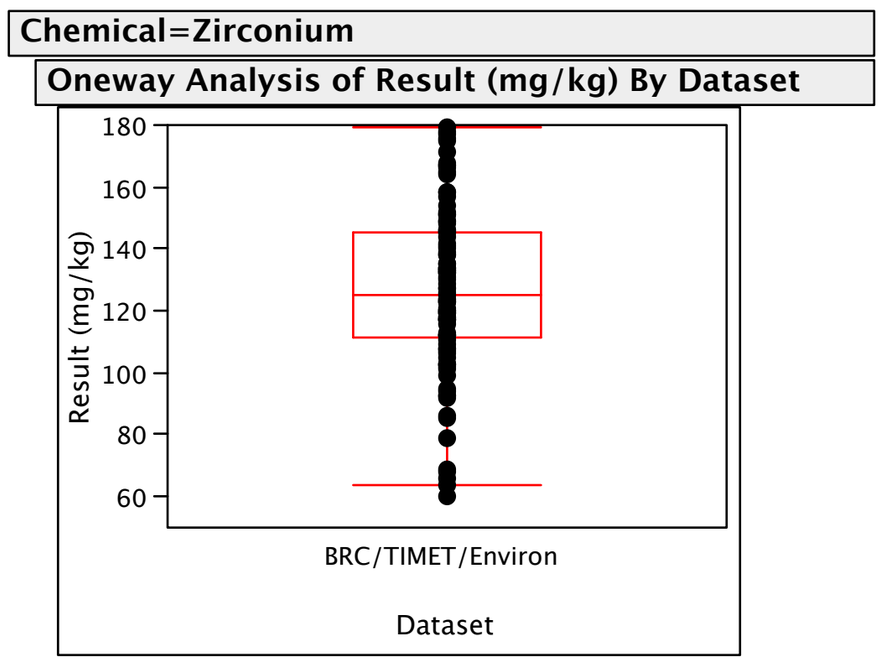
FIGURE G-1 (Continued)

DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL



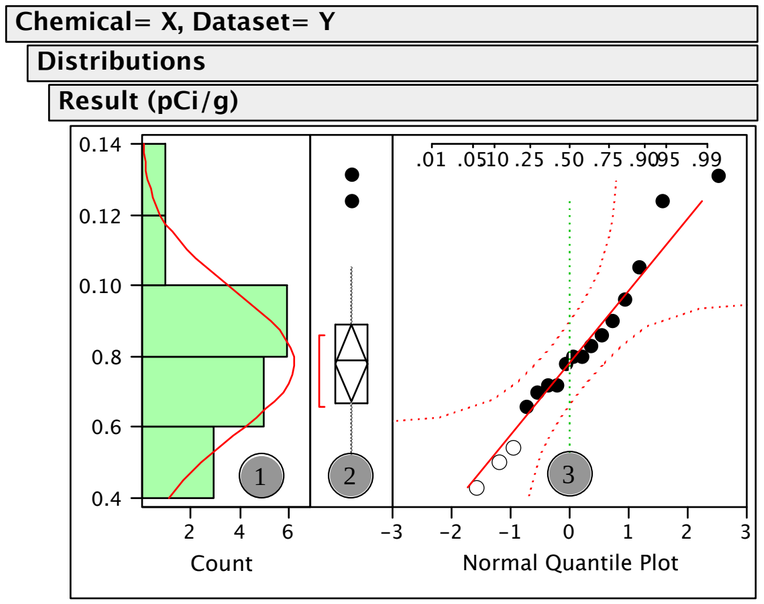


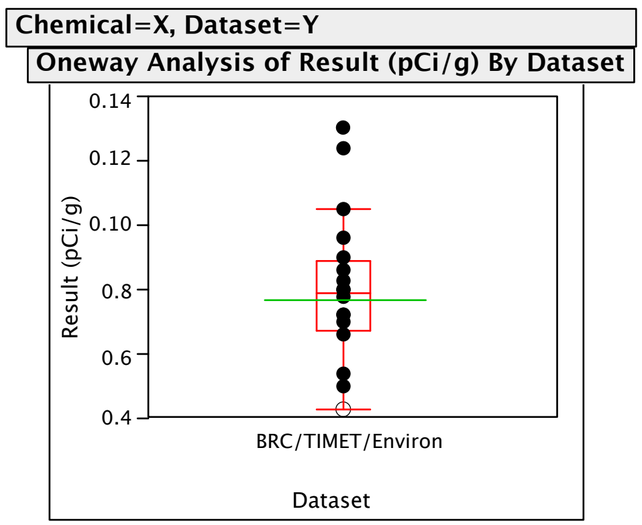




KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-2

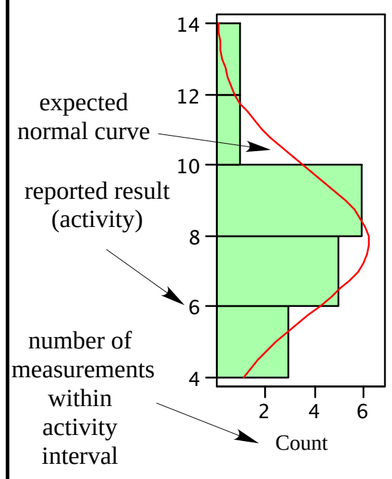
Example Figures From Appendix



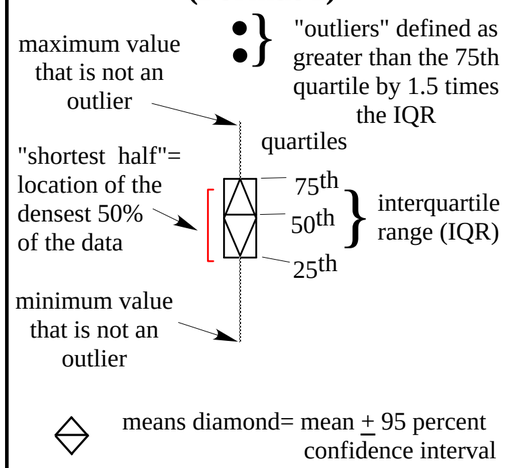


Keys to Individual Figure Panels

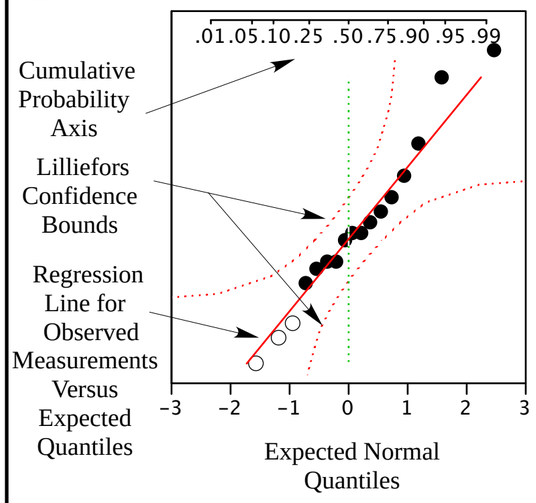
1 Frequency Histogram



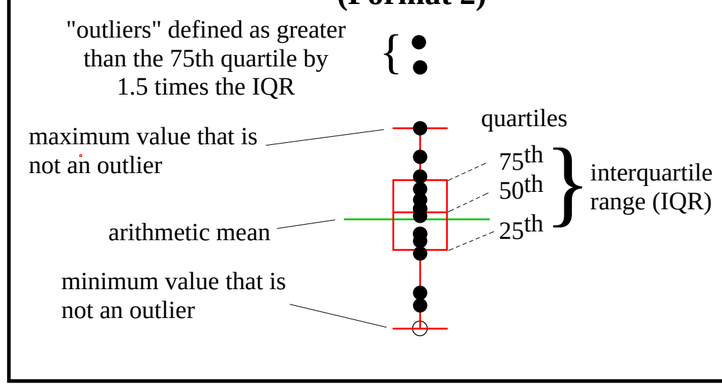
2 Outlier Box-Plot (Format 1)



3 Normal Quantile Plot



Outlier Box-Plot (Format 2)



- ● detected result
- ○ censored result

FIGURE G-2

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

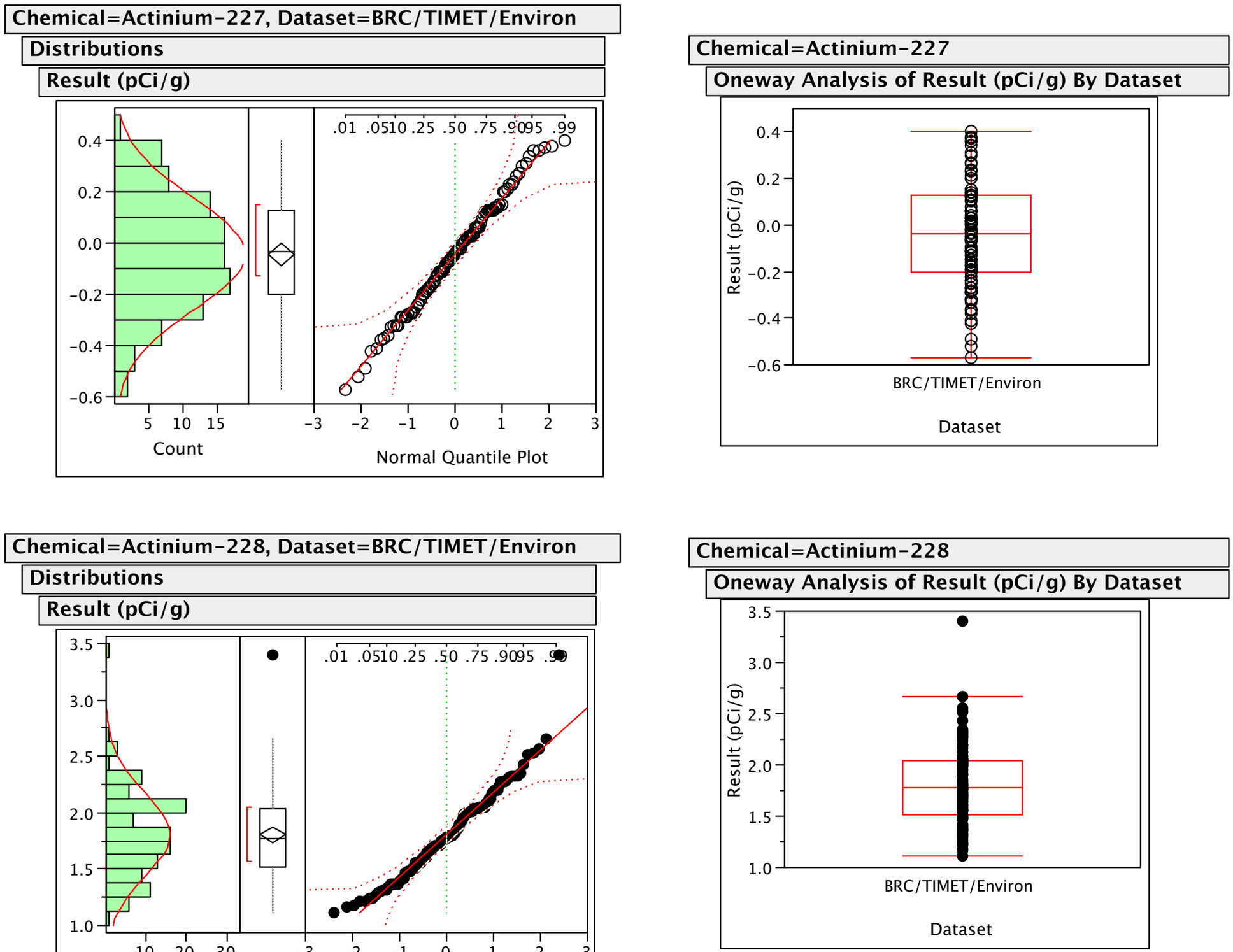


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

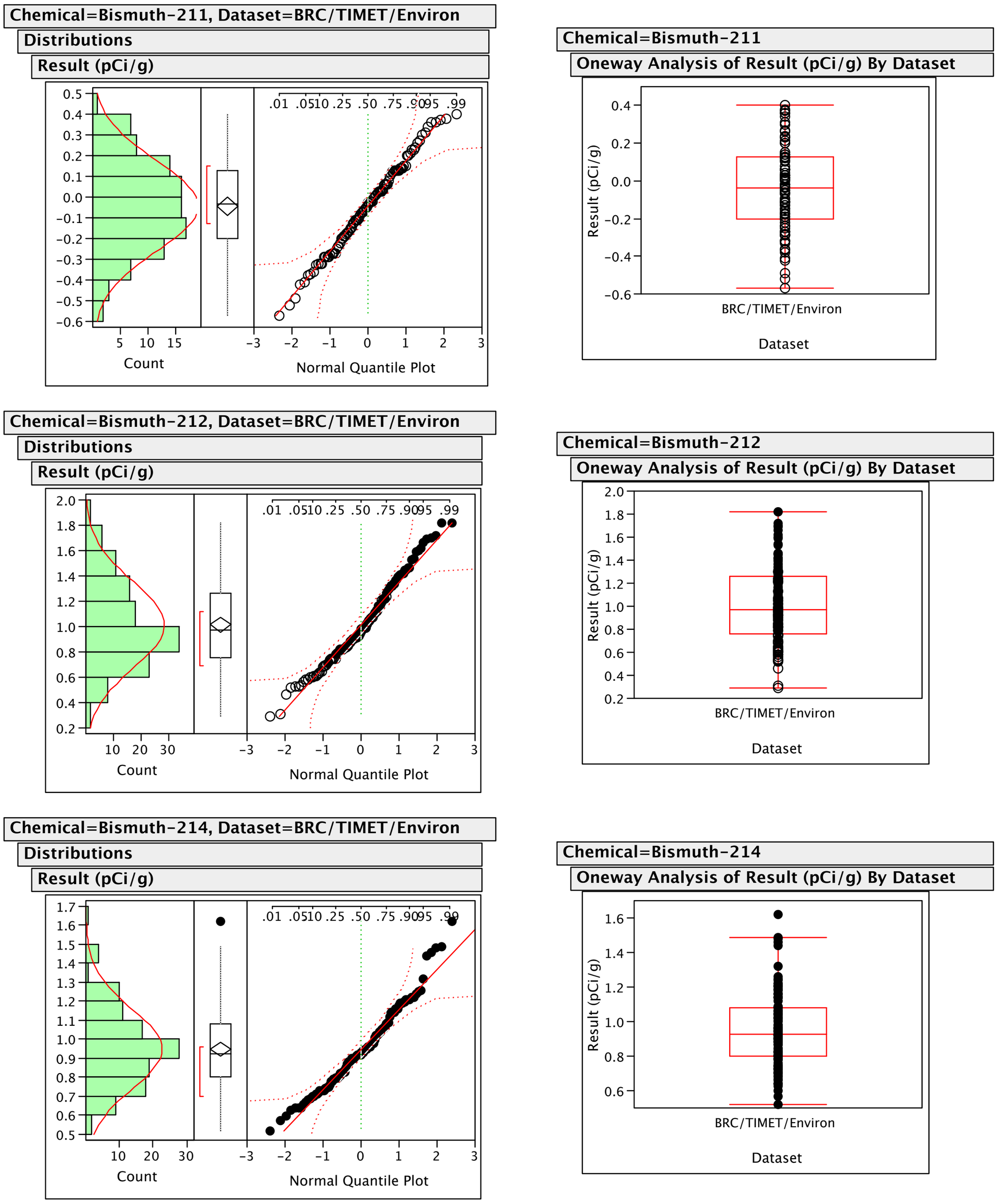
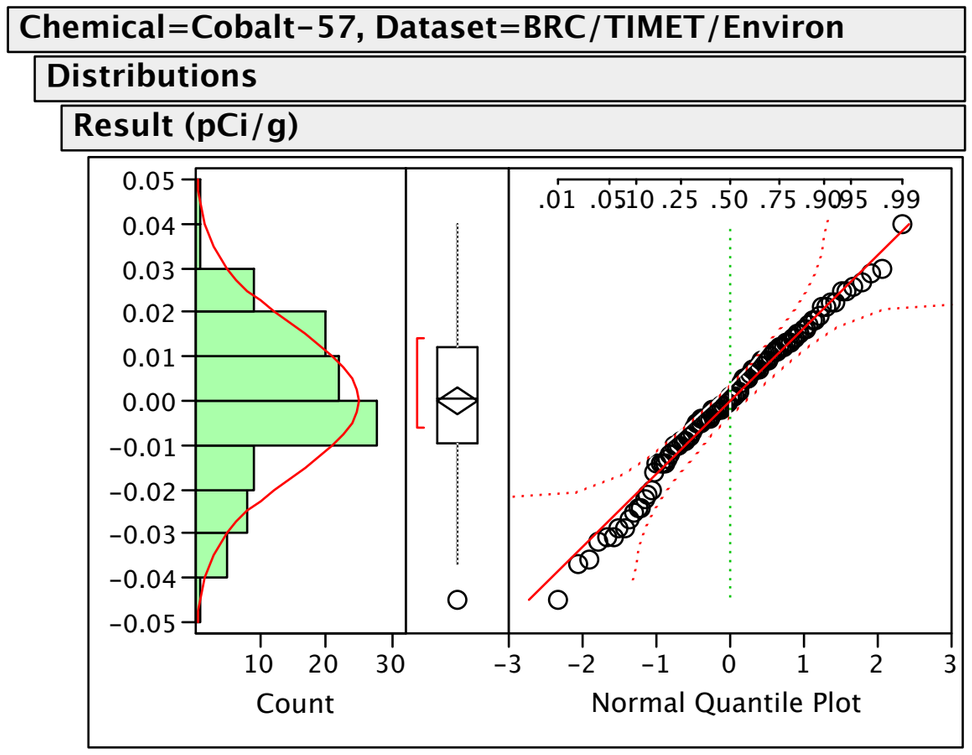
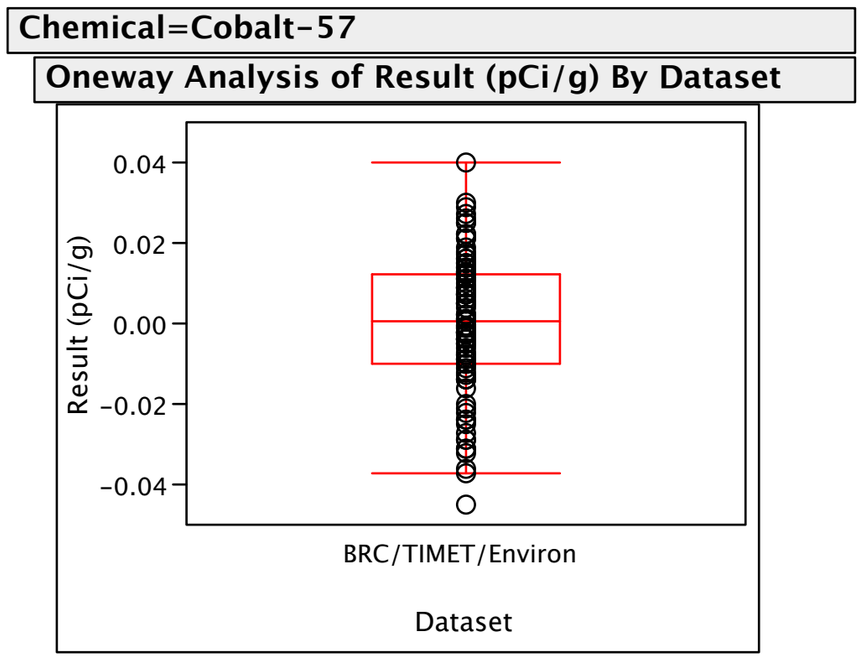
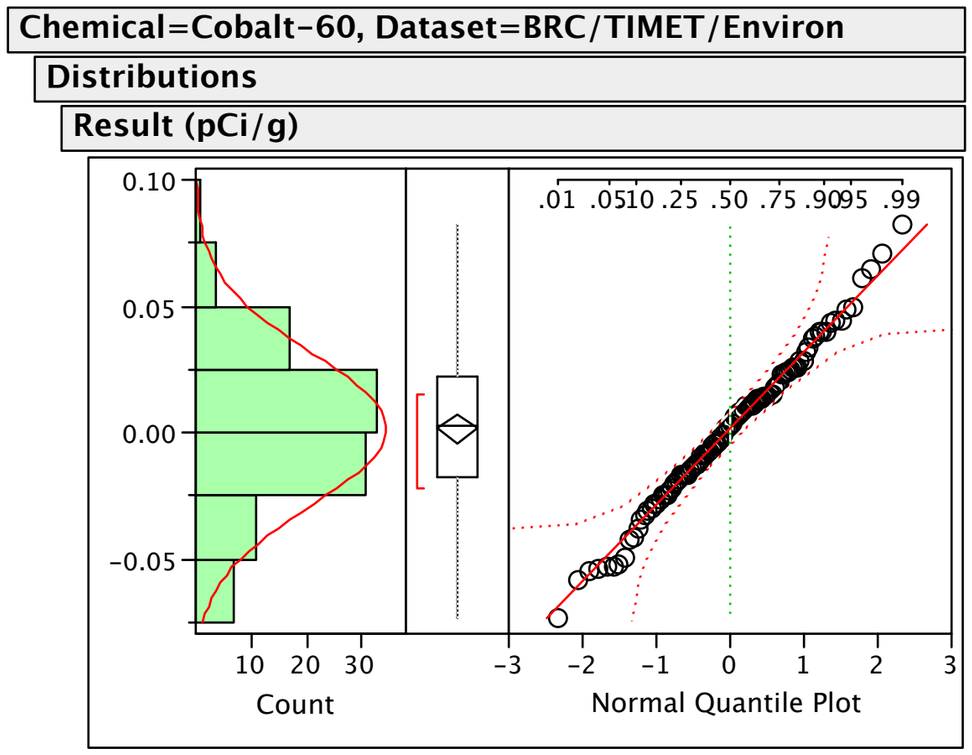


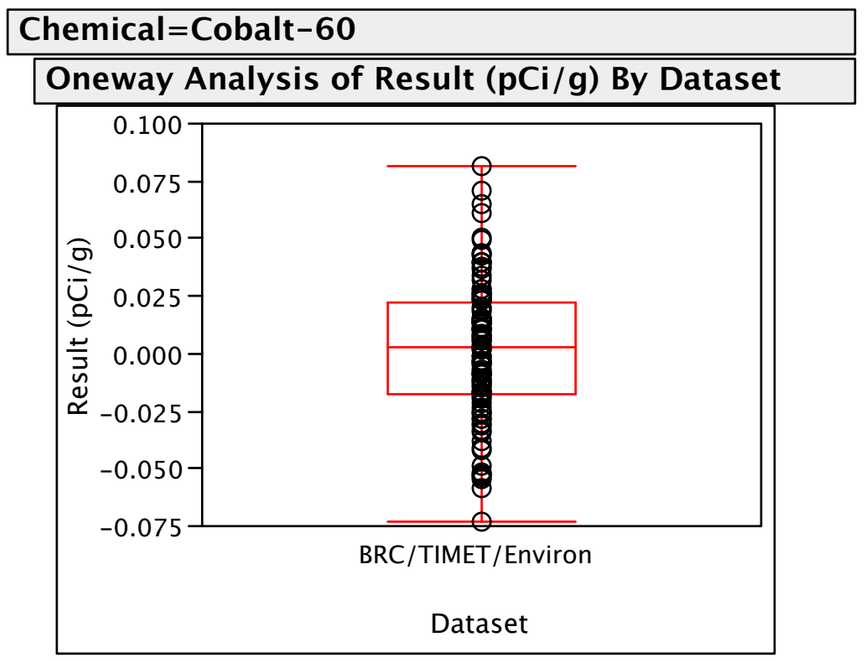
FIGURE G-2 (Continued)

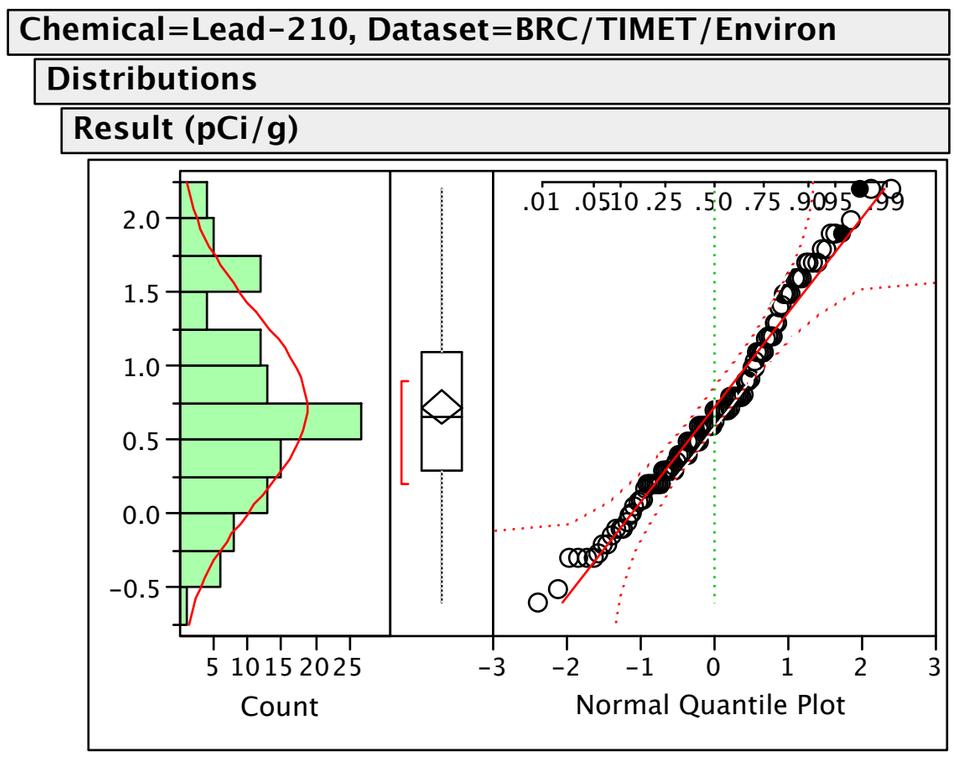
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











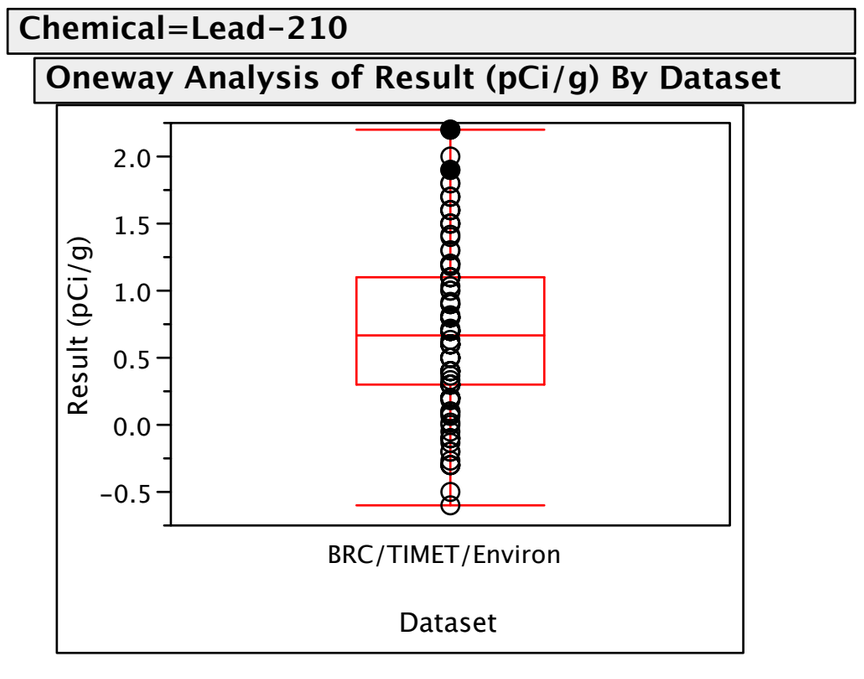
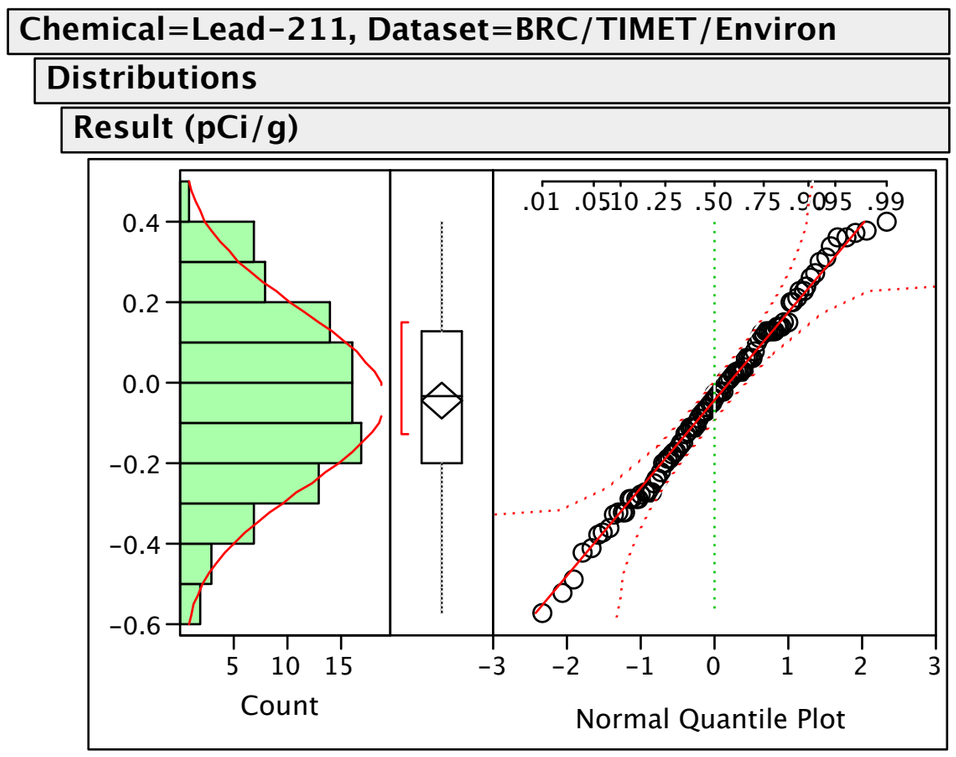
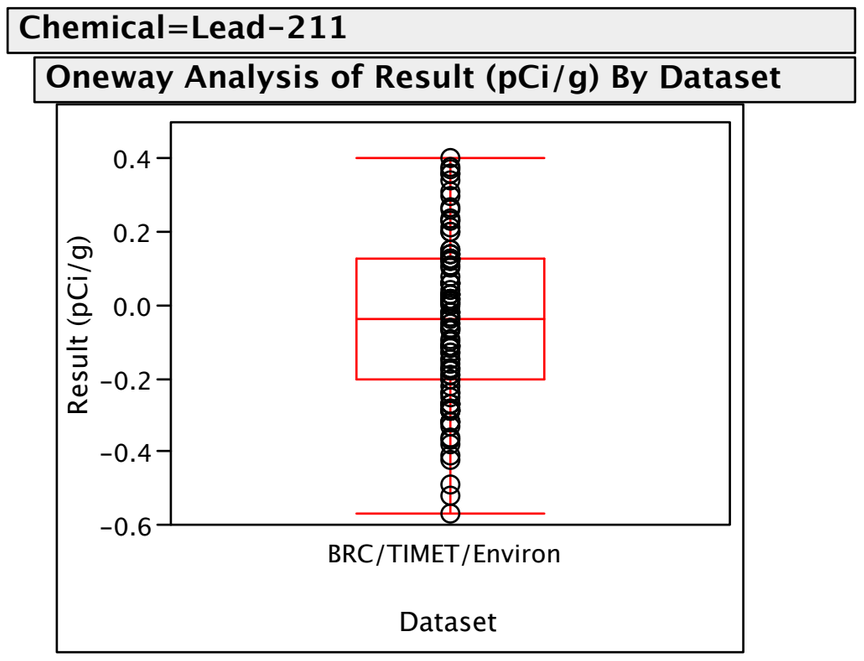
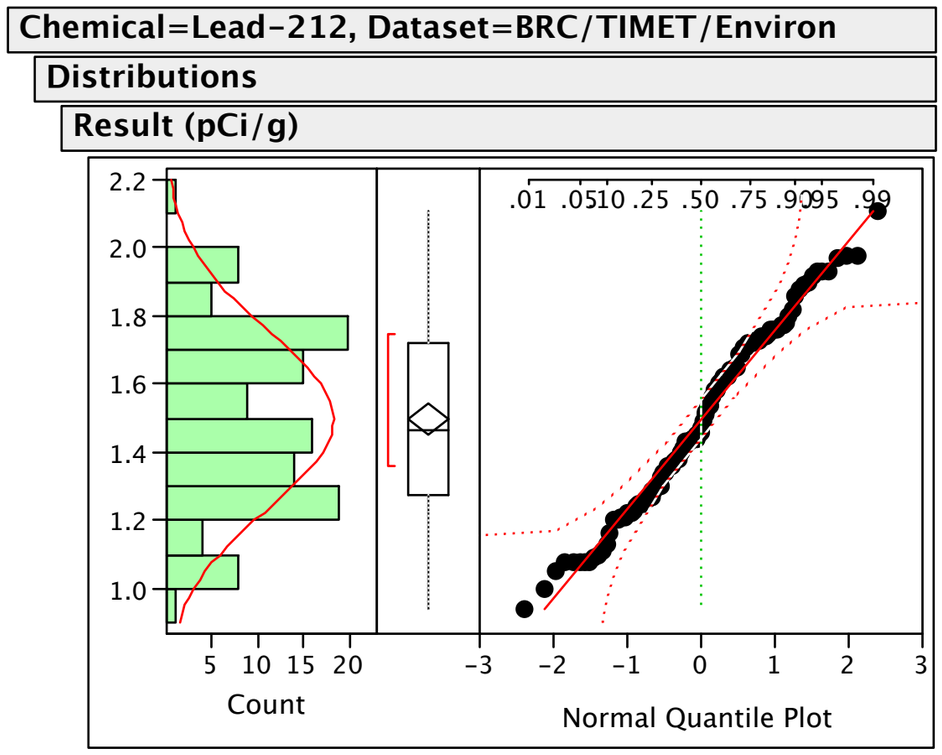


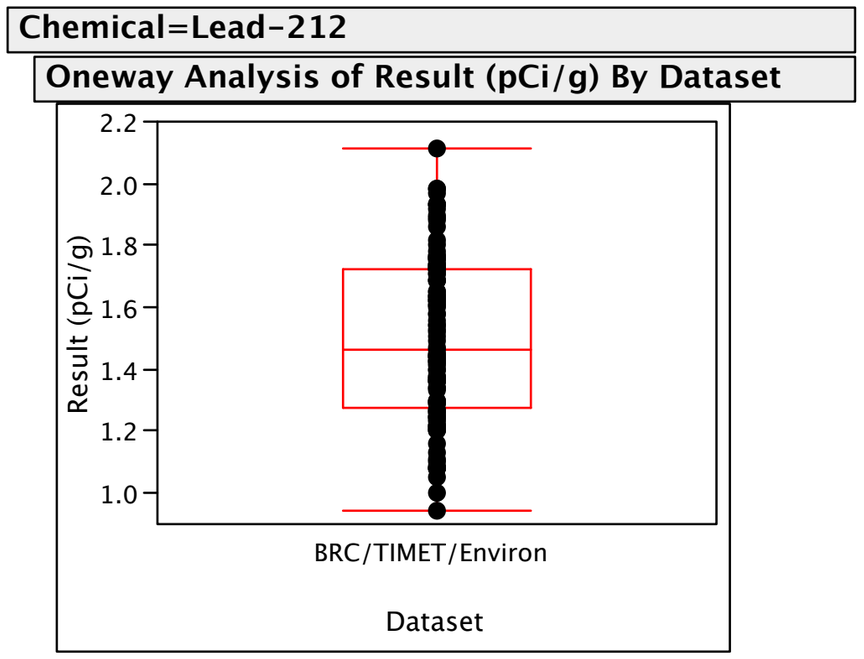
FIGURE G-2 (Continued)

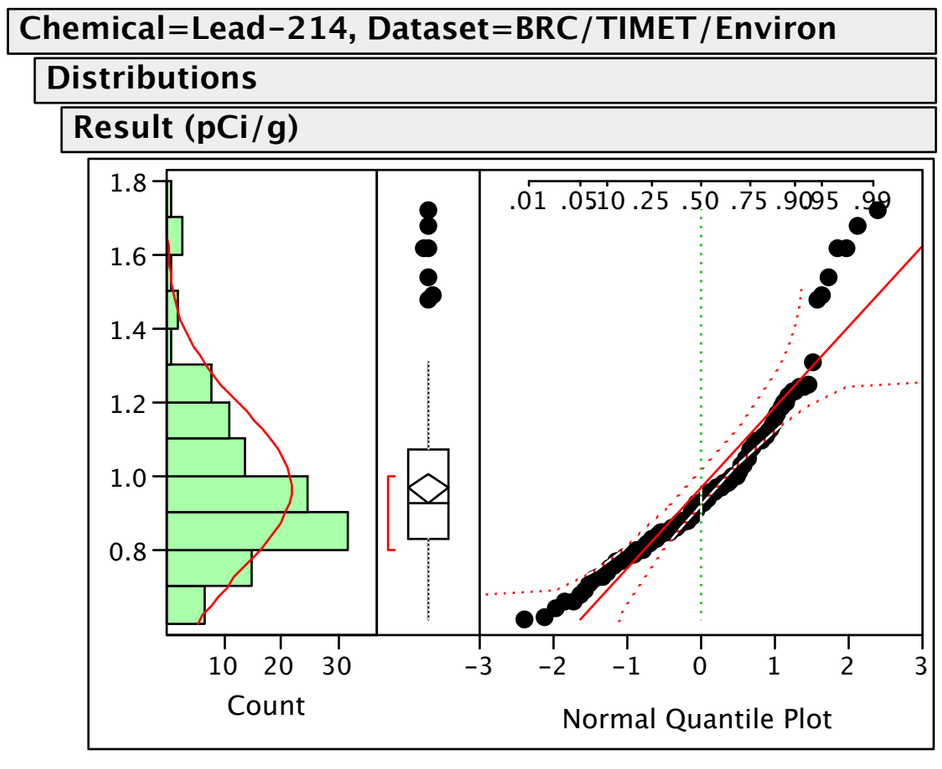
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











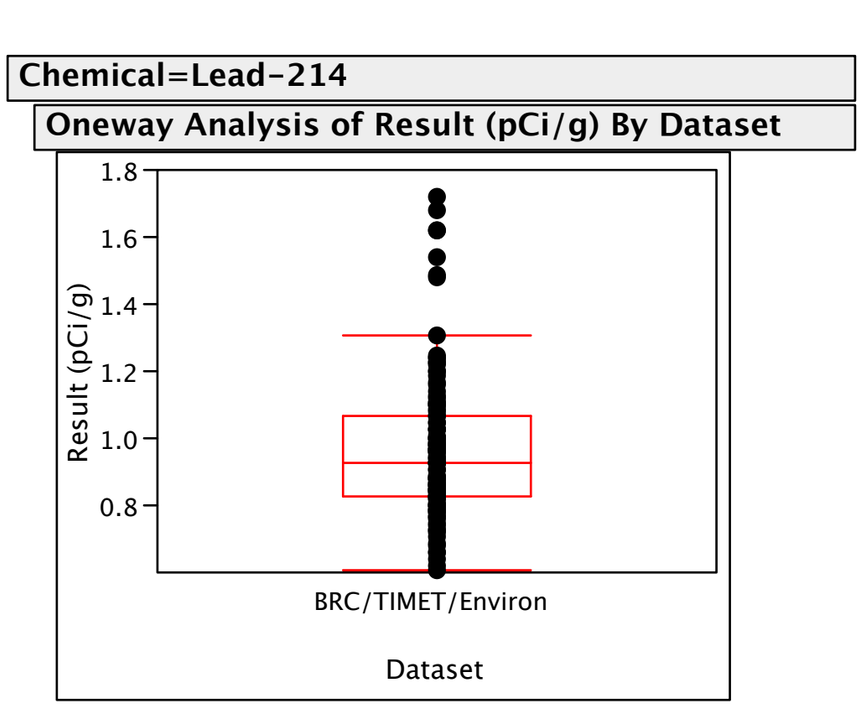
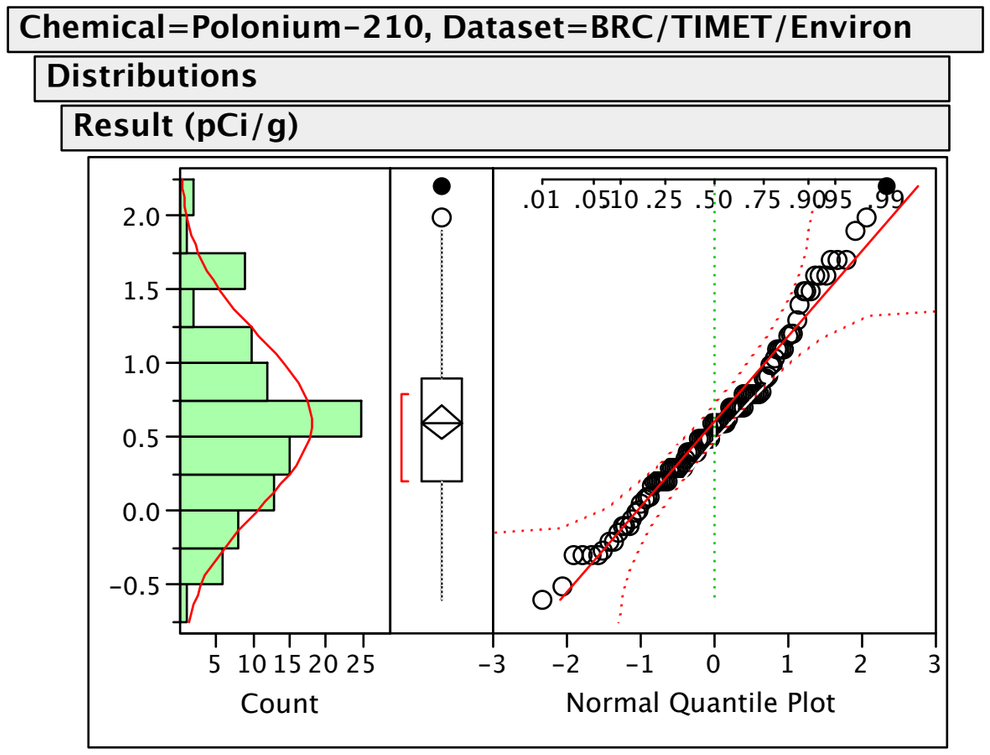
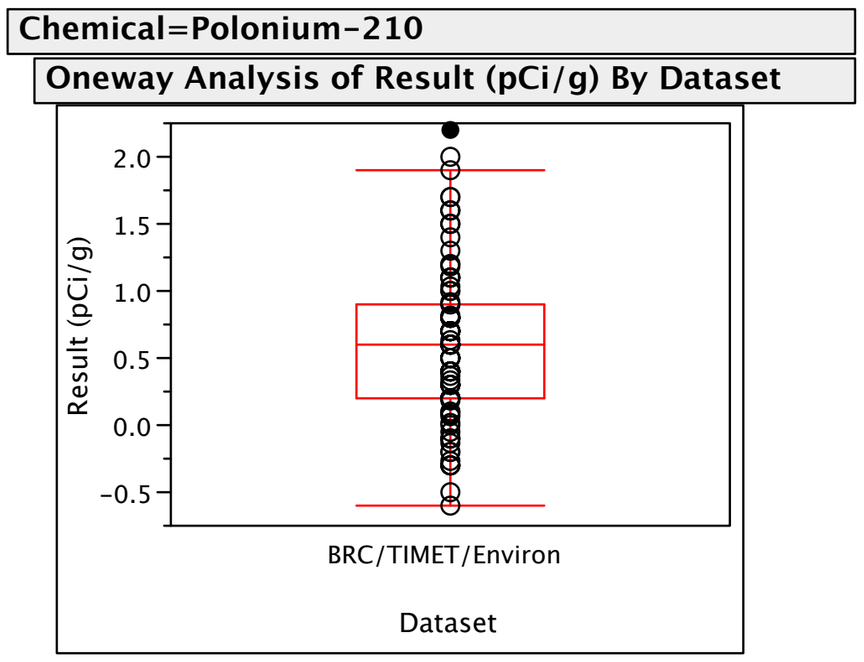
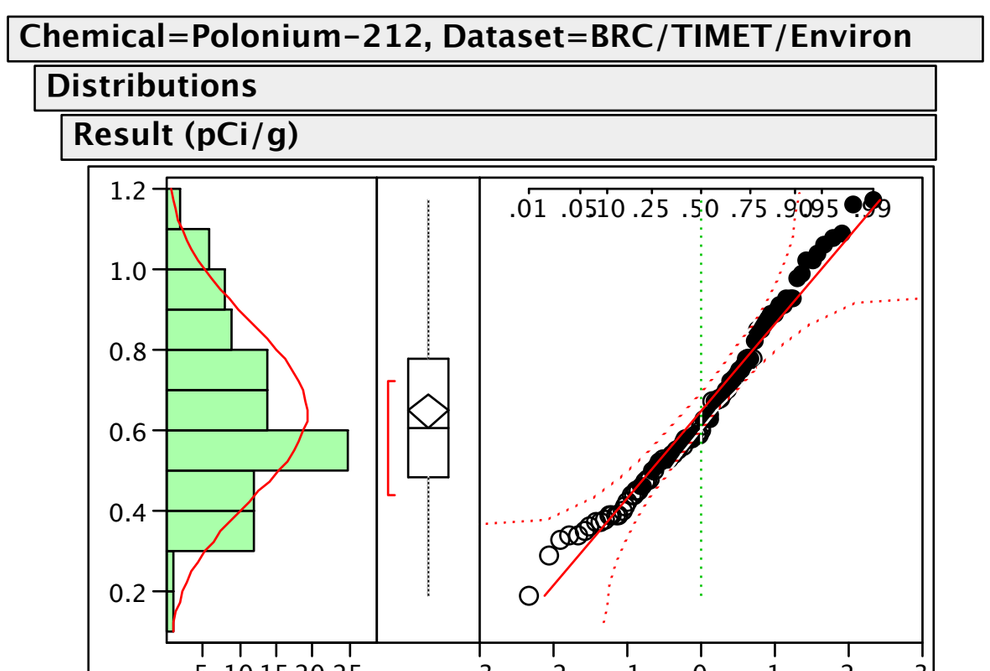


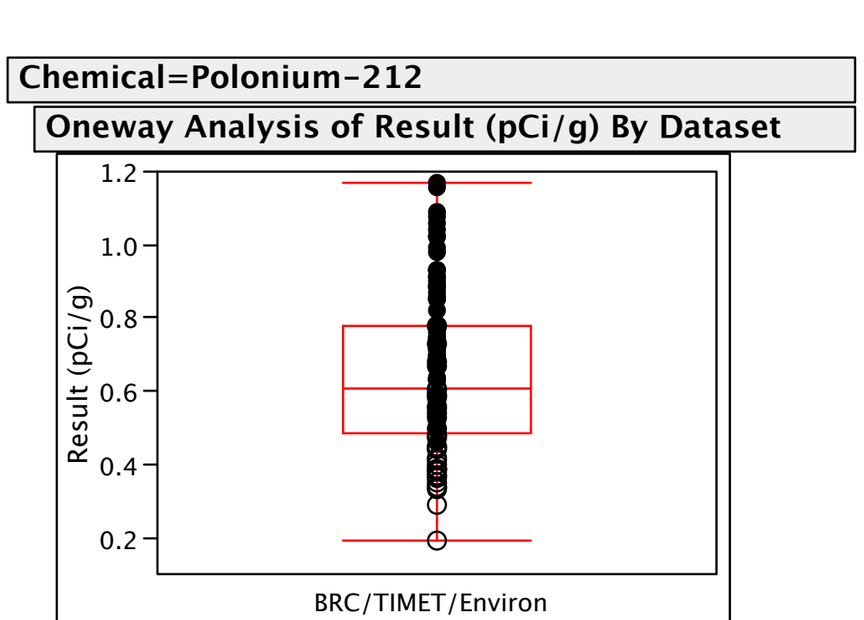
FIGURE G-2 (Continued)

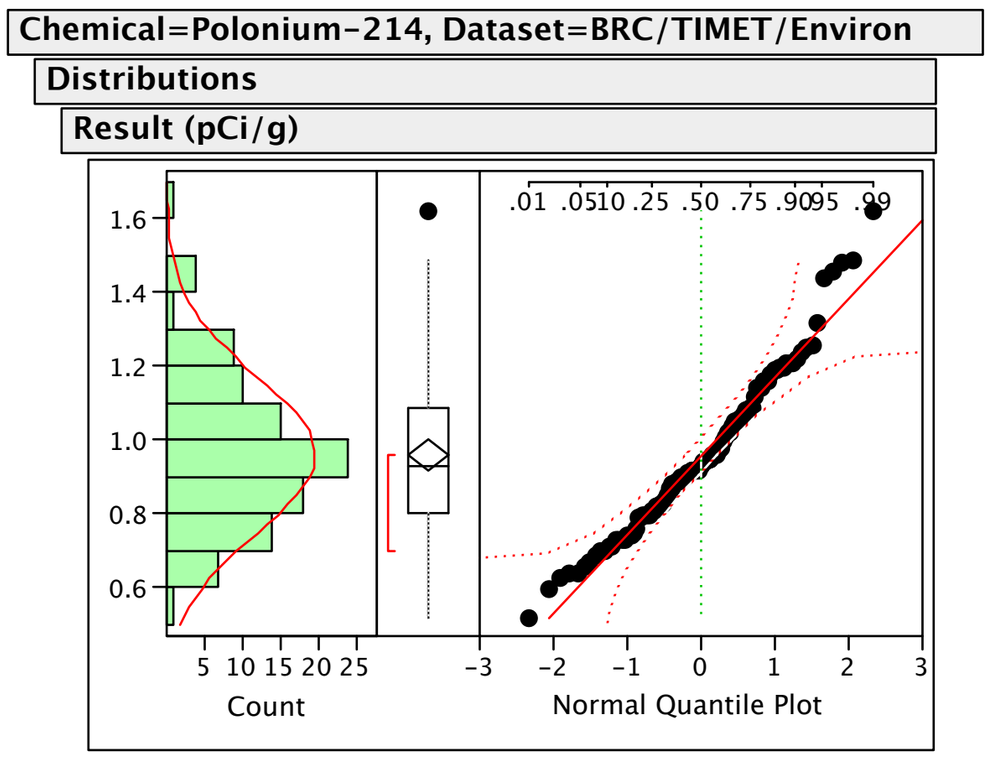
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











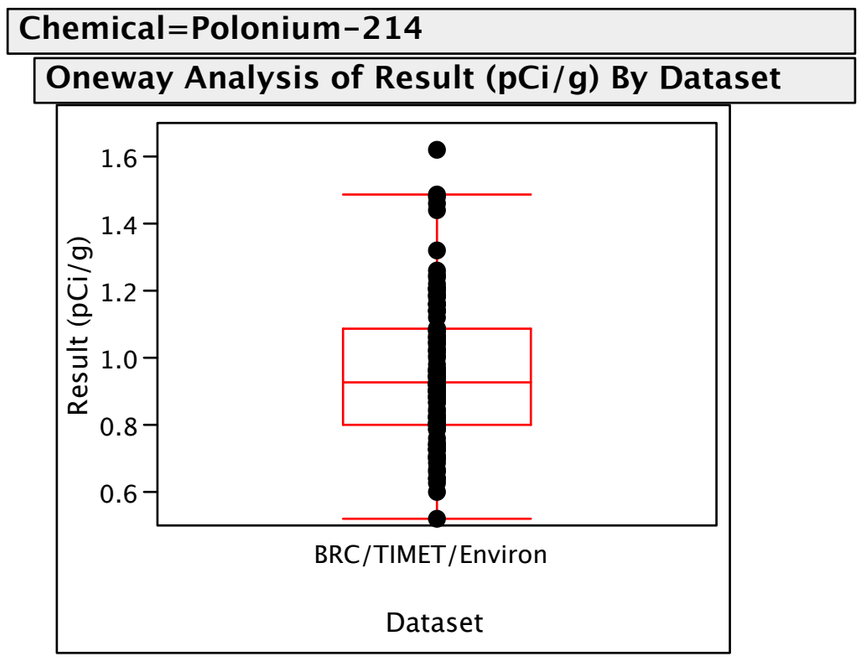


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

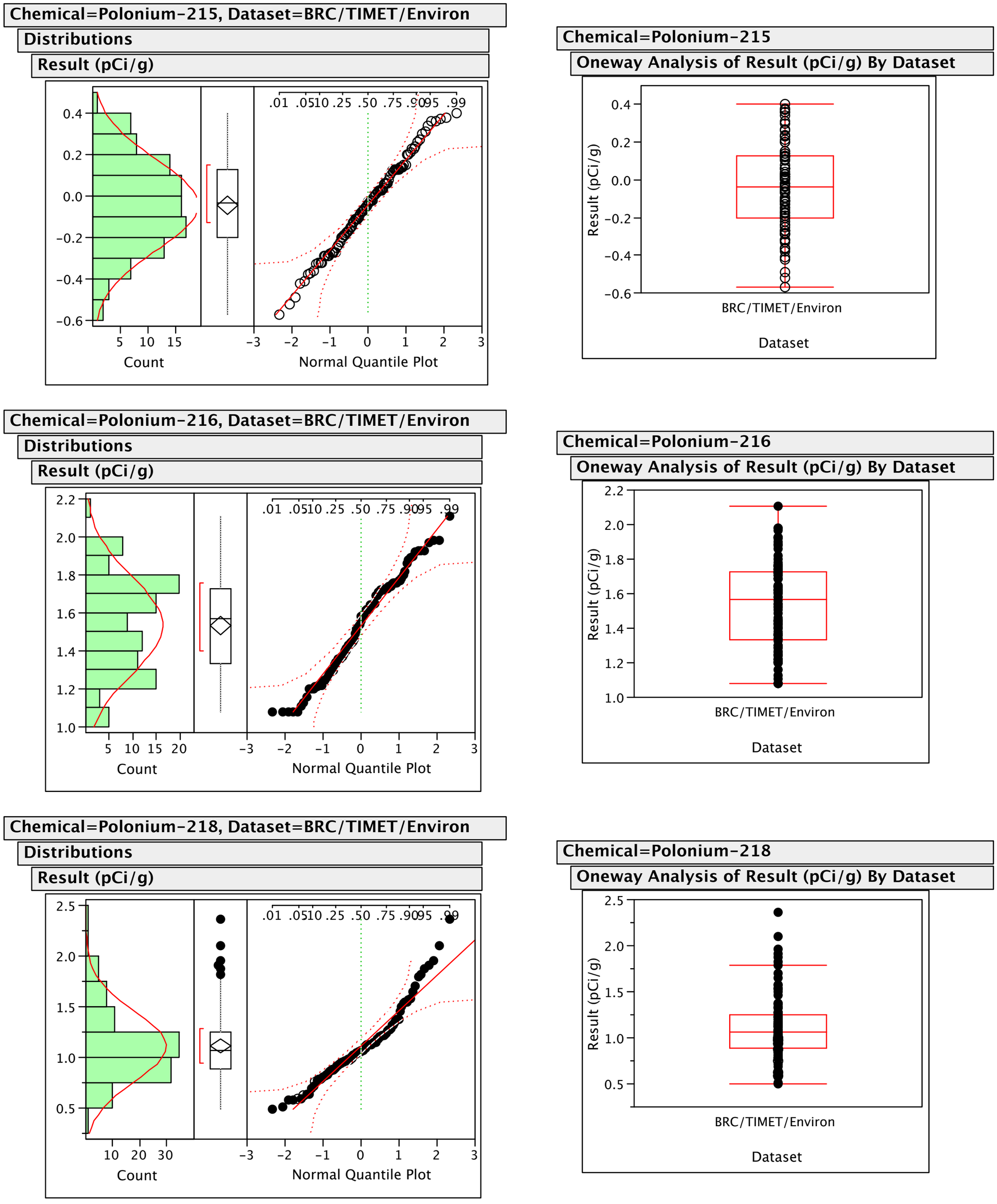
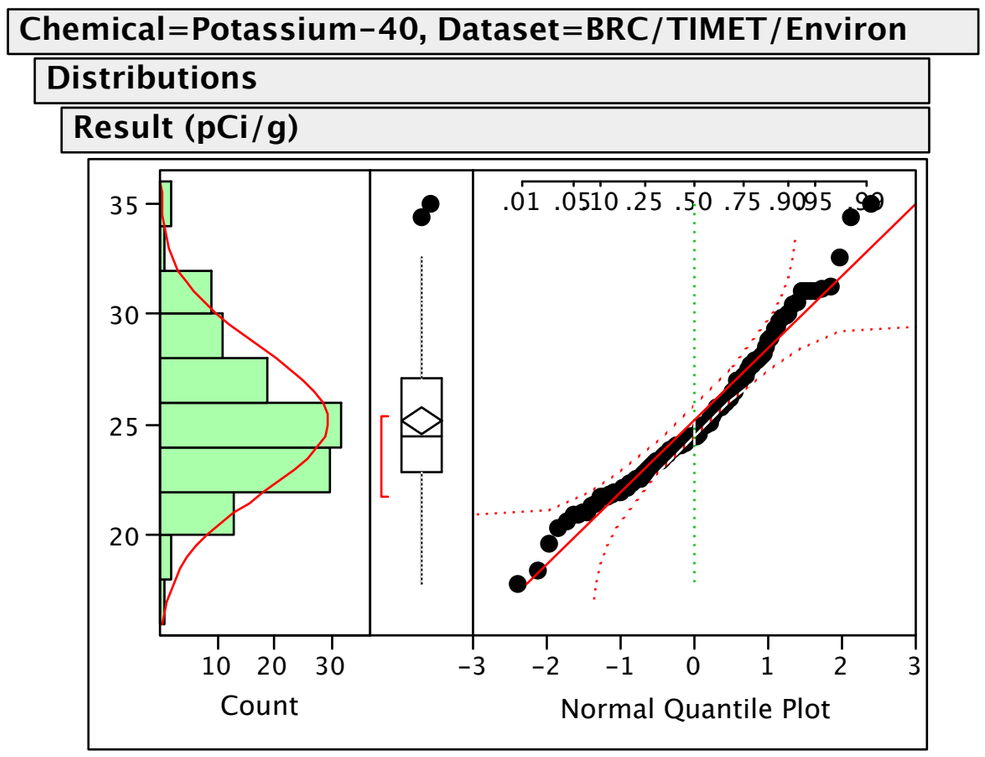
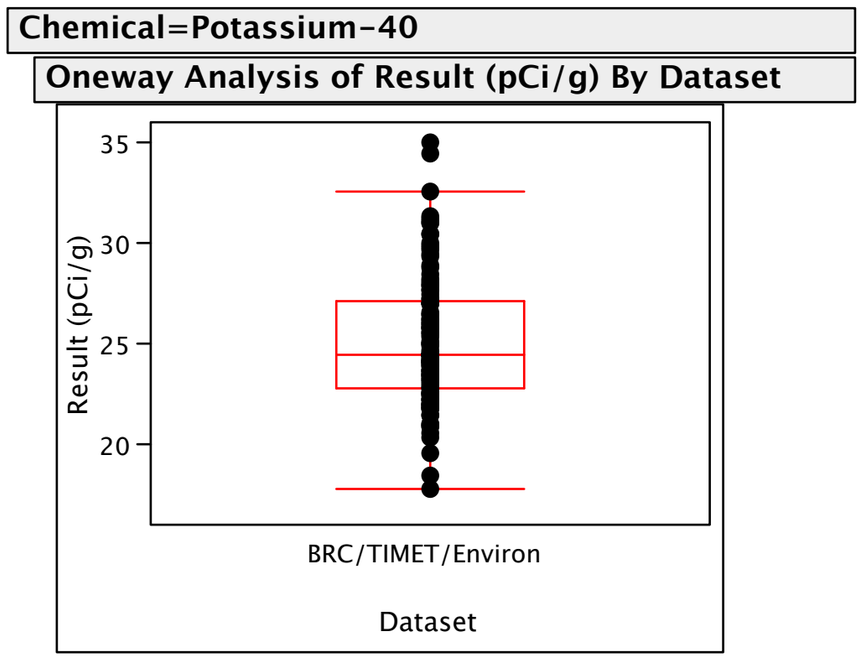
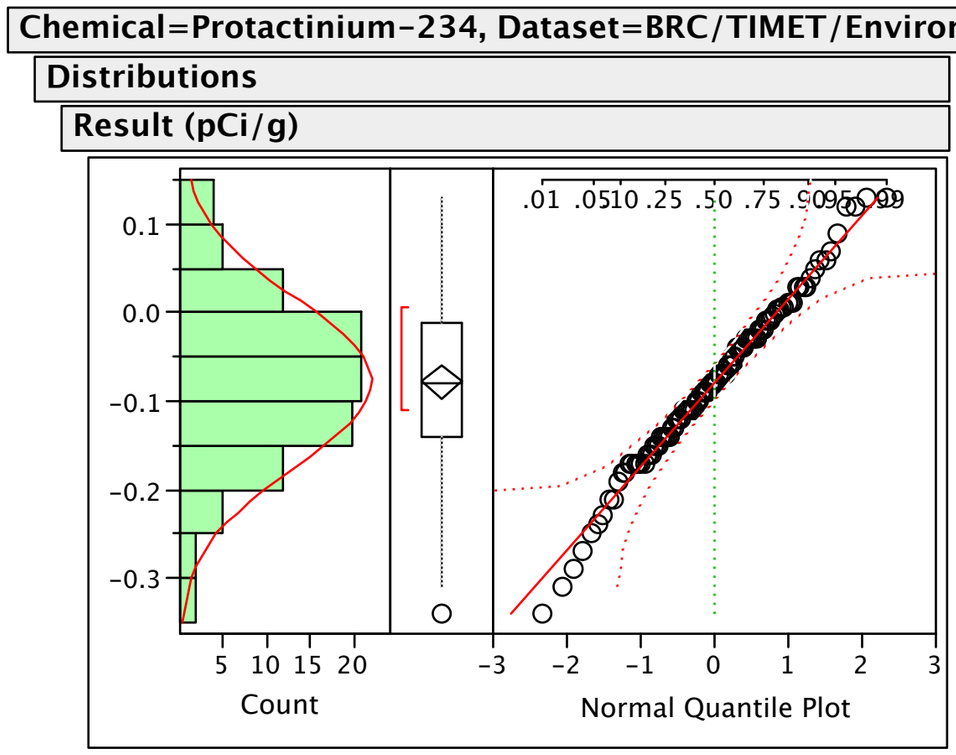


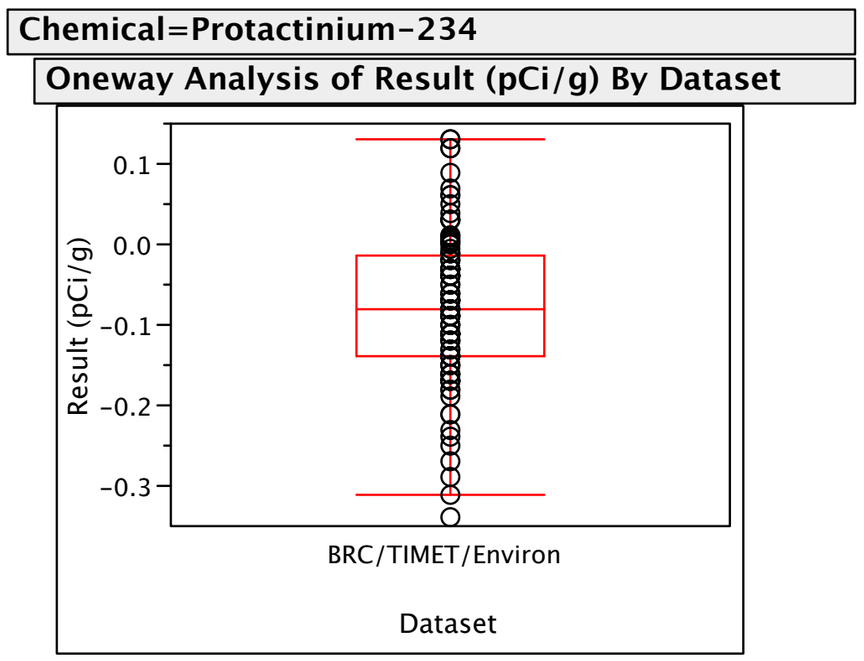
FIGURE G-2 (Continued)

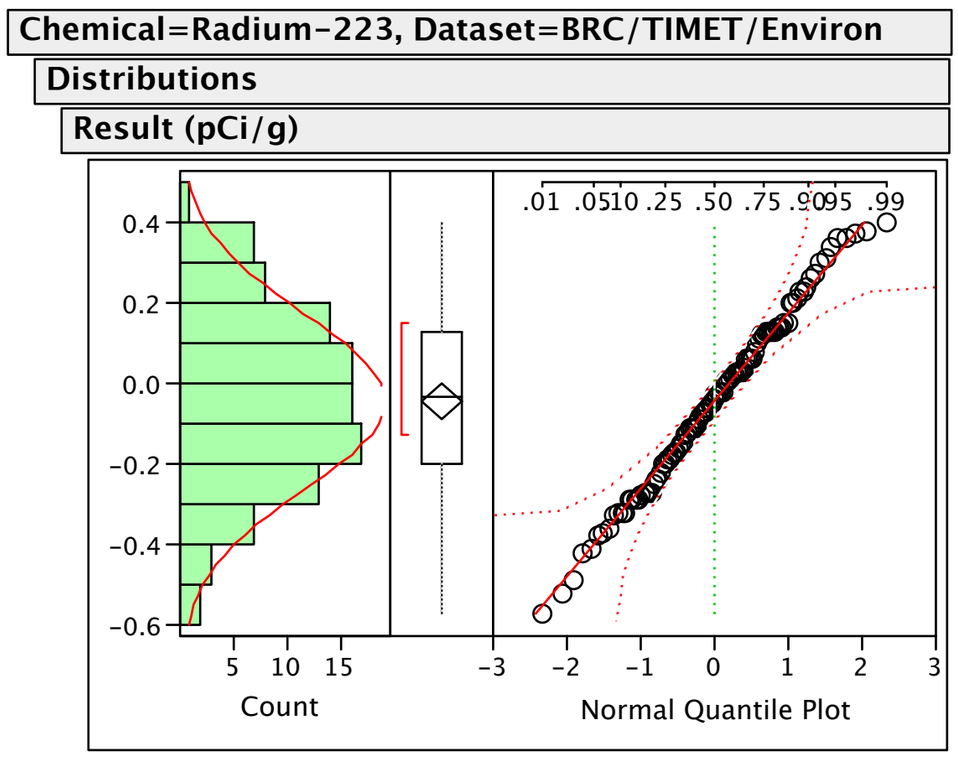
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











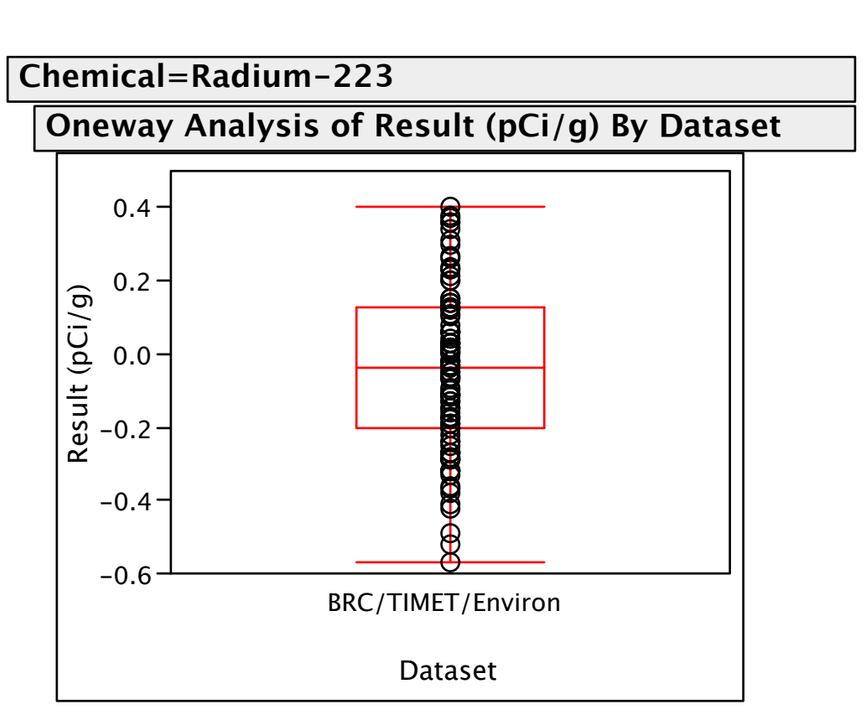
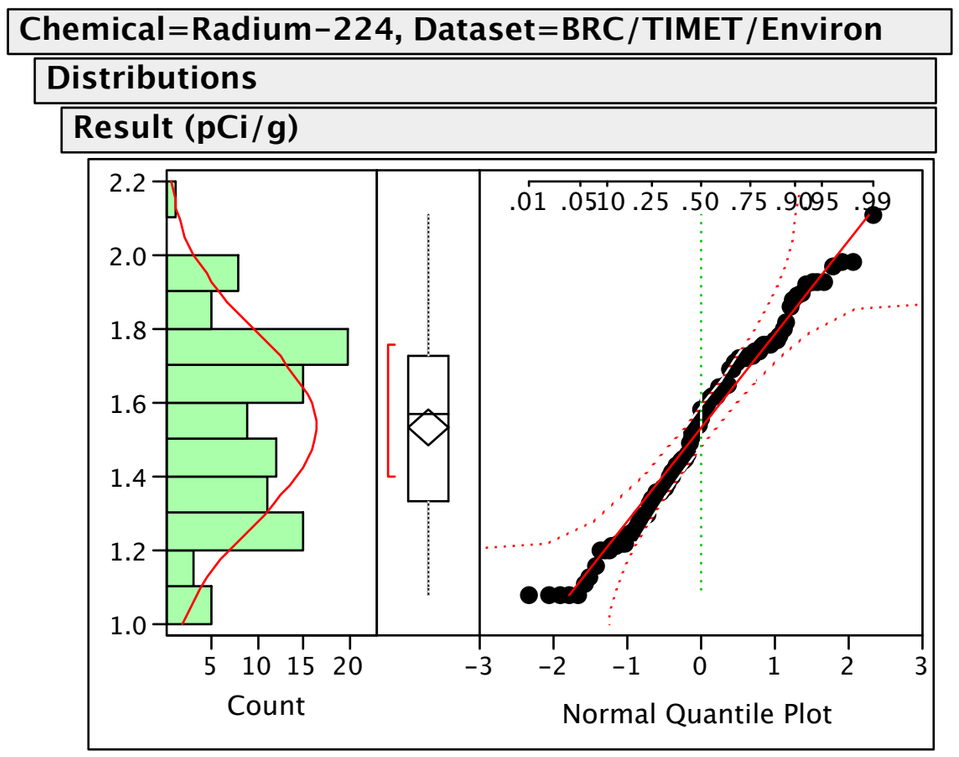
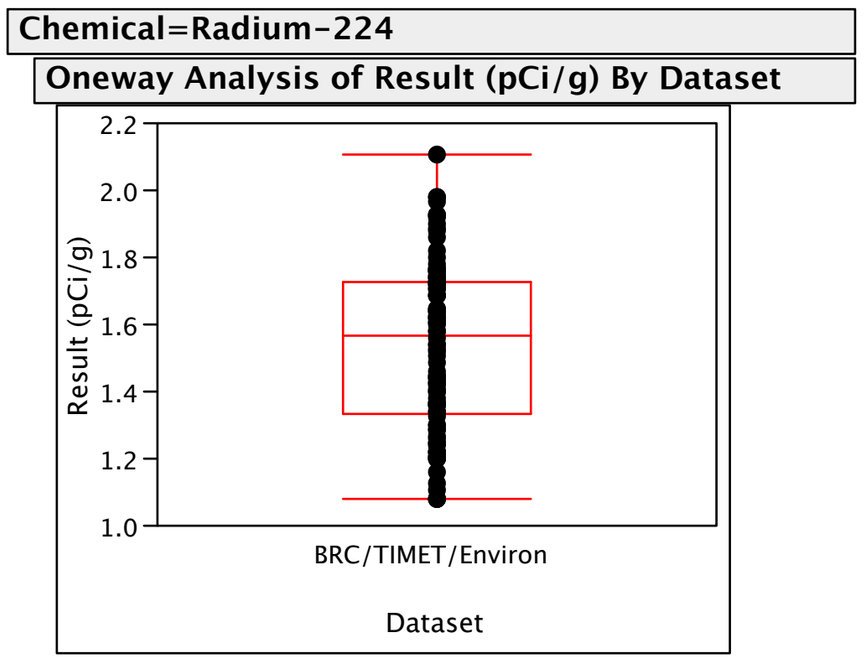
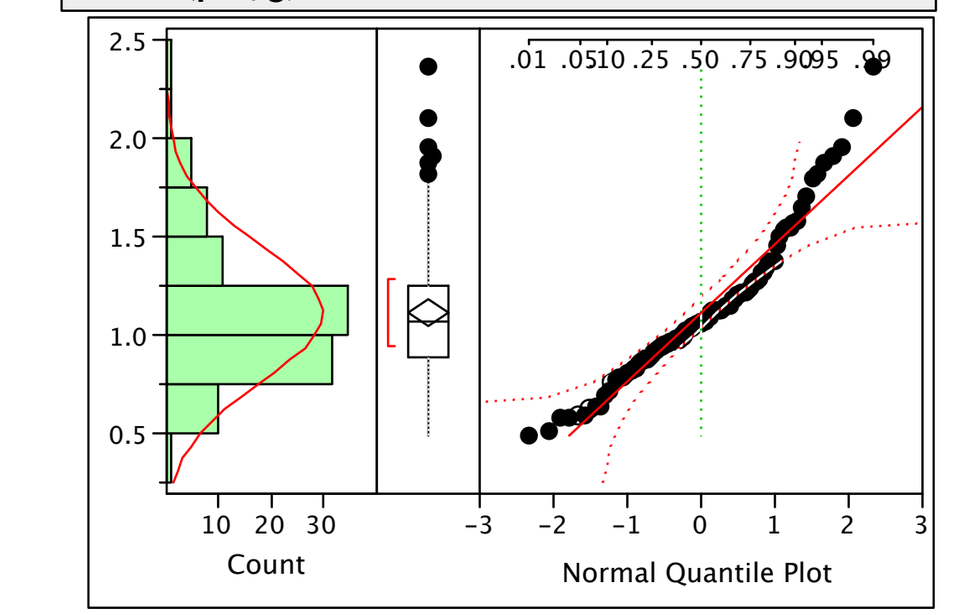


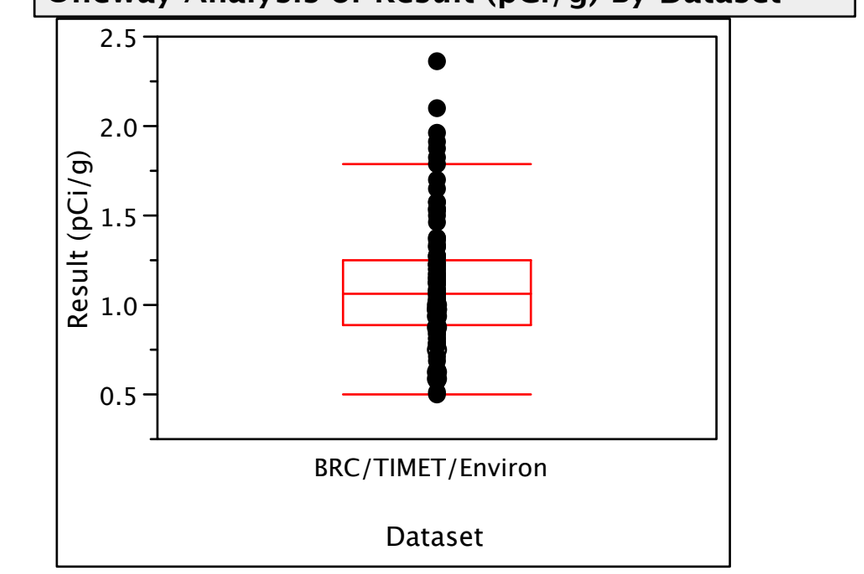
FIGURE G-2 (Continued)

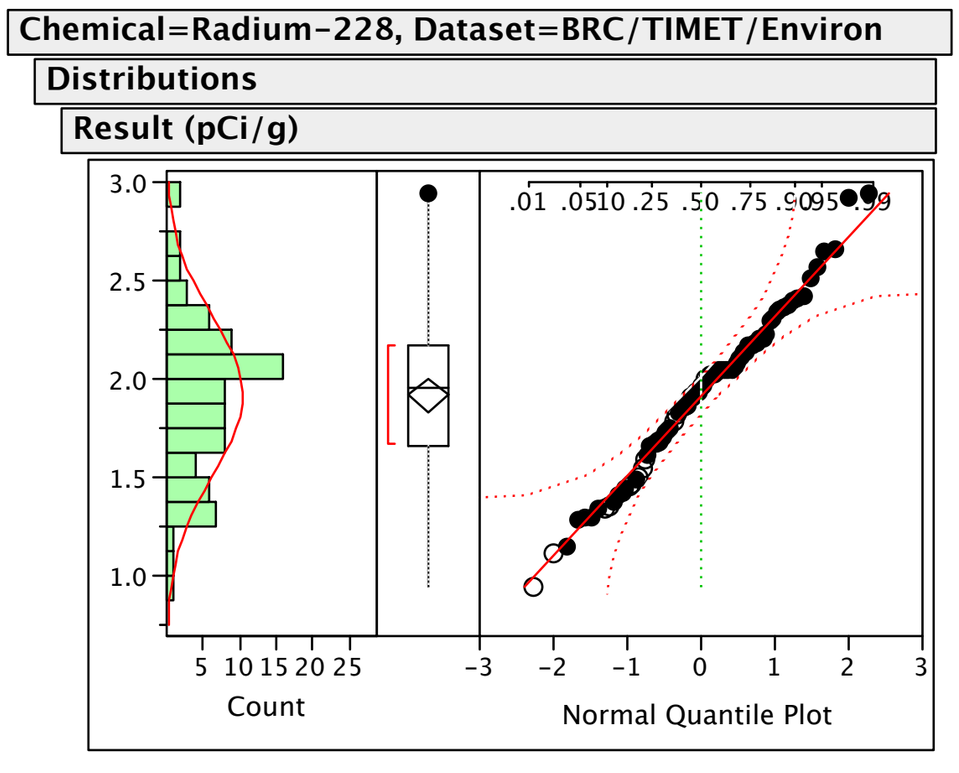
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











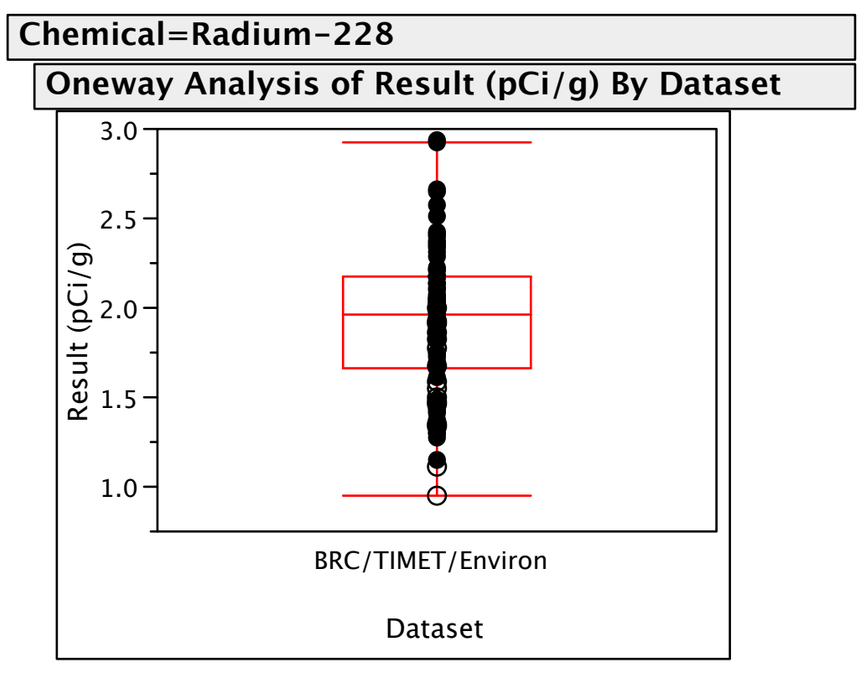


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

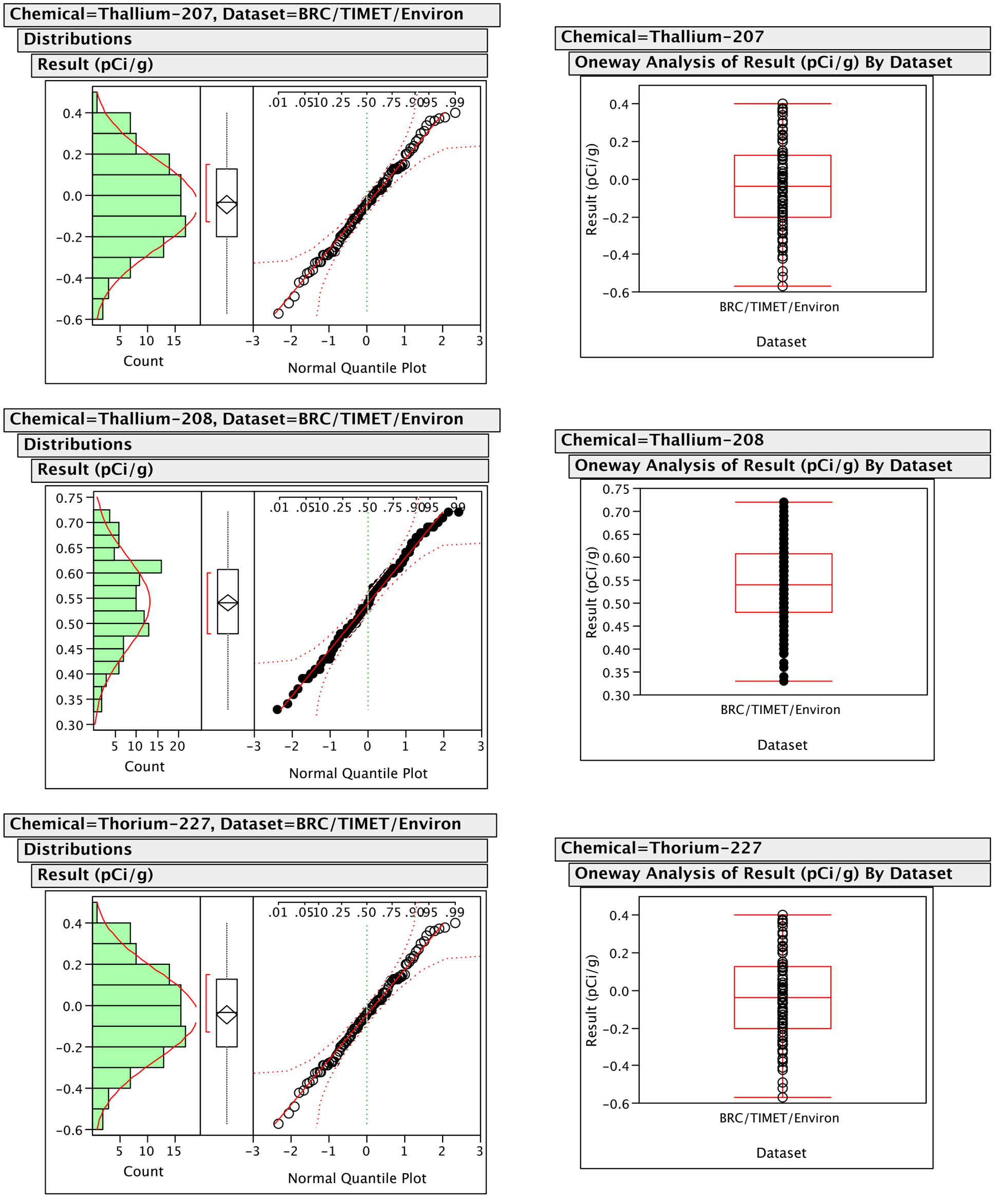
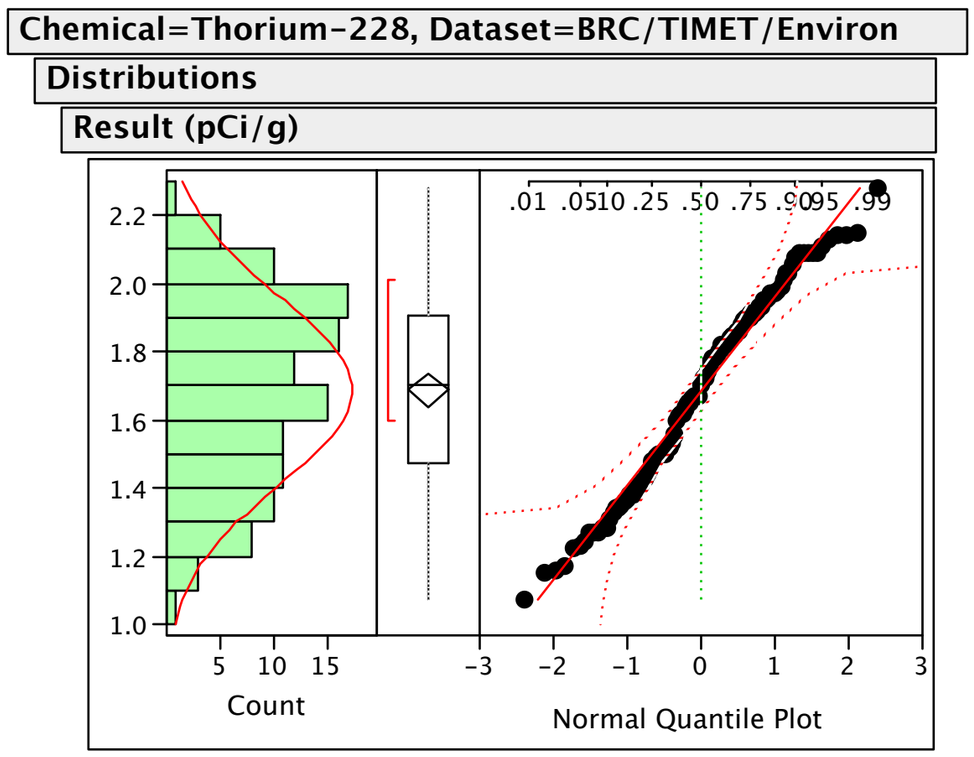
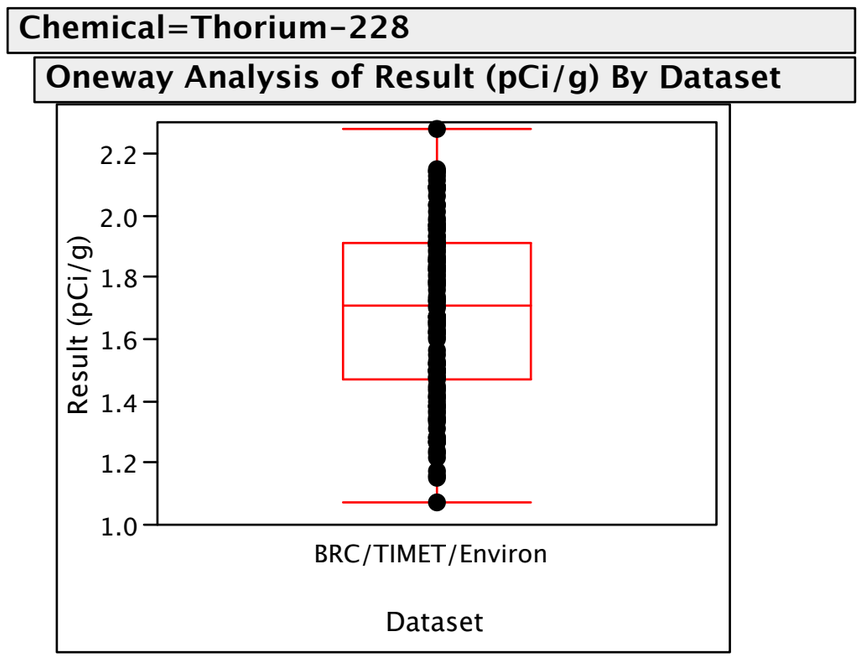
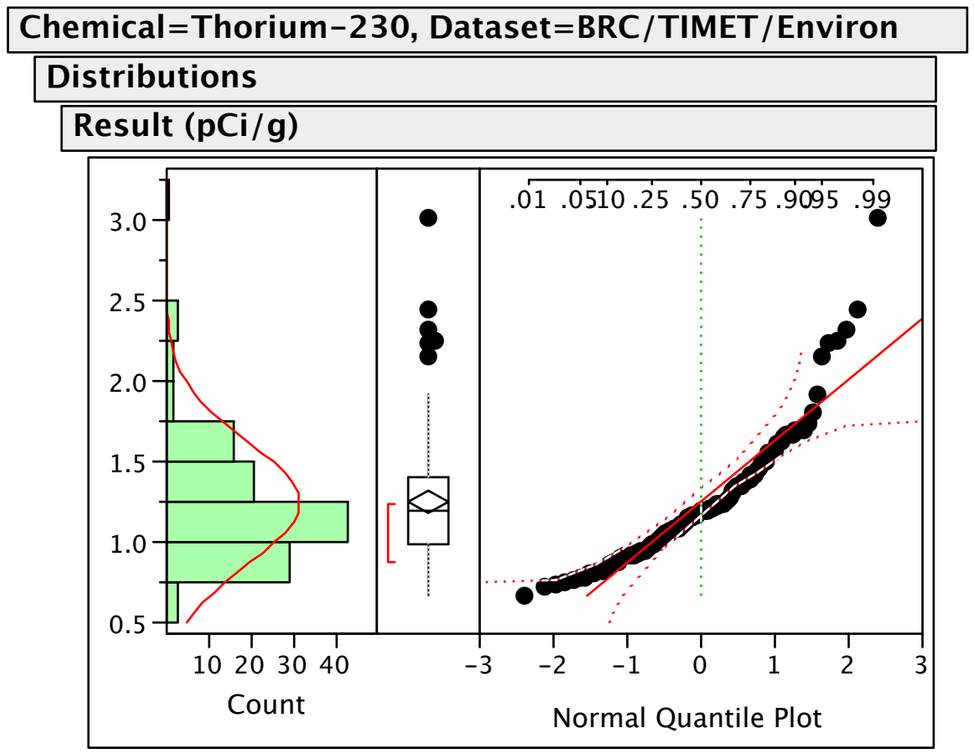


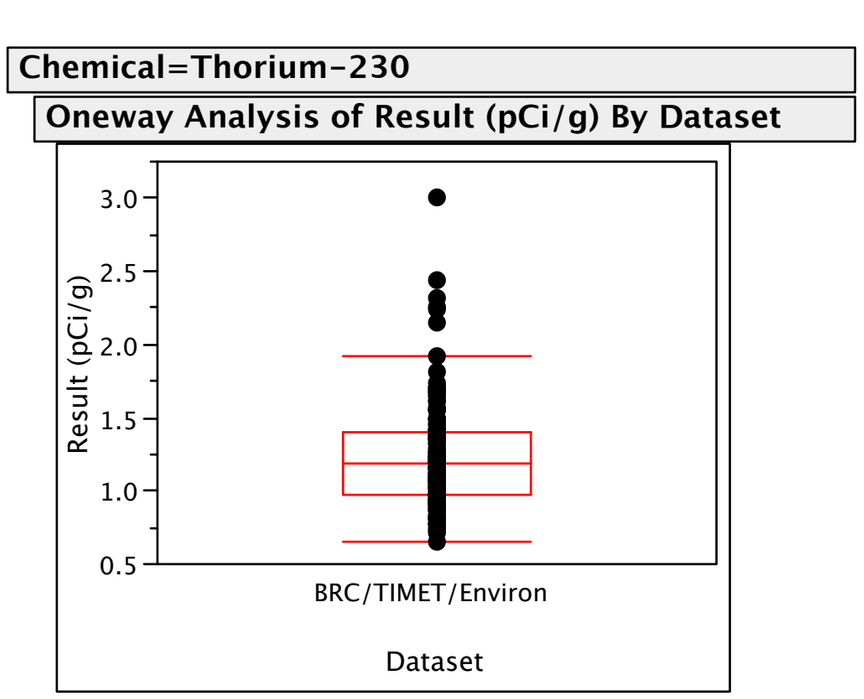
FIGURE G-2 (Continued)

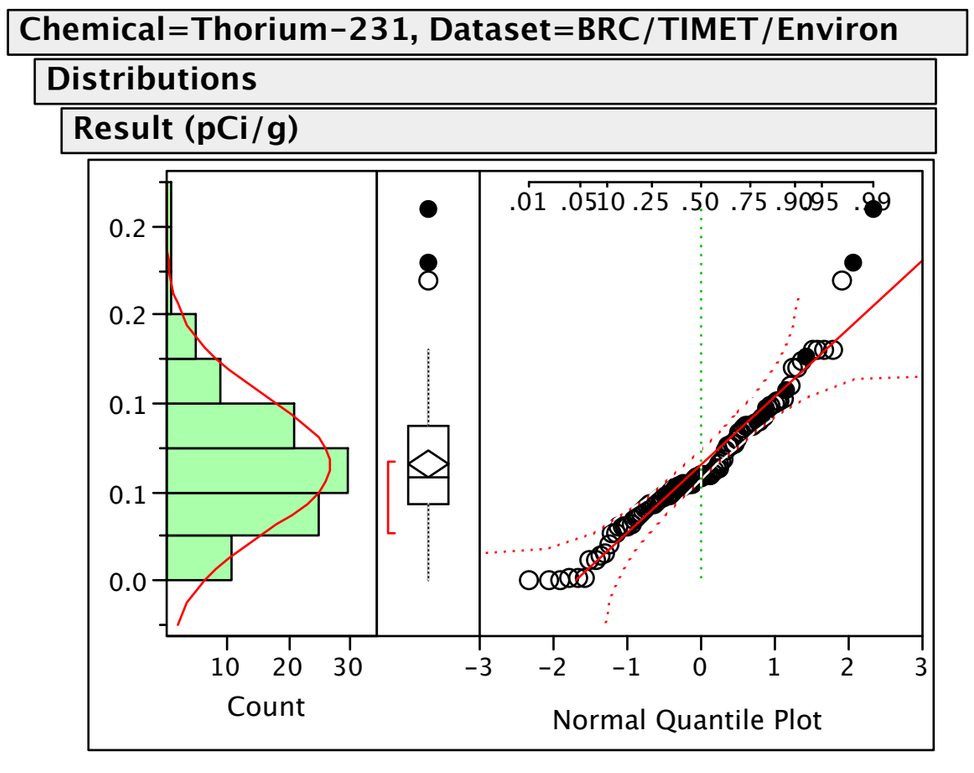
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











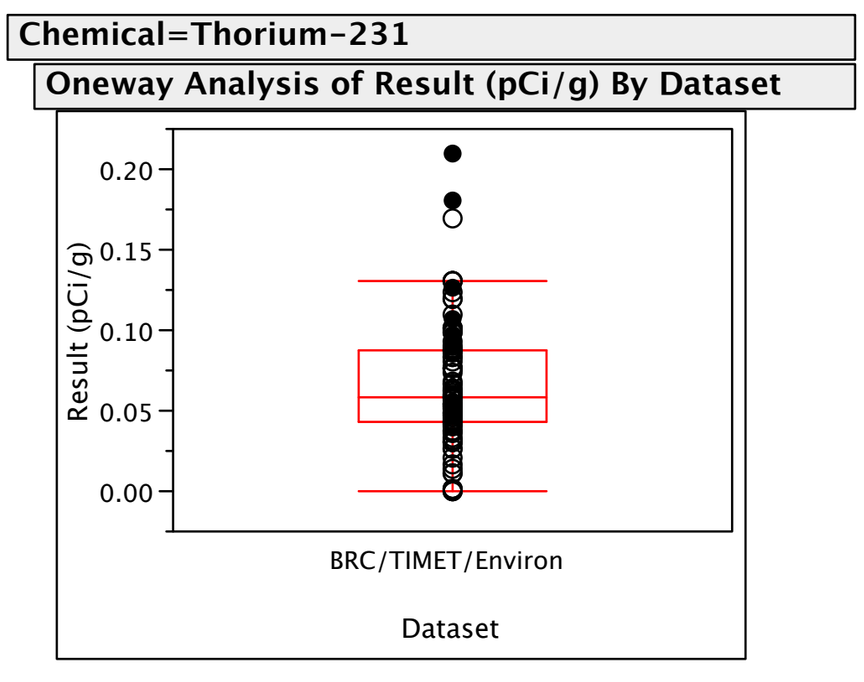
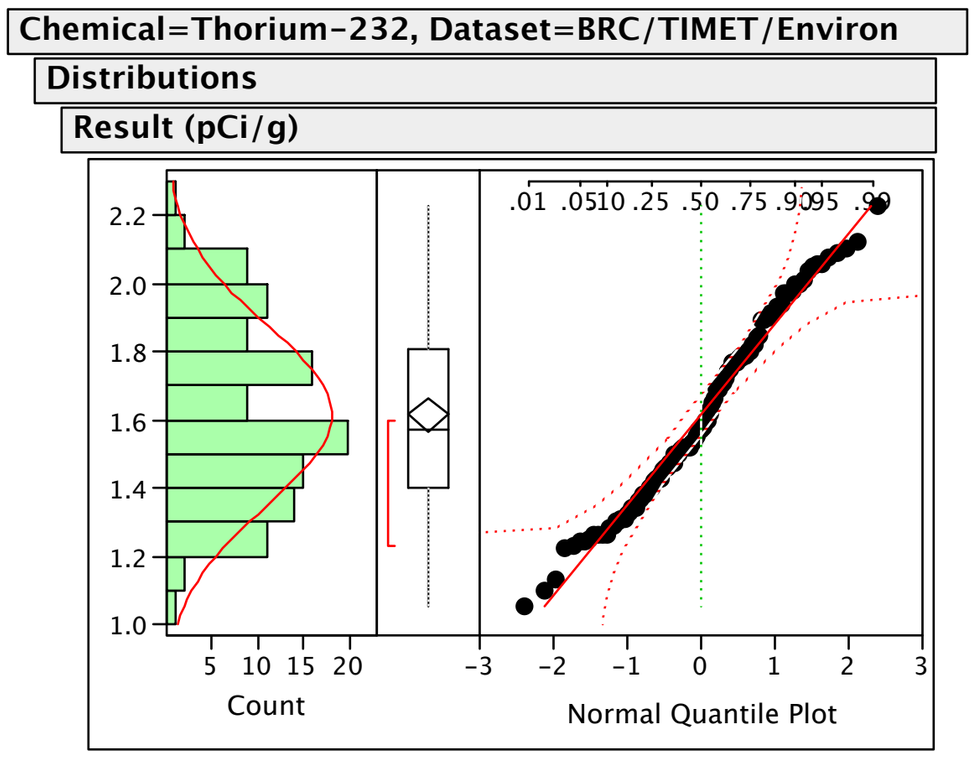
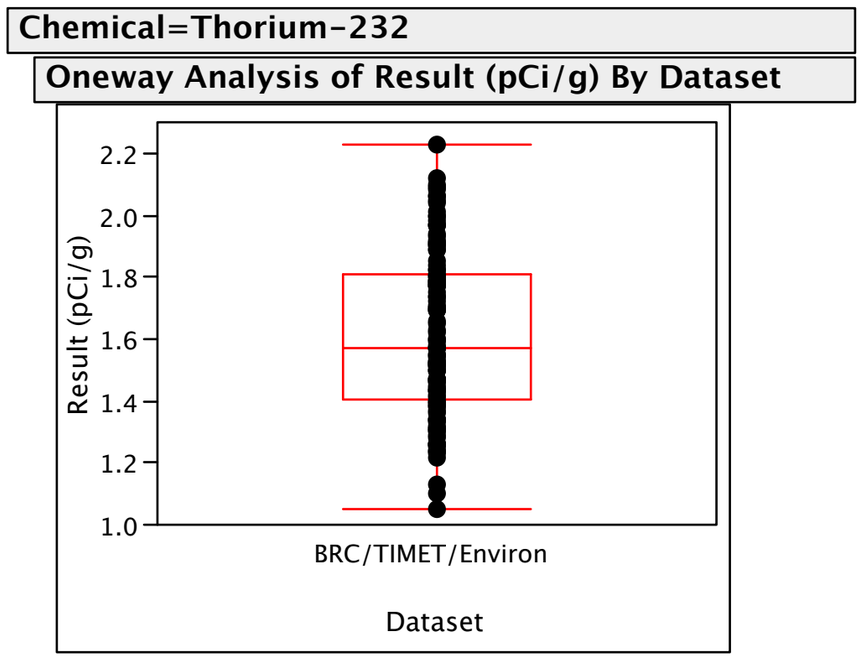
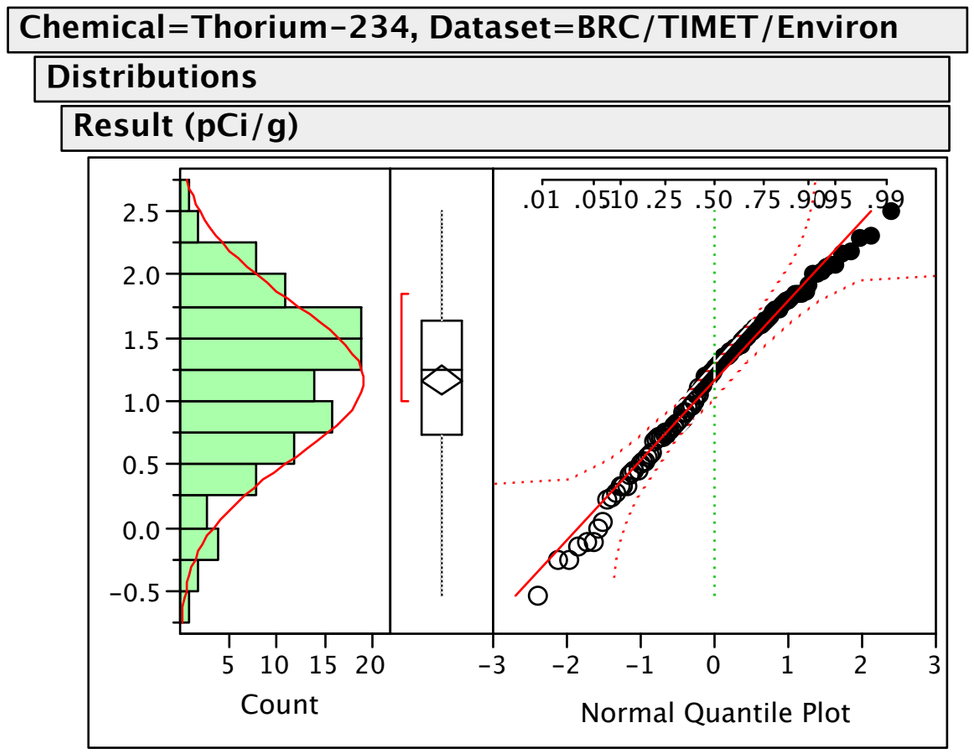


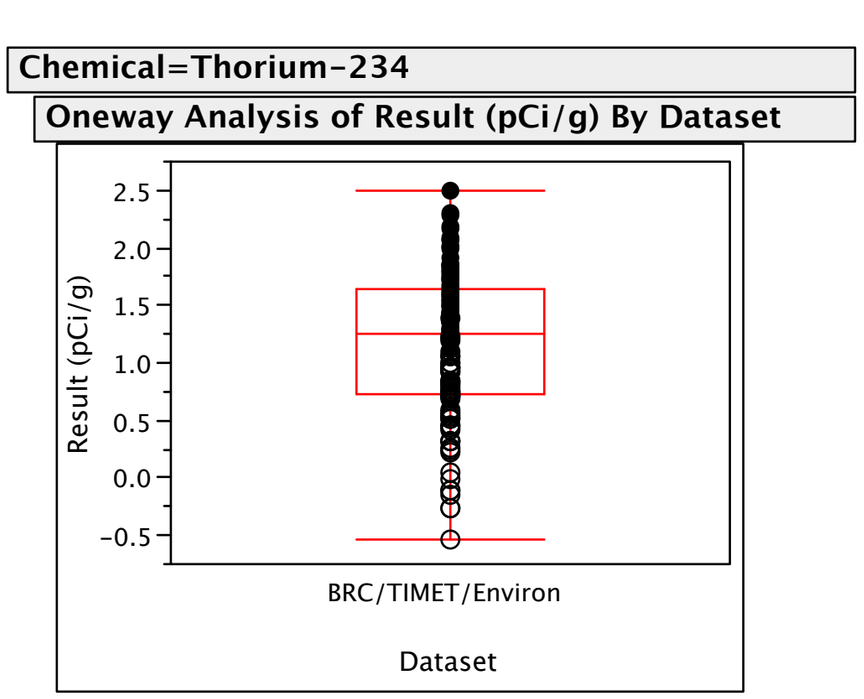
FIGURE G-2 (Continued)

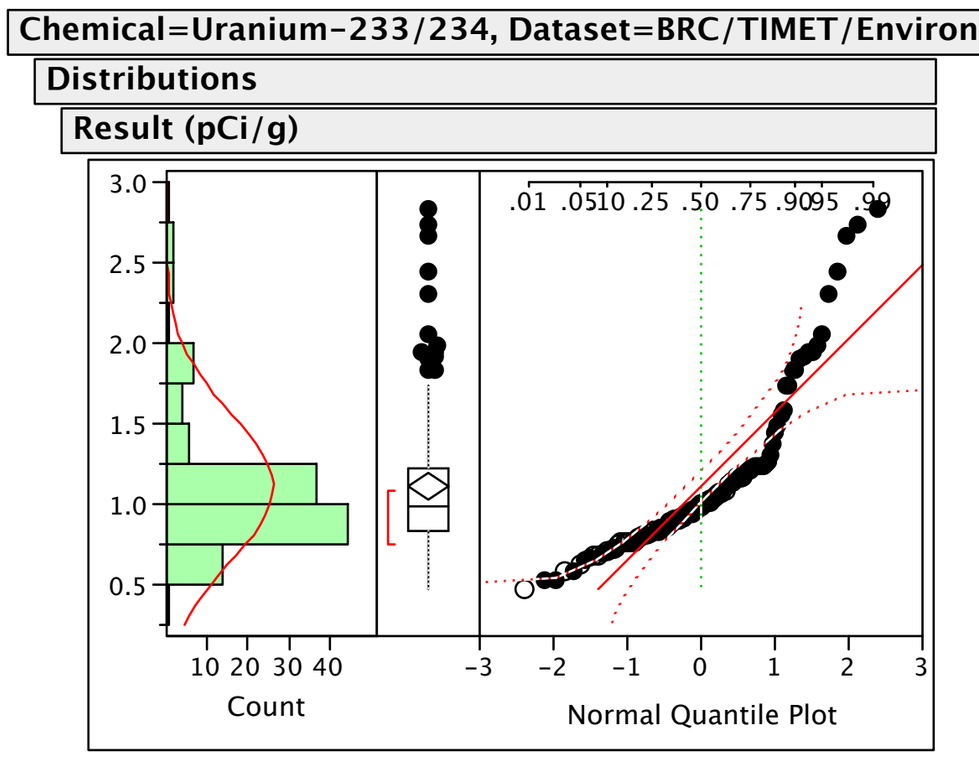
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











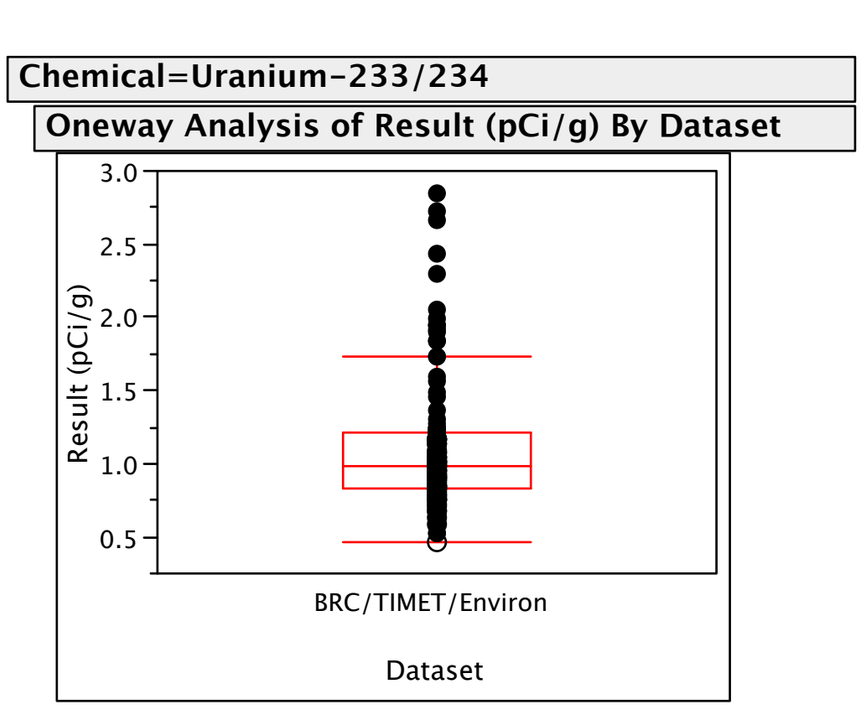
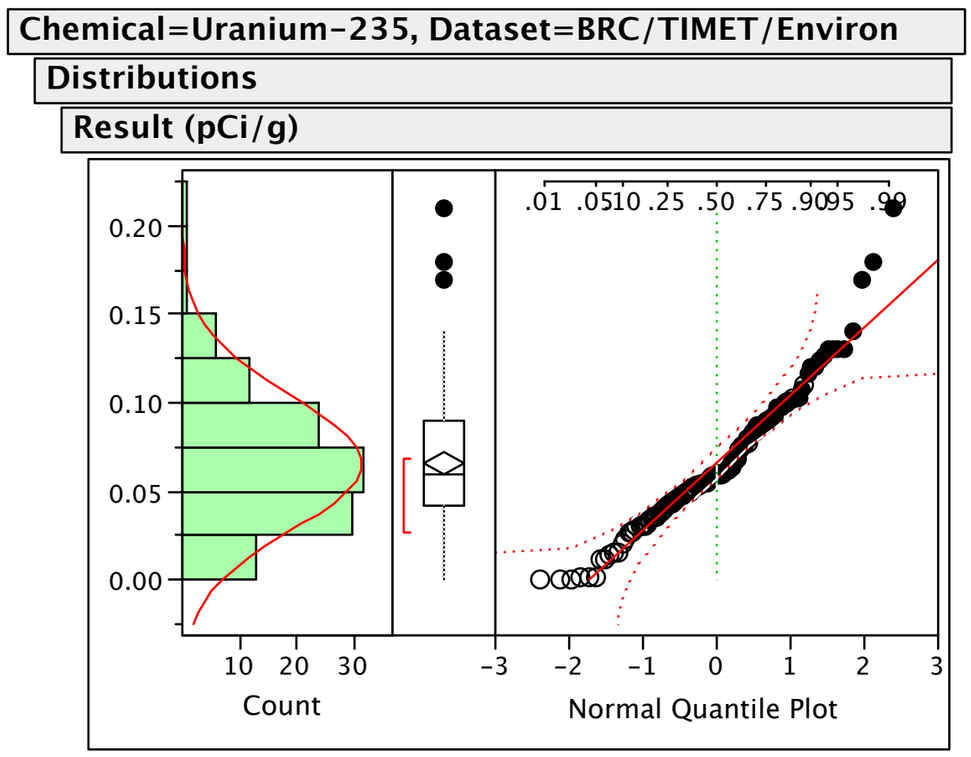
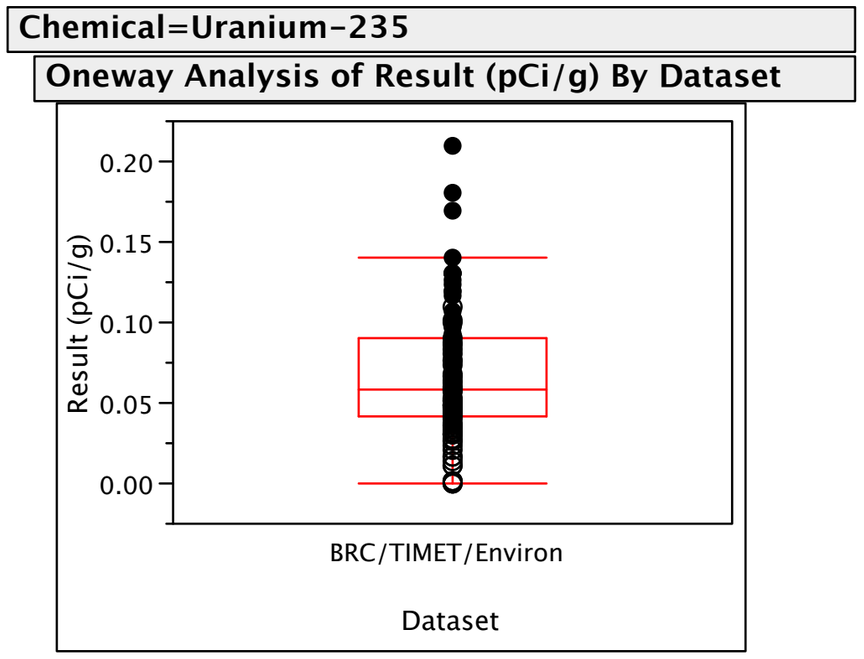
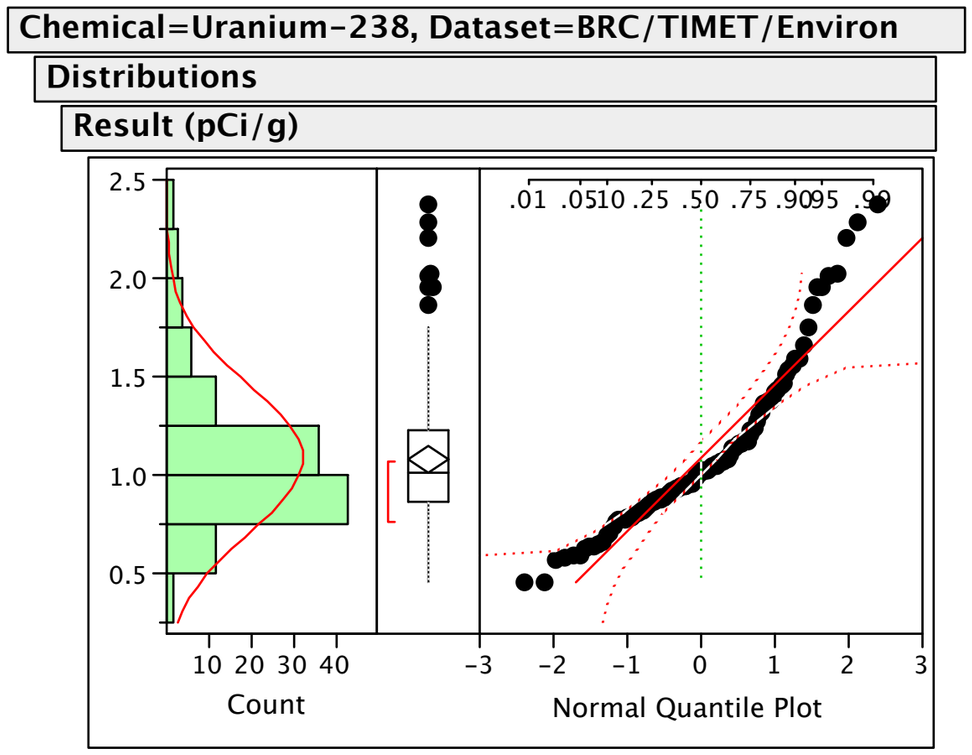


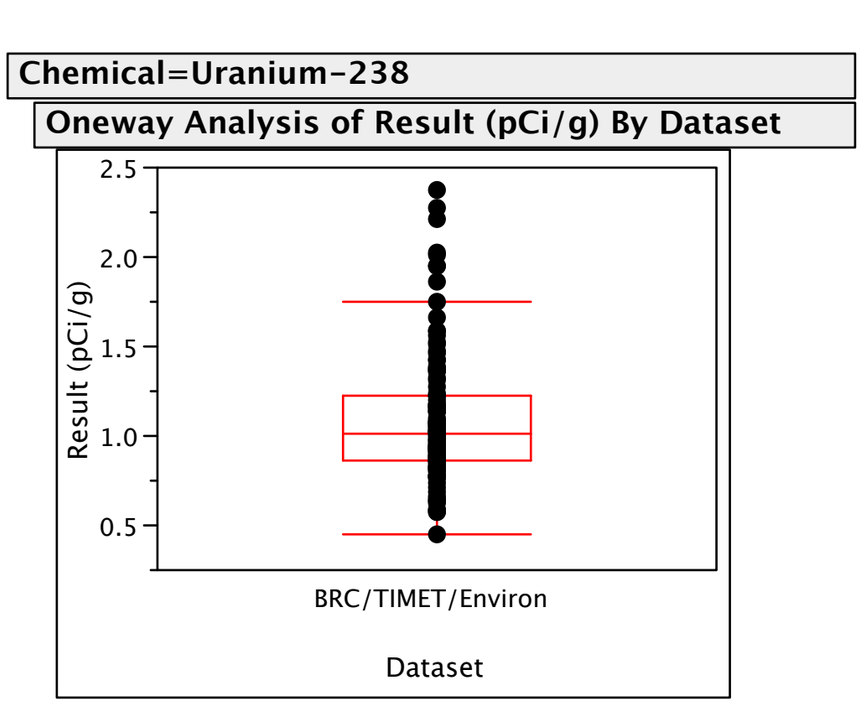
FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL



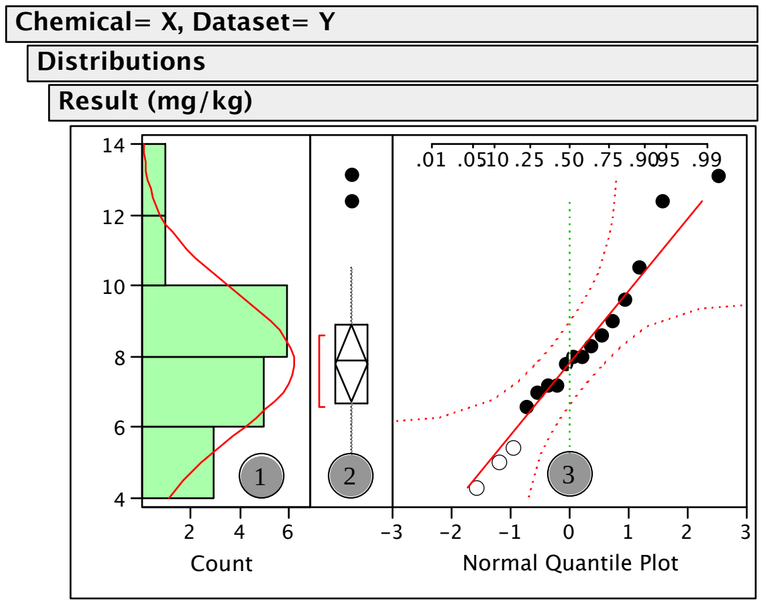


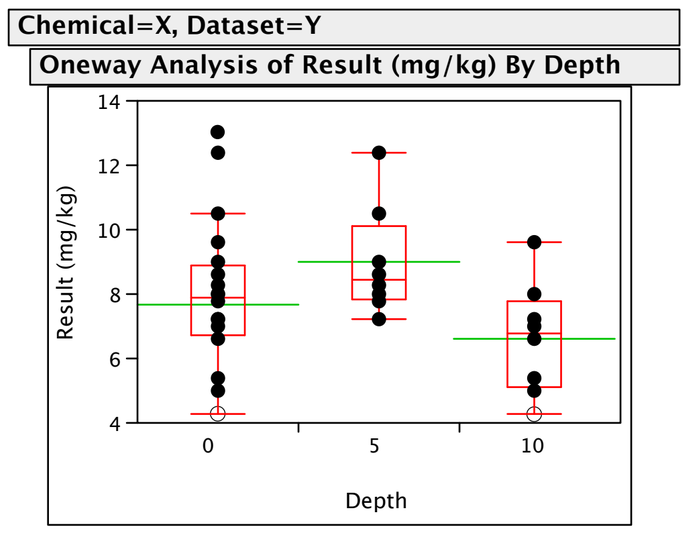




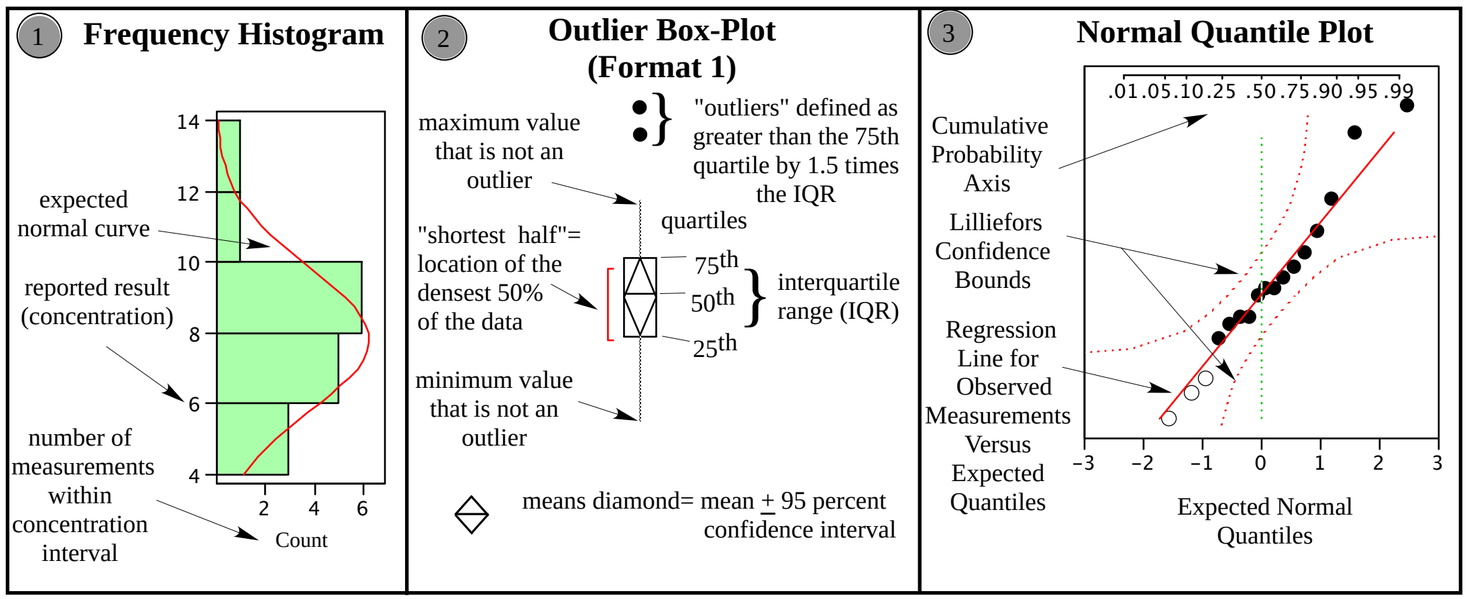
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-3

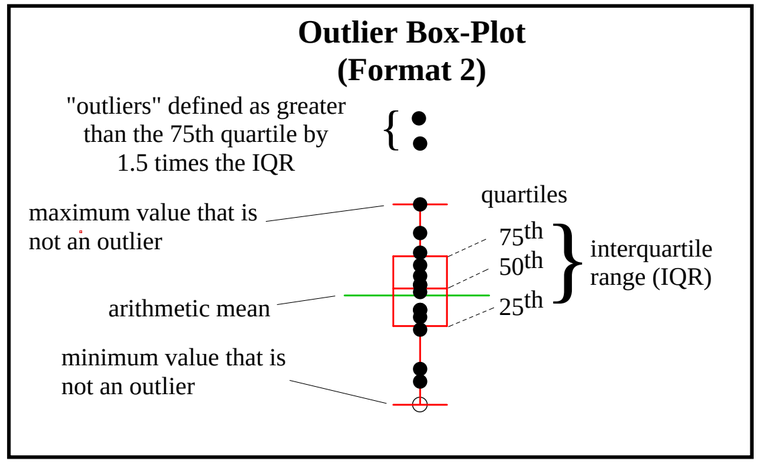
Example Figures From Appendix

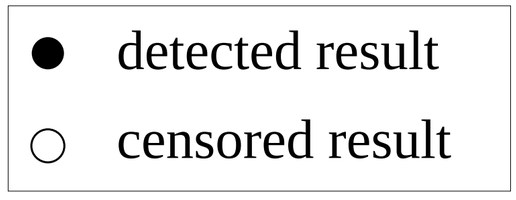


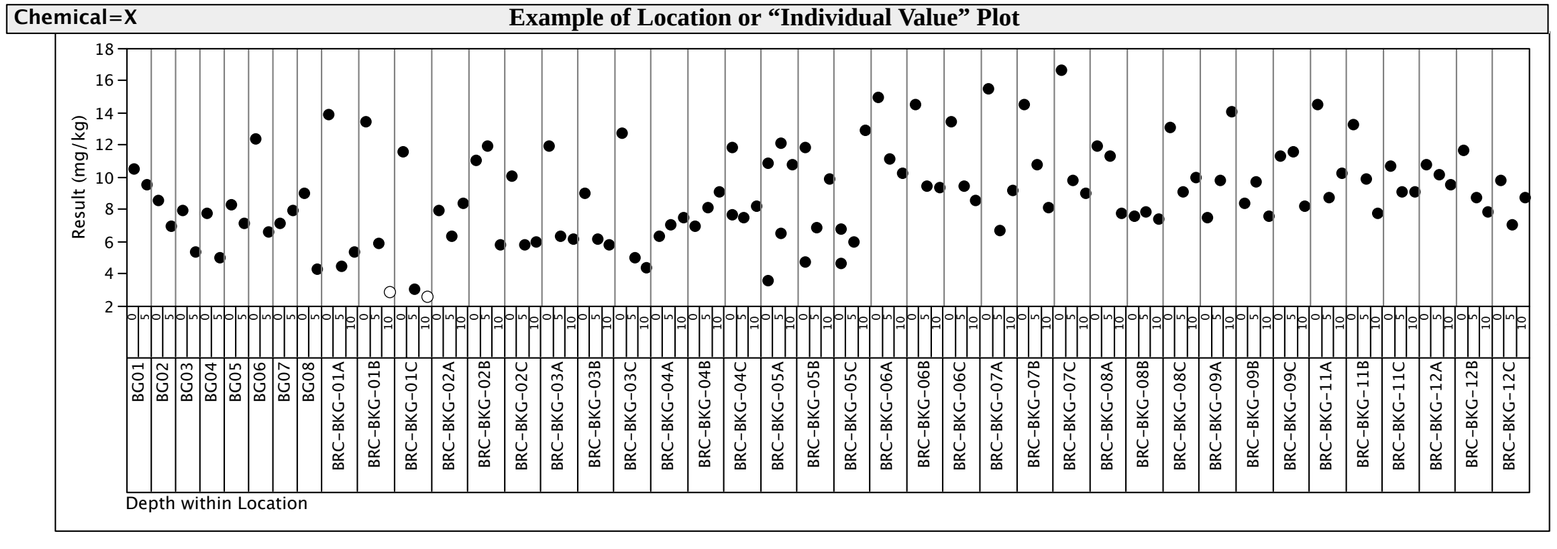


Keys to Individual Figure Panels





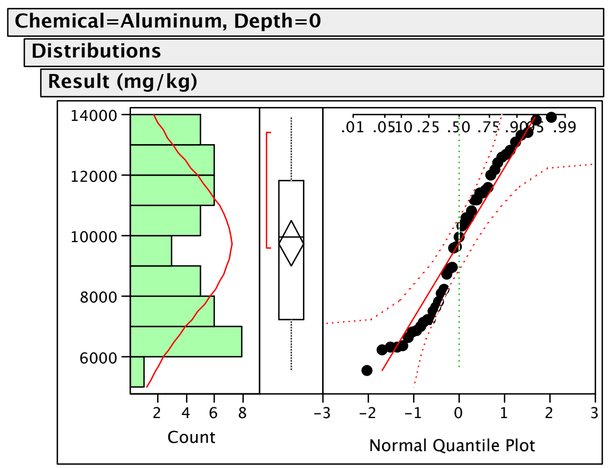


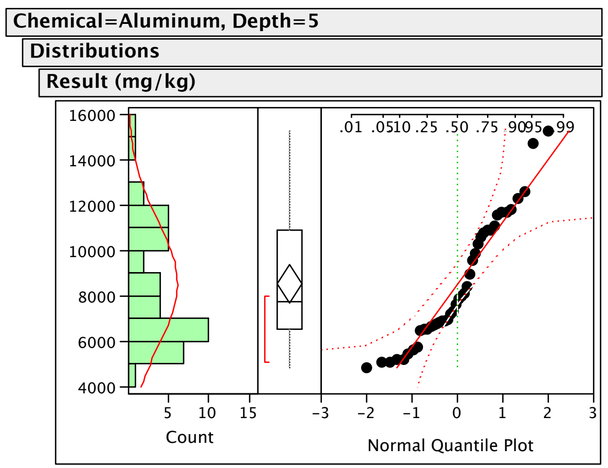


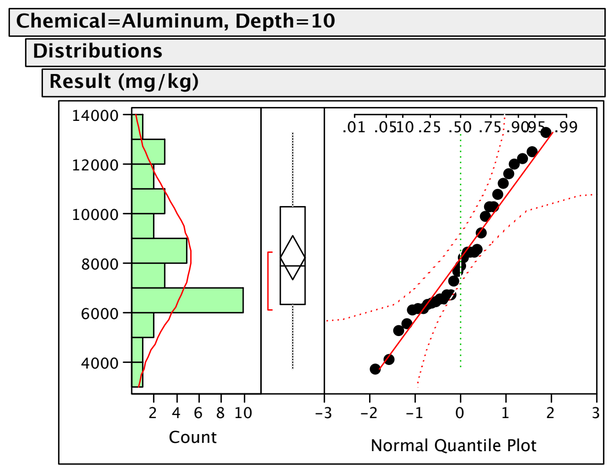
Results are Plottted for Individual Locations and Grouped by Soil Depth

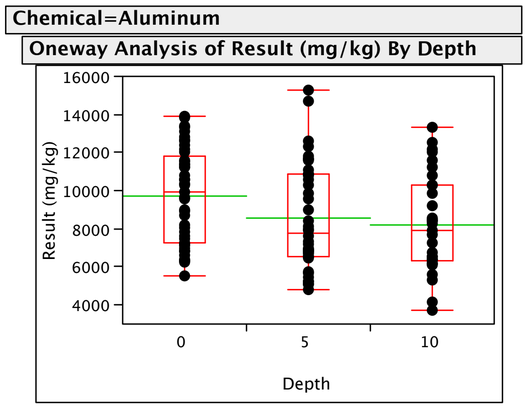
FIGURE G-3

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









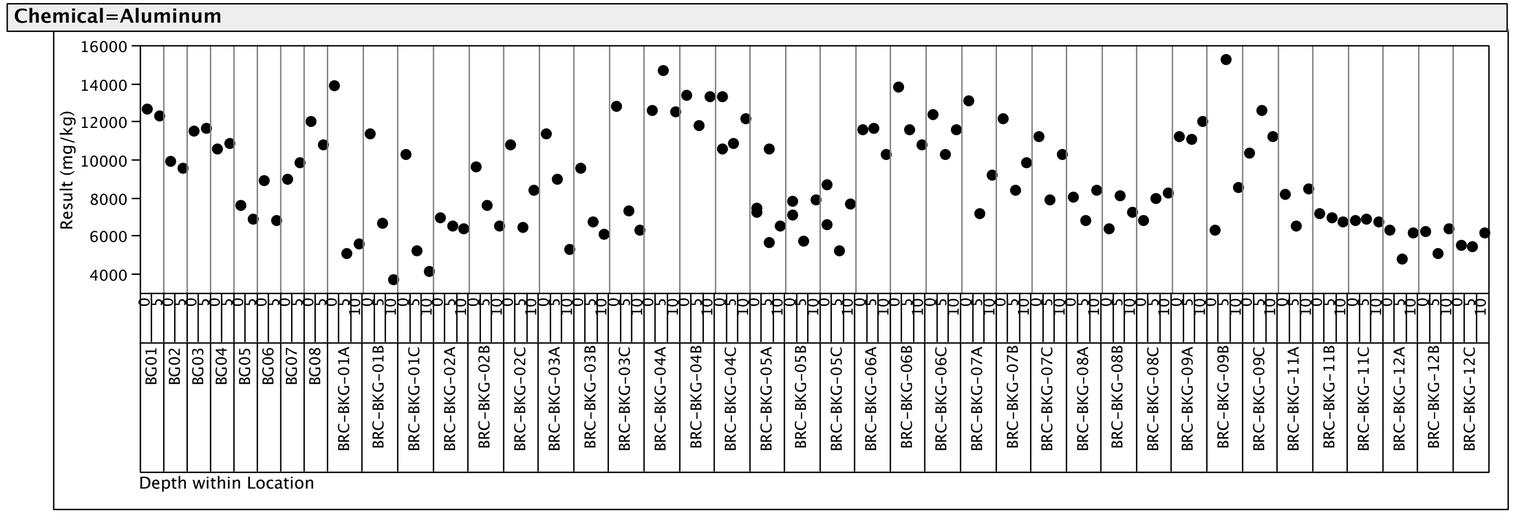
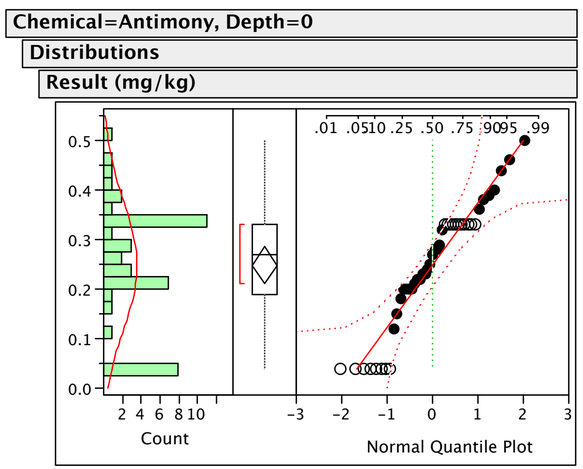
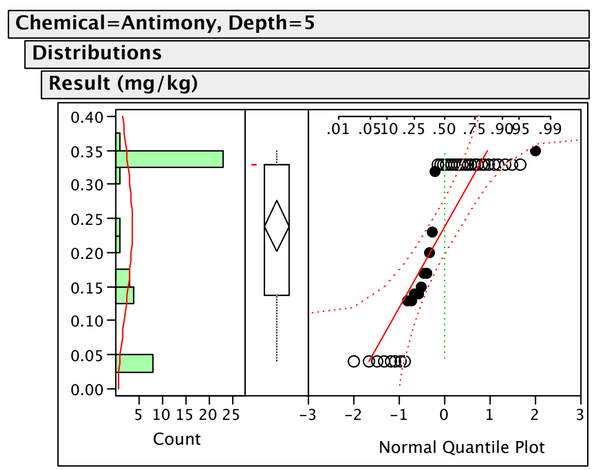
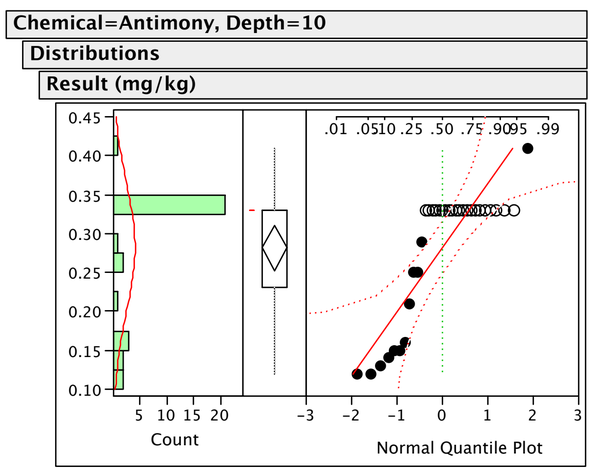


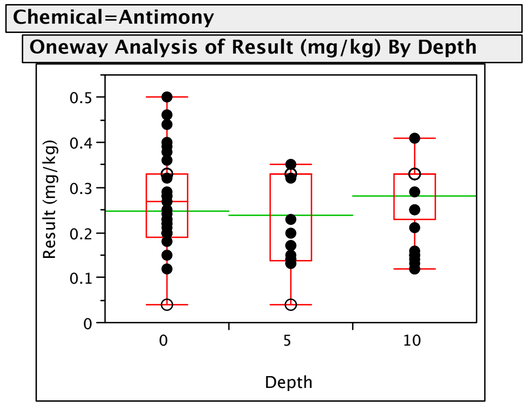
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









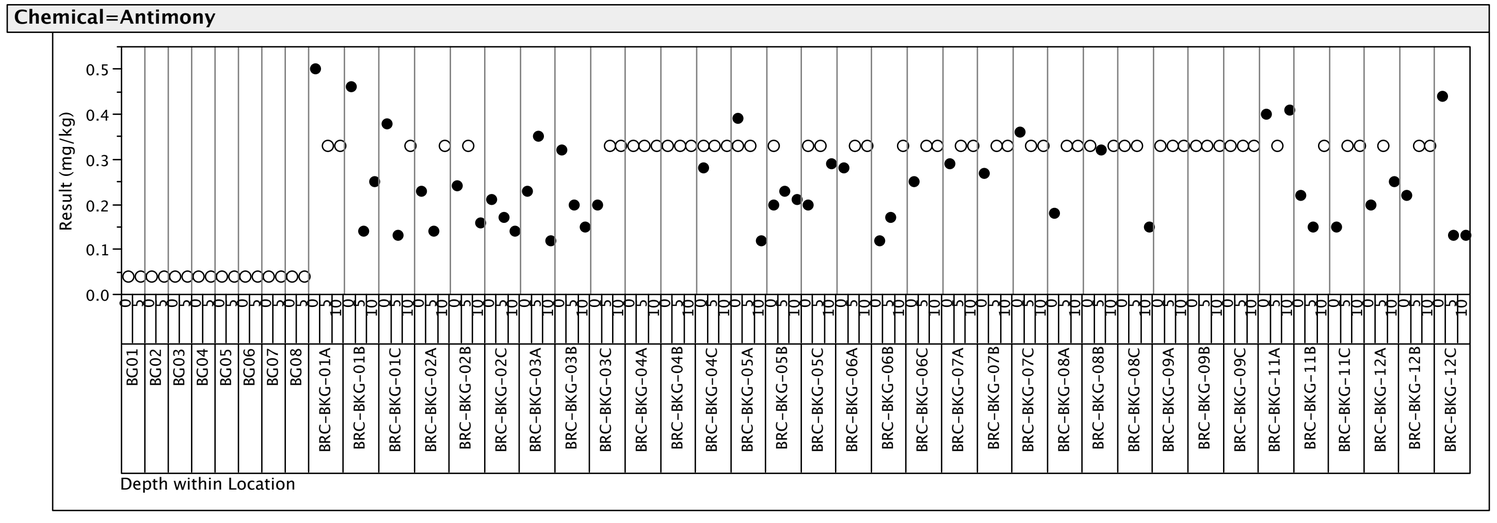
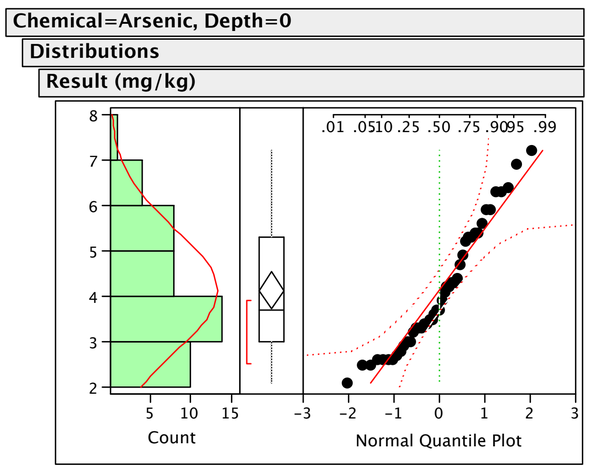
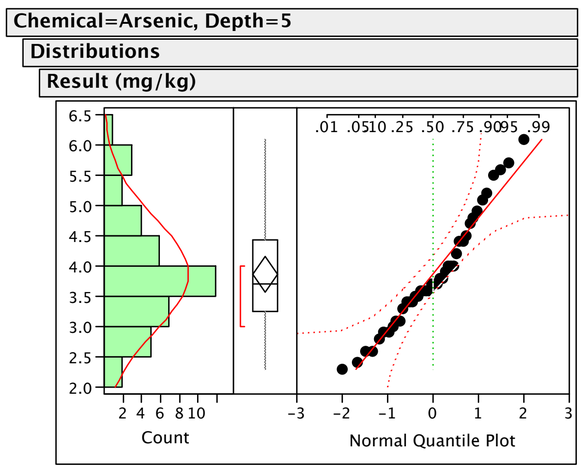
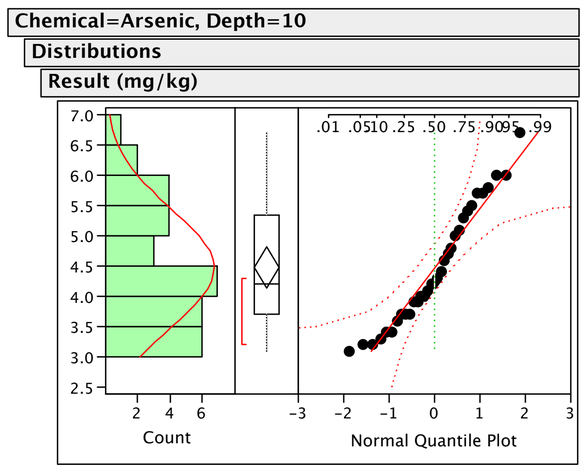


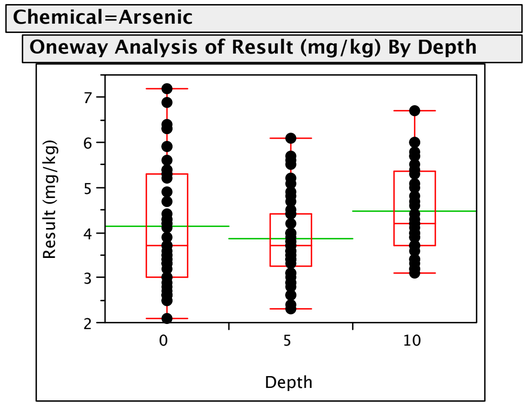
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









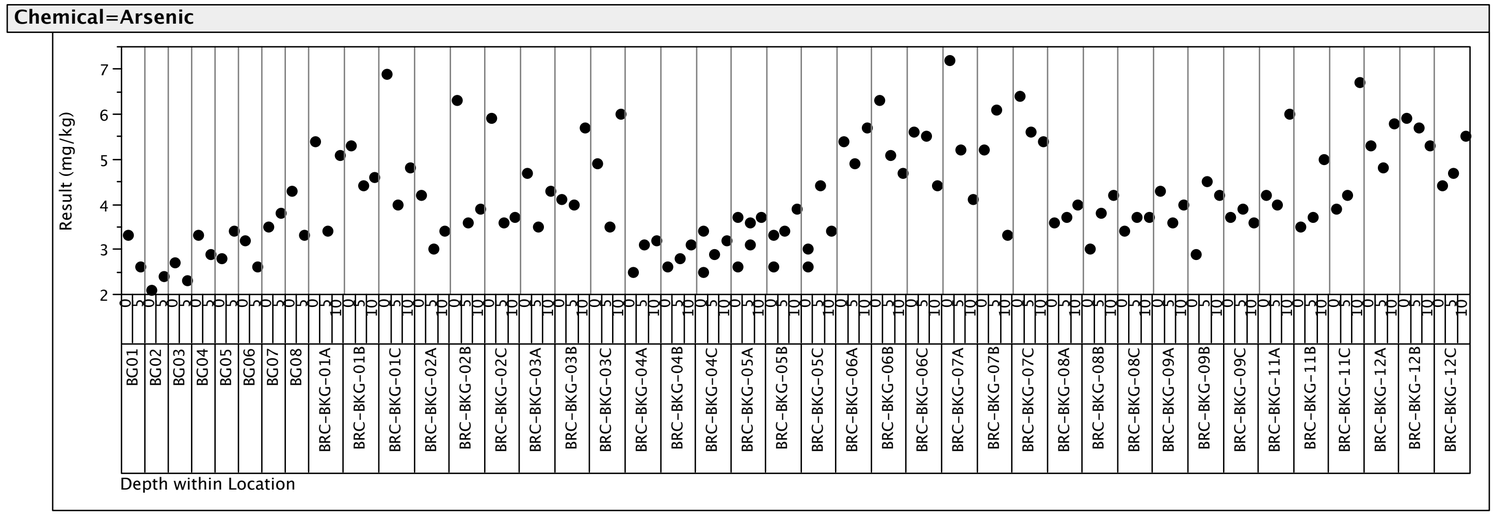
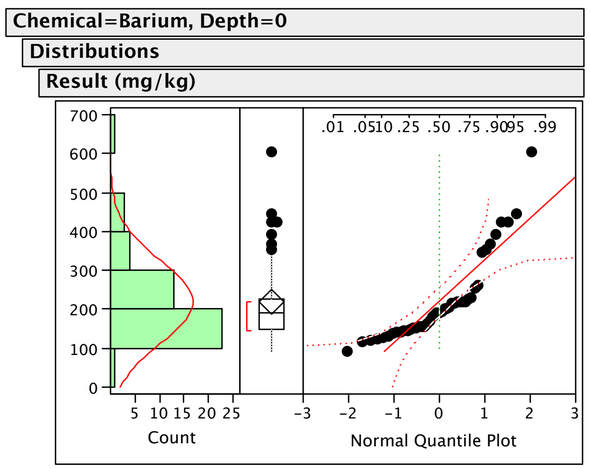
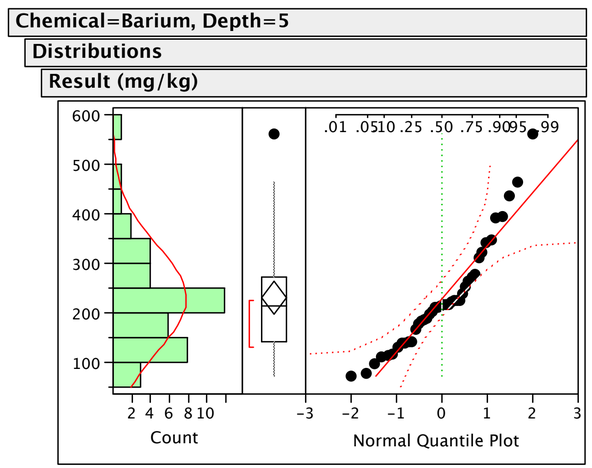
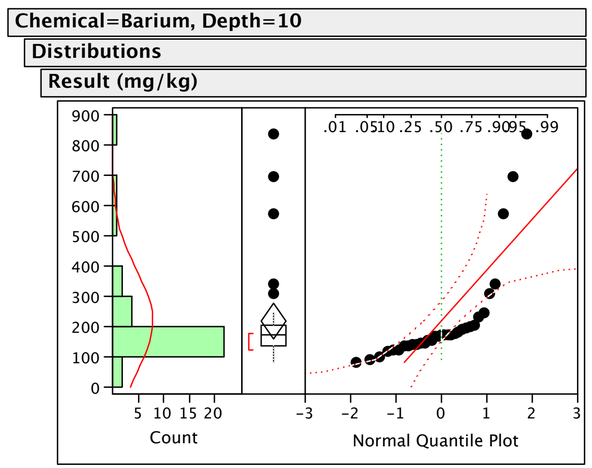


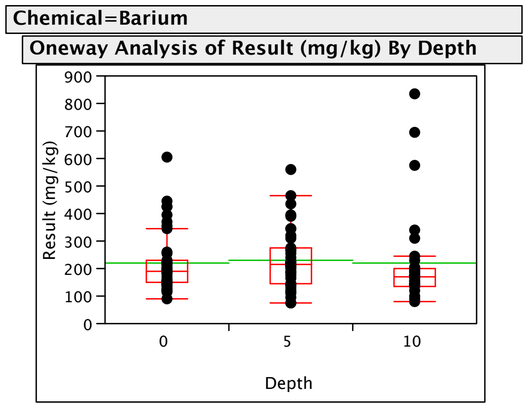
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









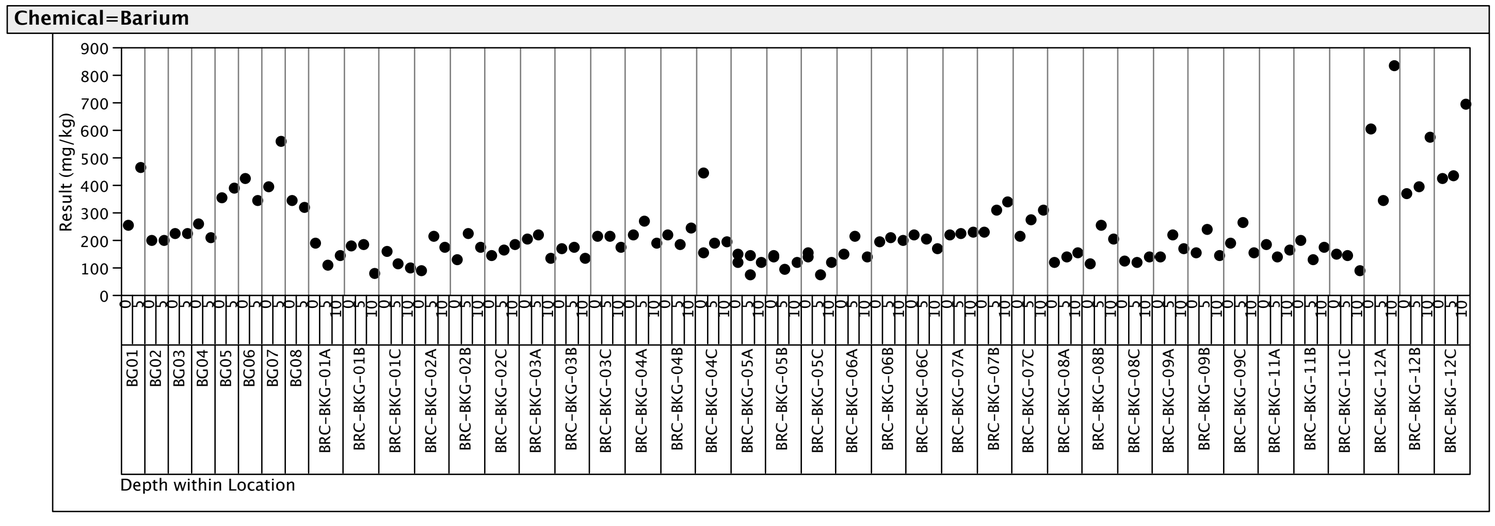
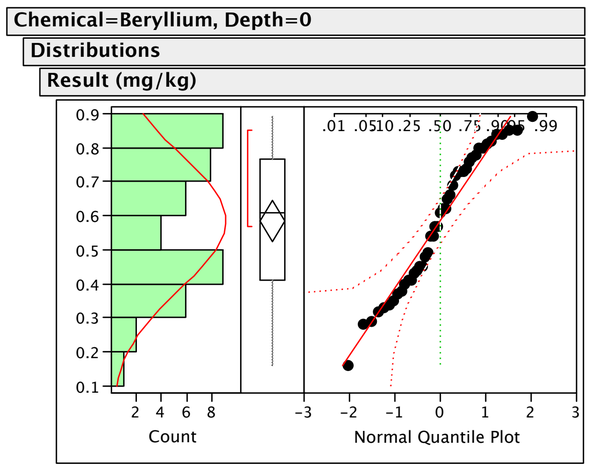
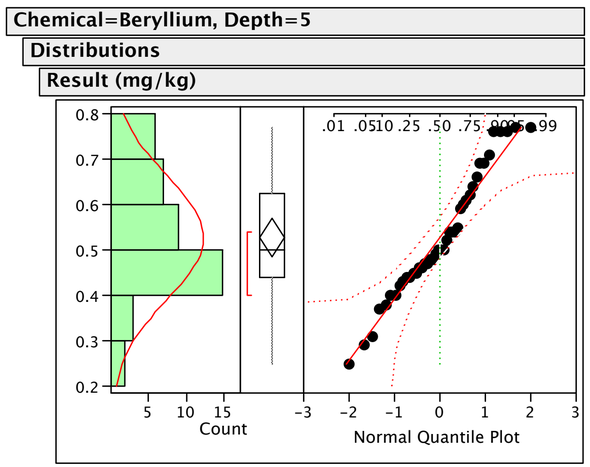
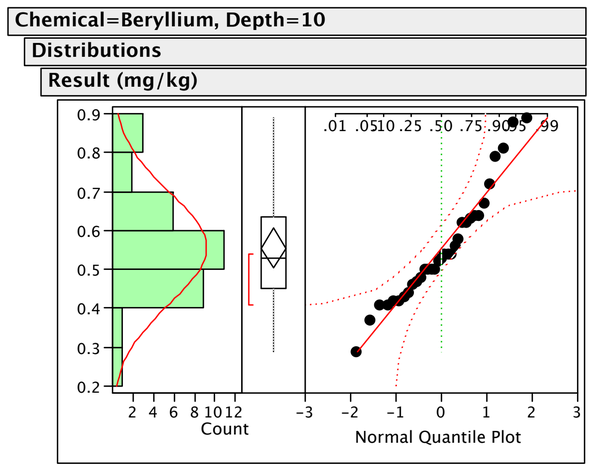


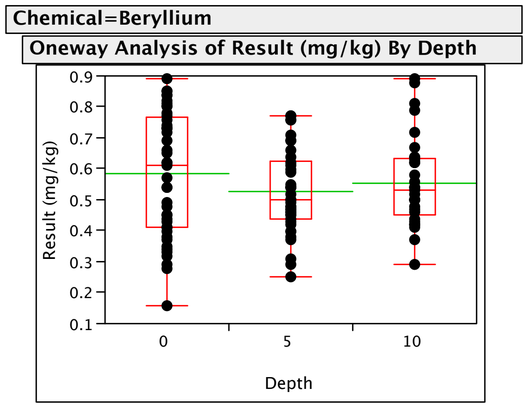
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









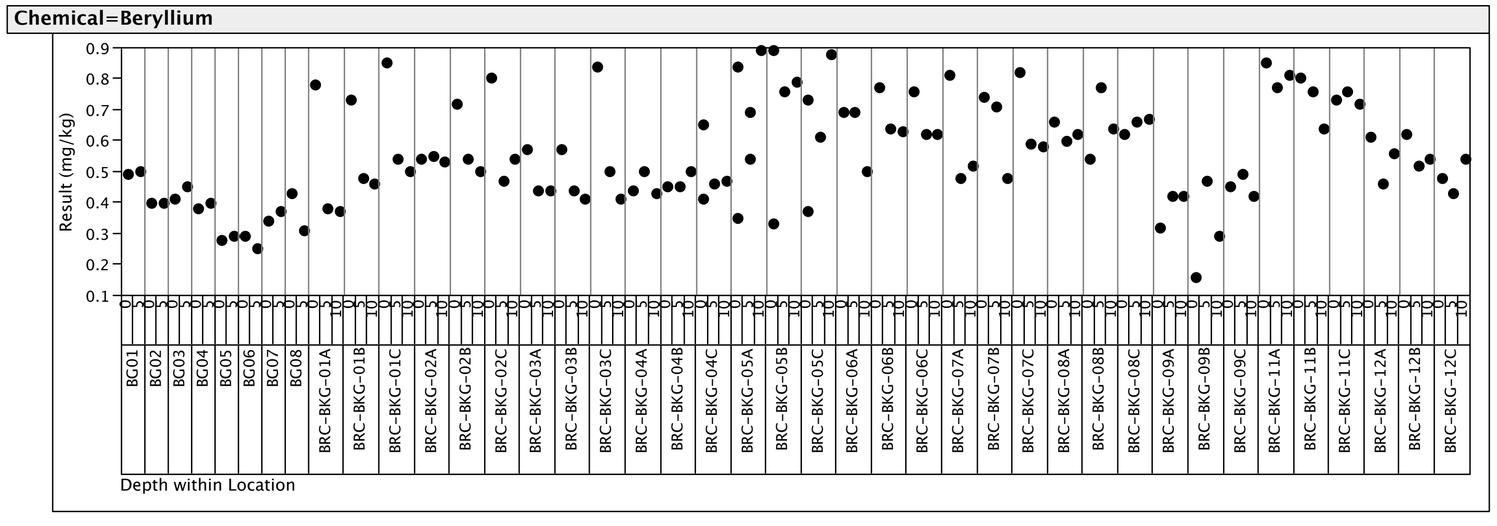
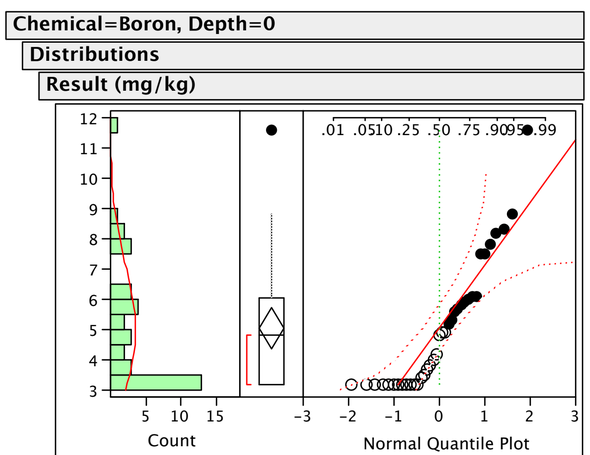
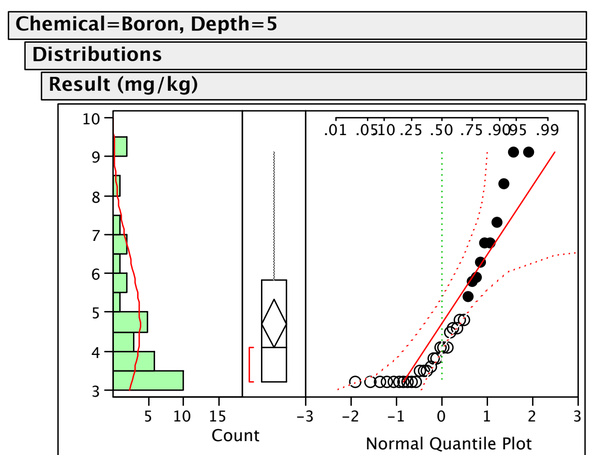
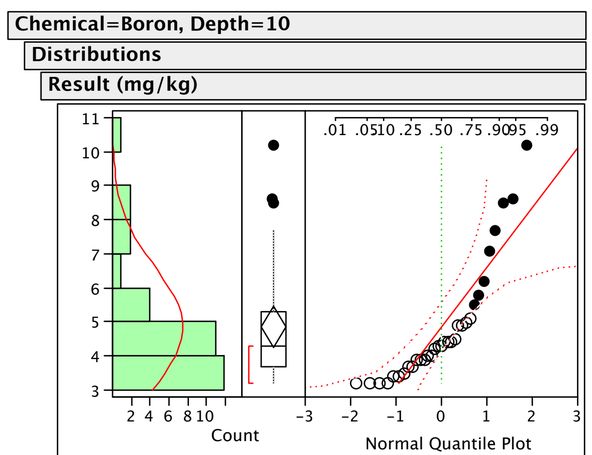


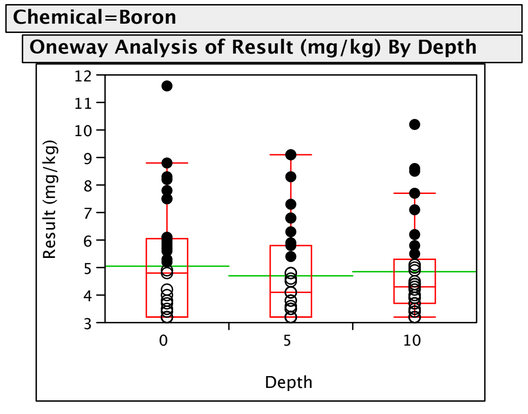
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









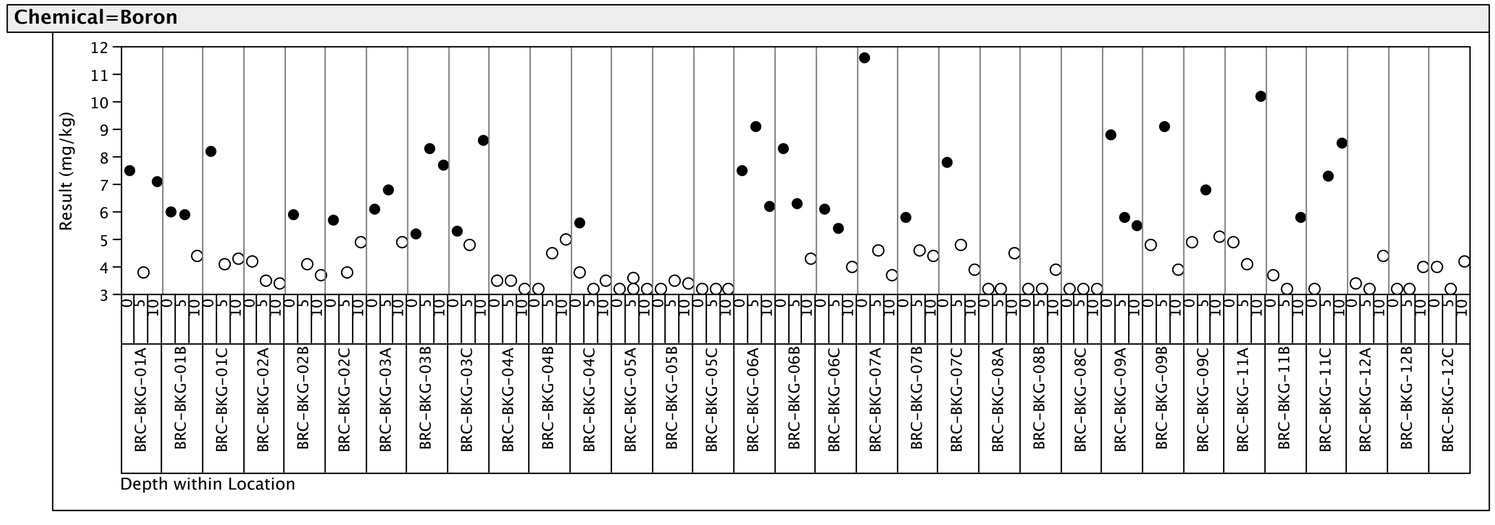
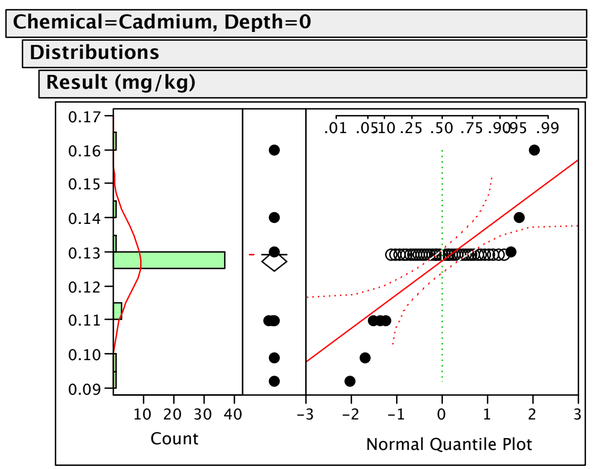
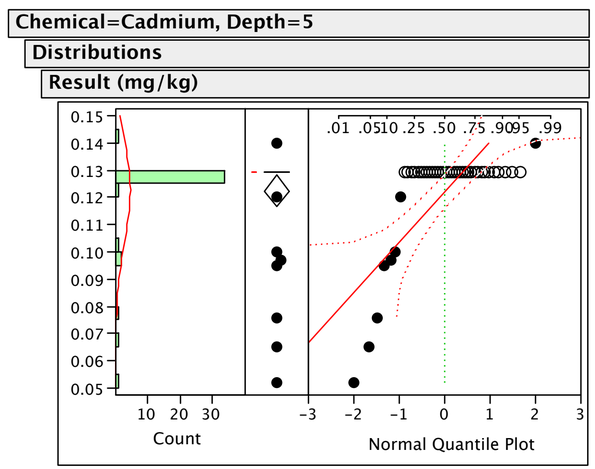
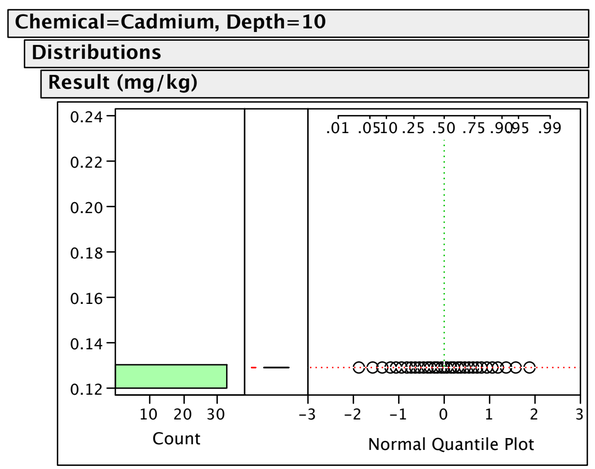


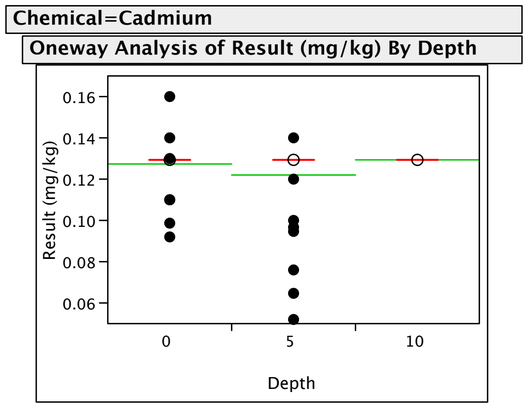
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









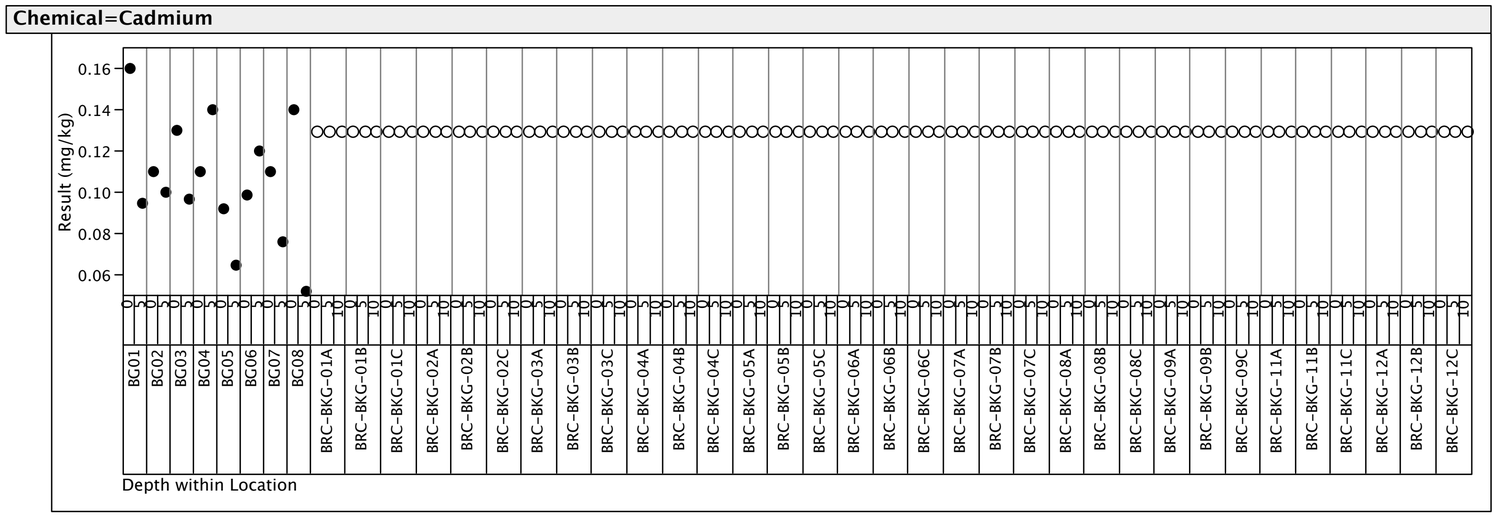
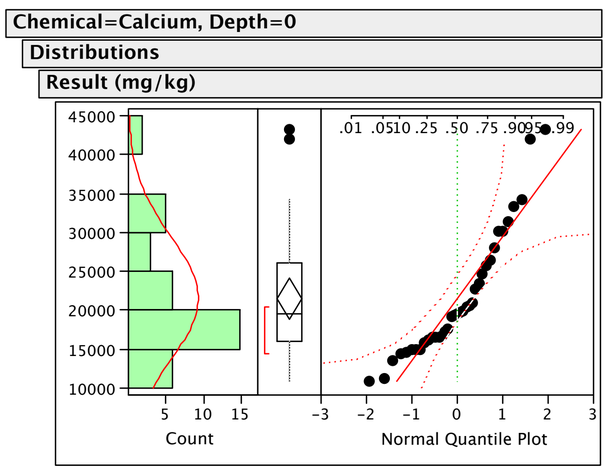
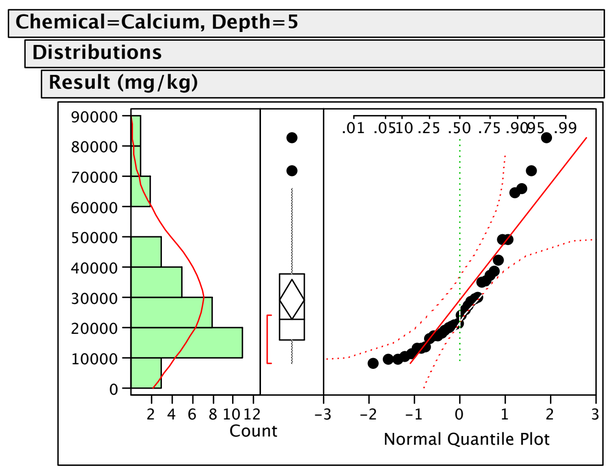
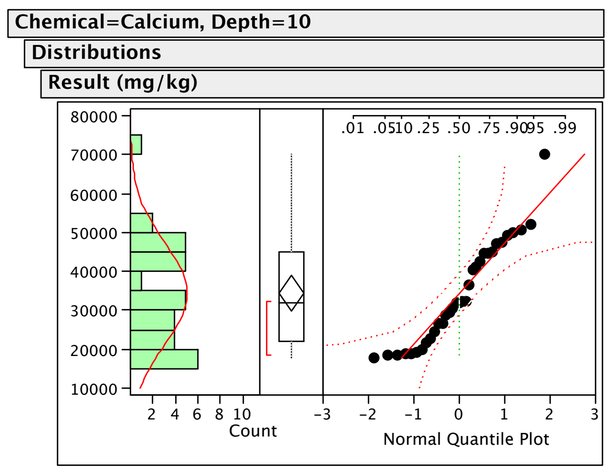


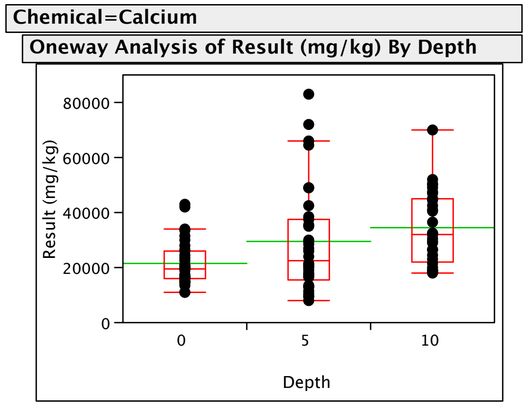
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









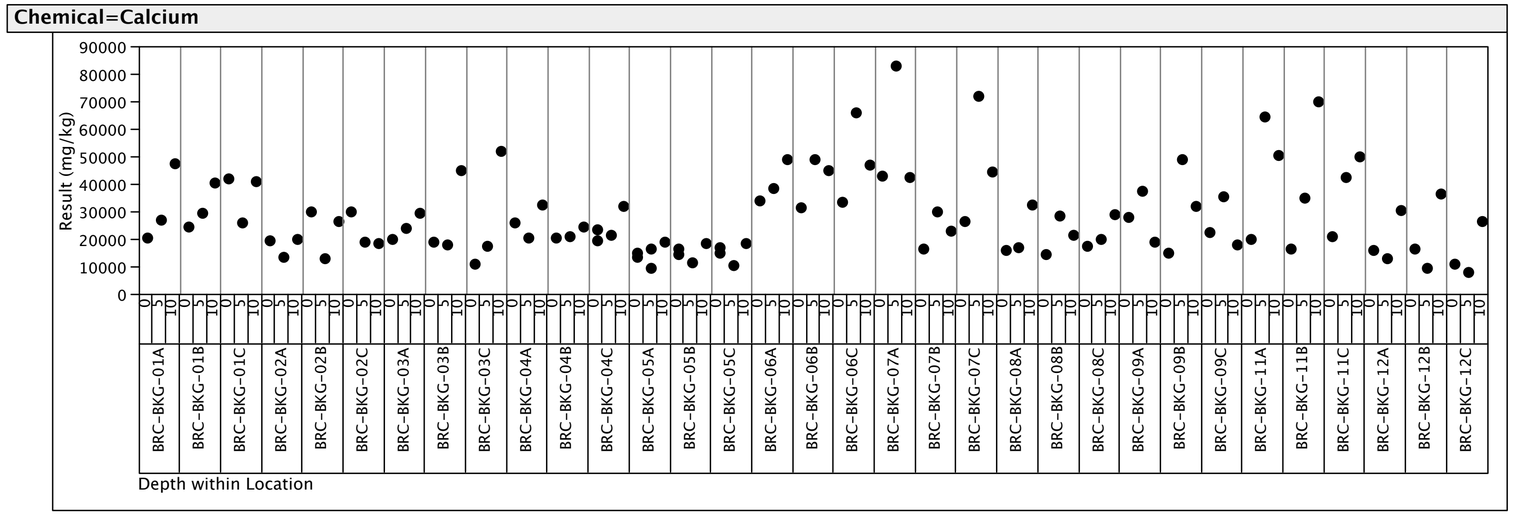
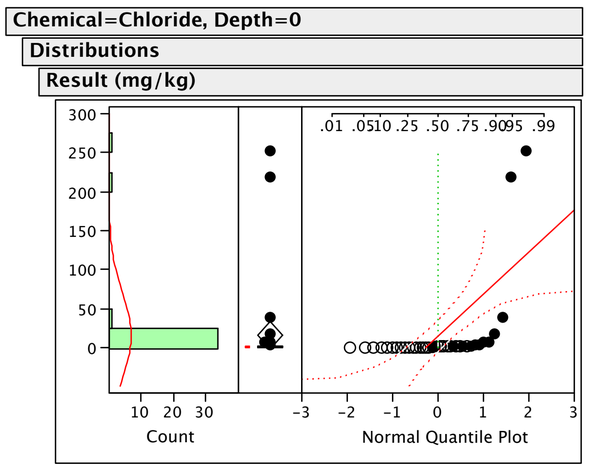
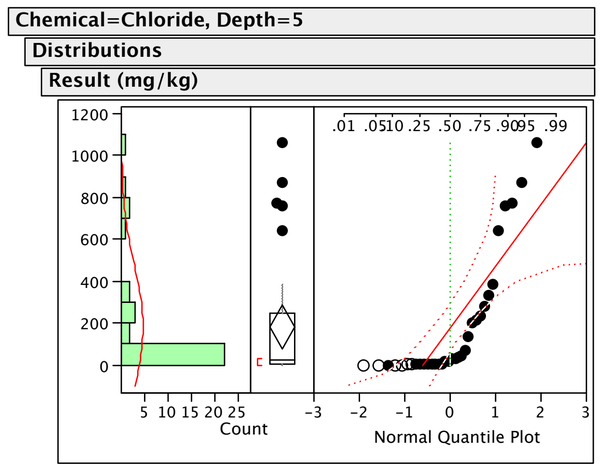
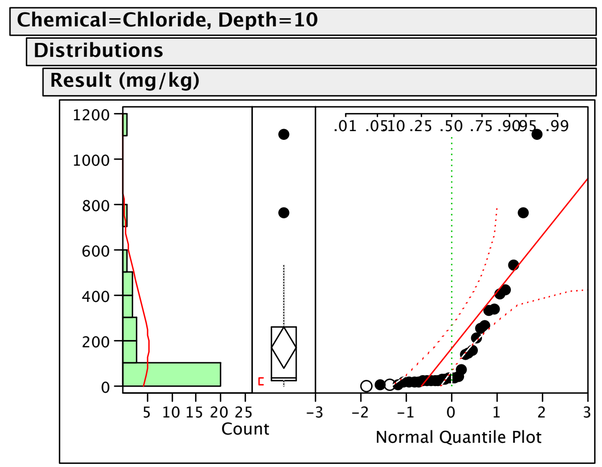


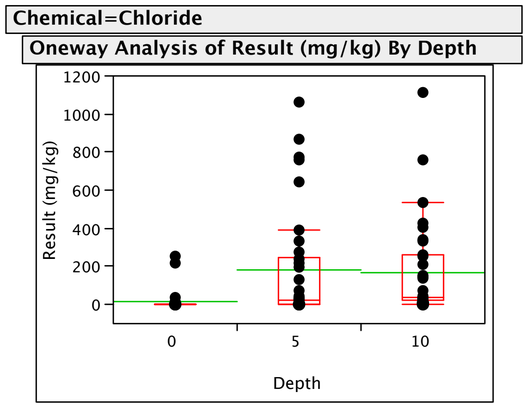
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









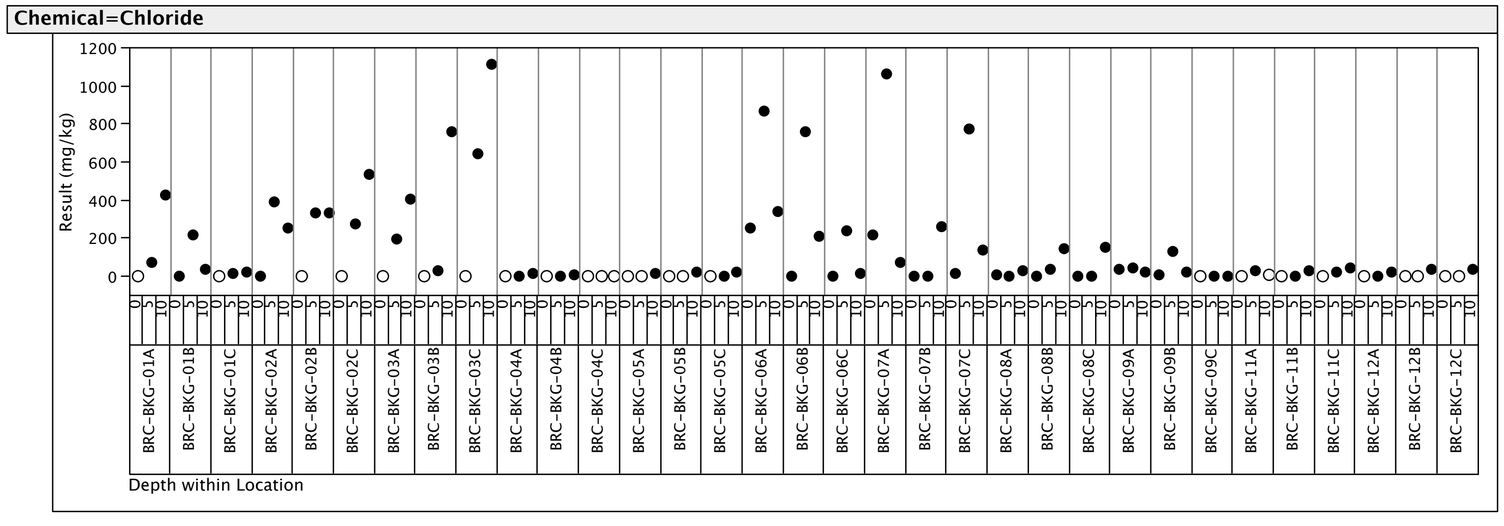
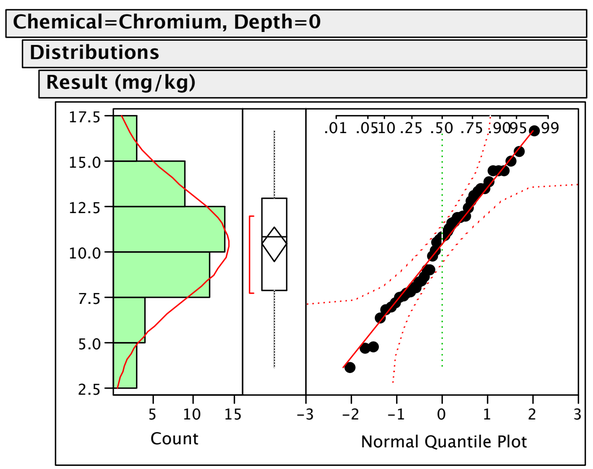
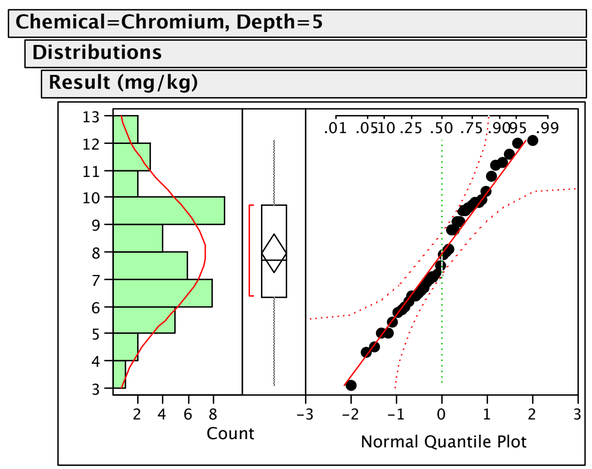
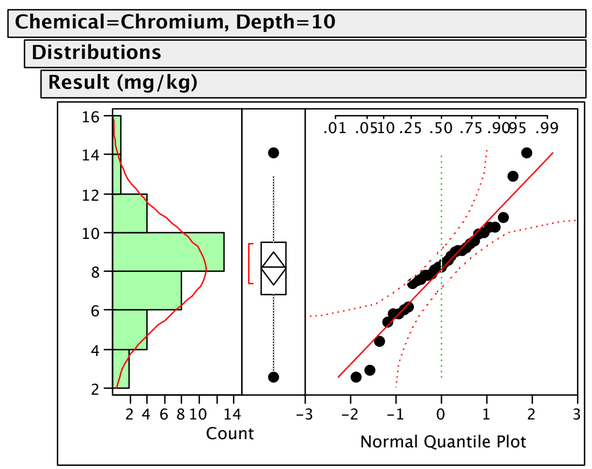


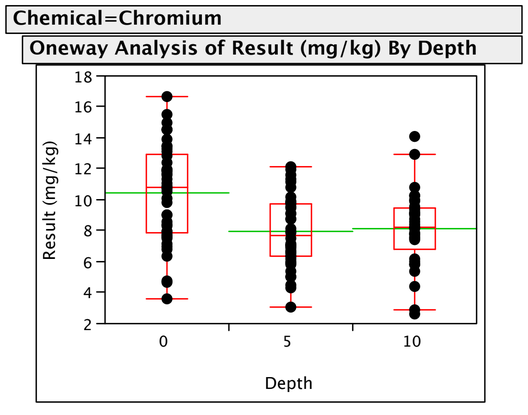
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









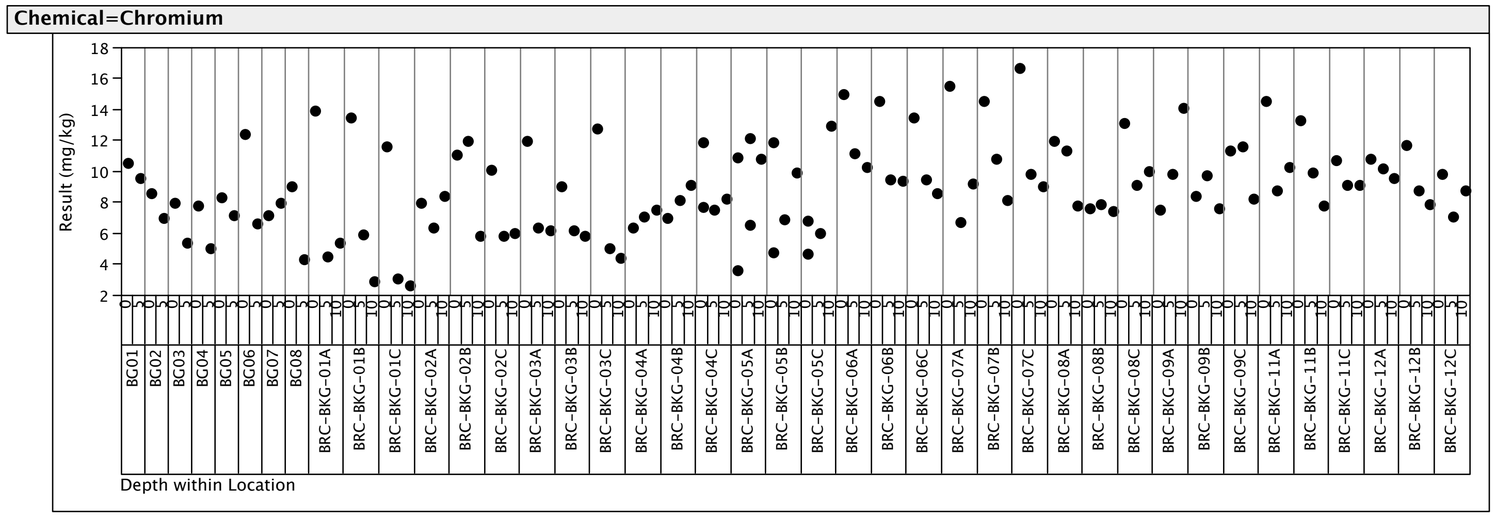
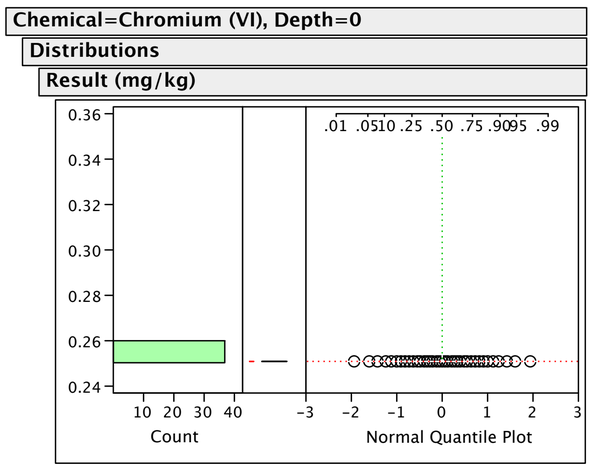
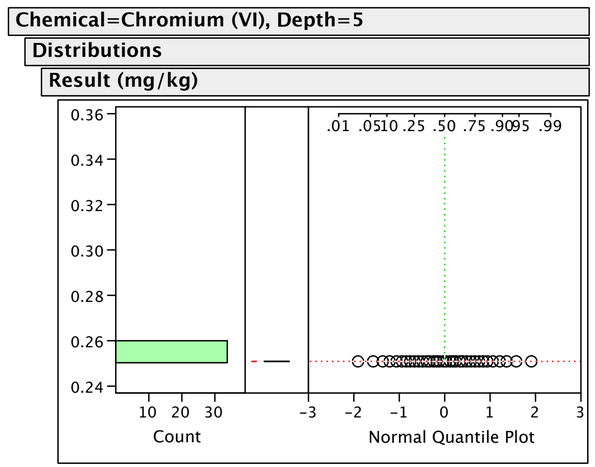
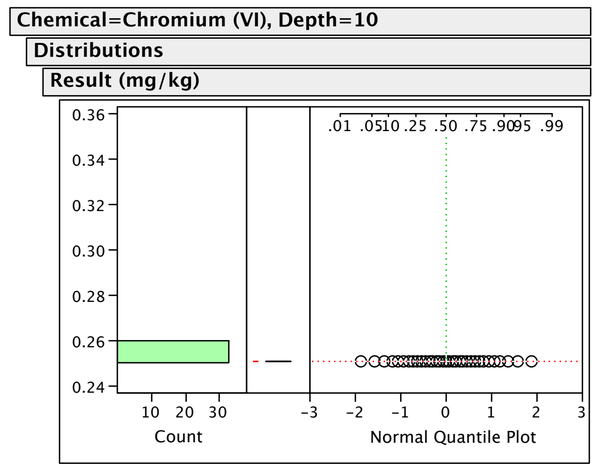


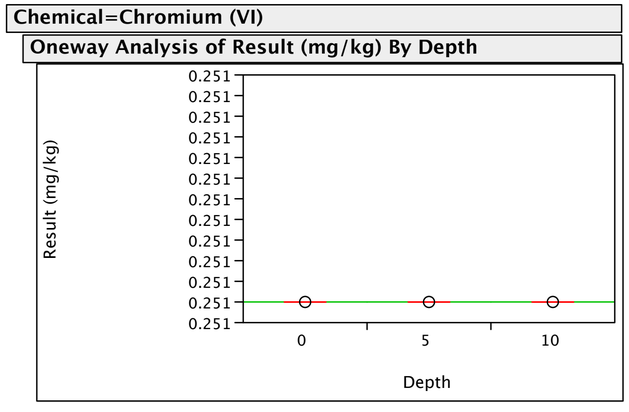
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









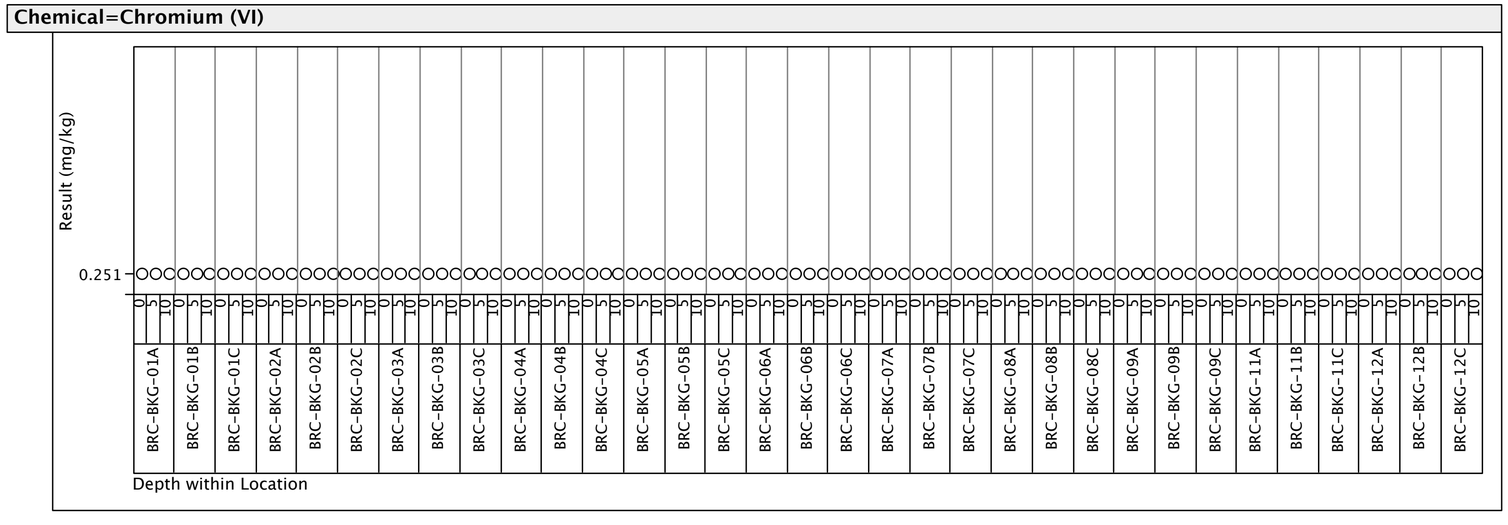
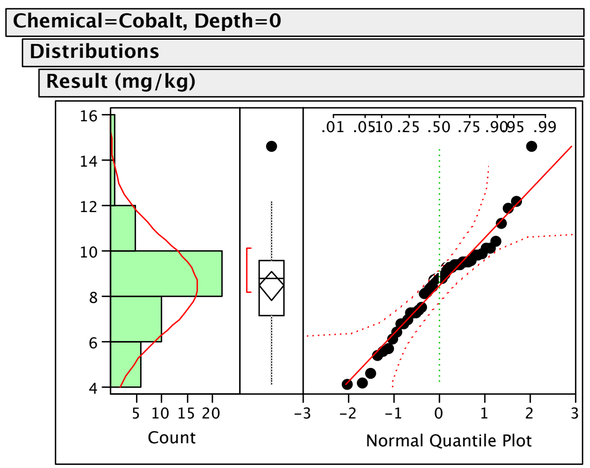
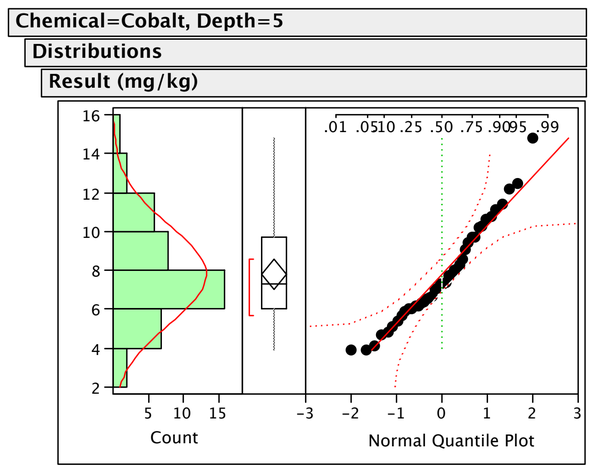
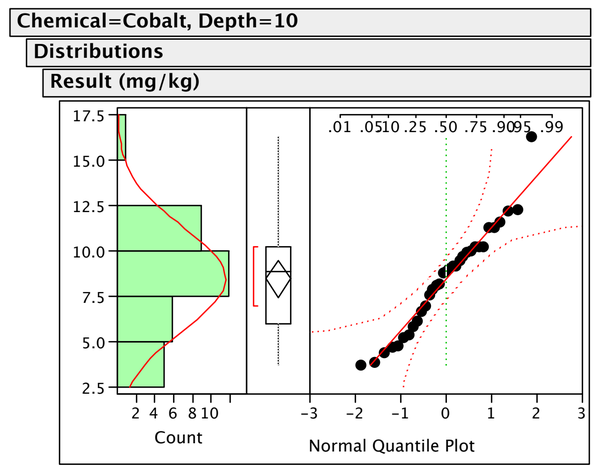


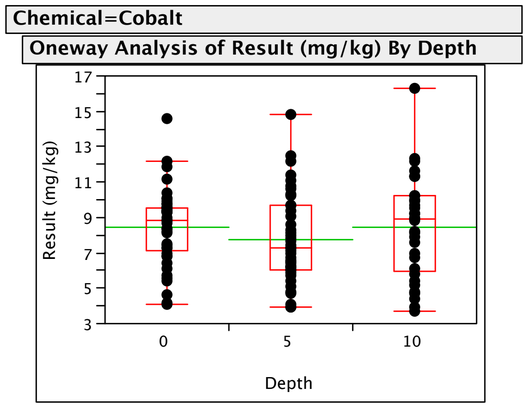
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









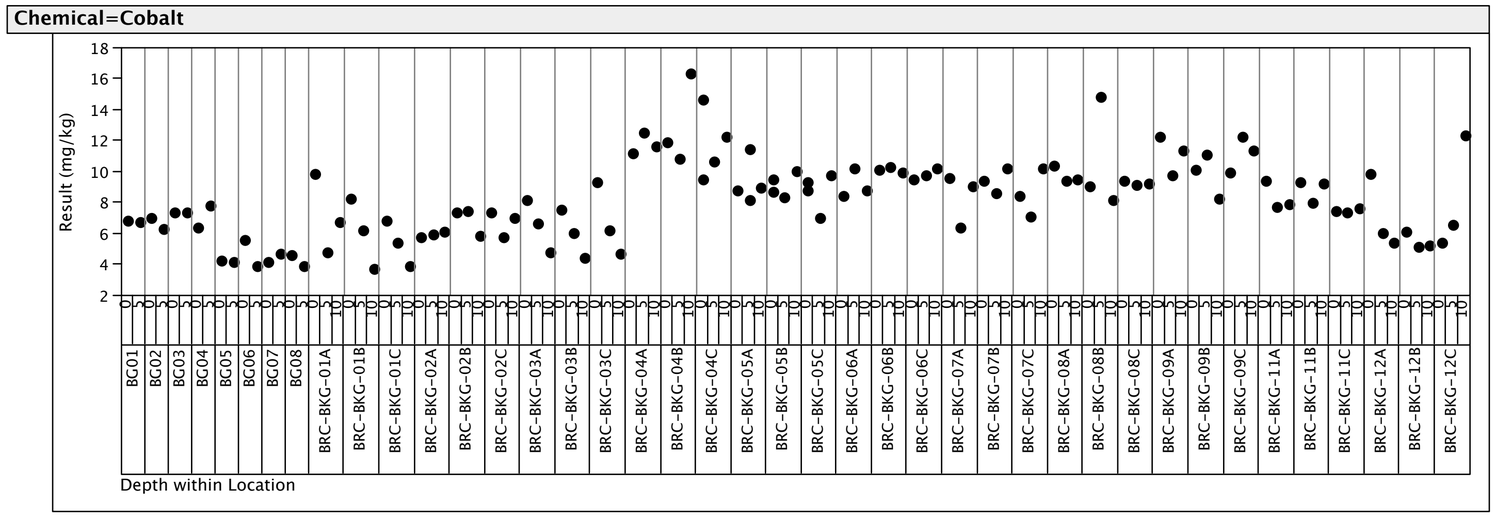
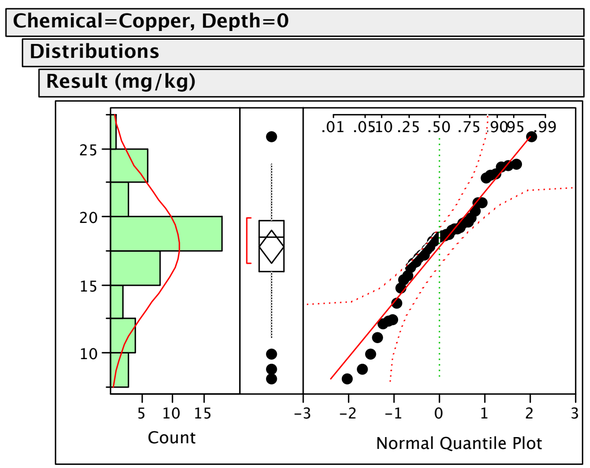
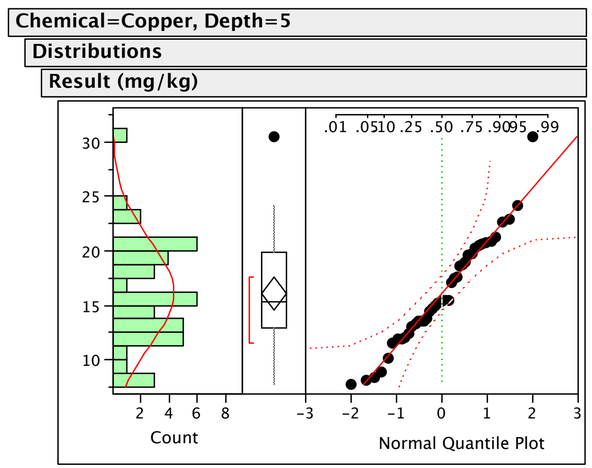
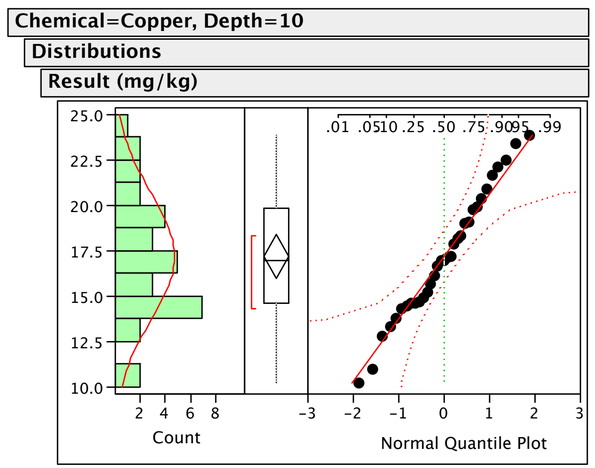


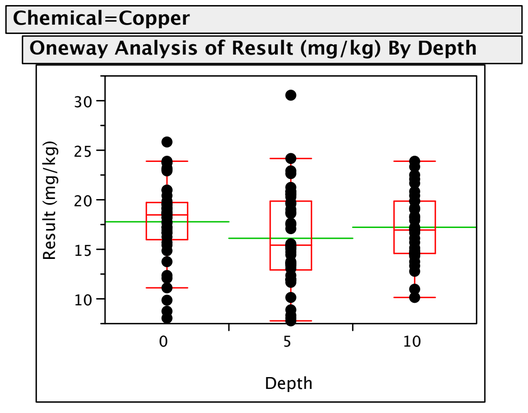
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









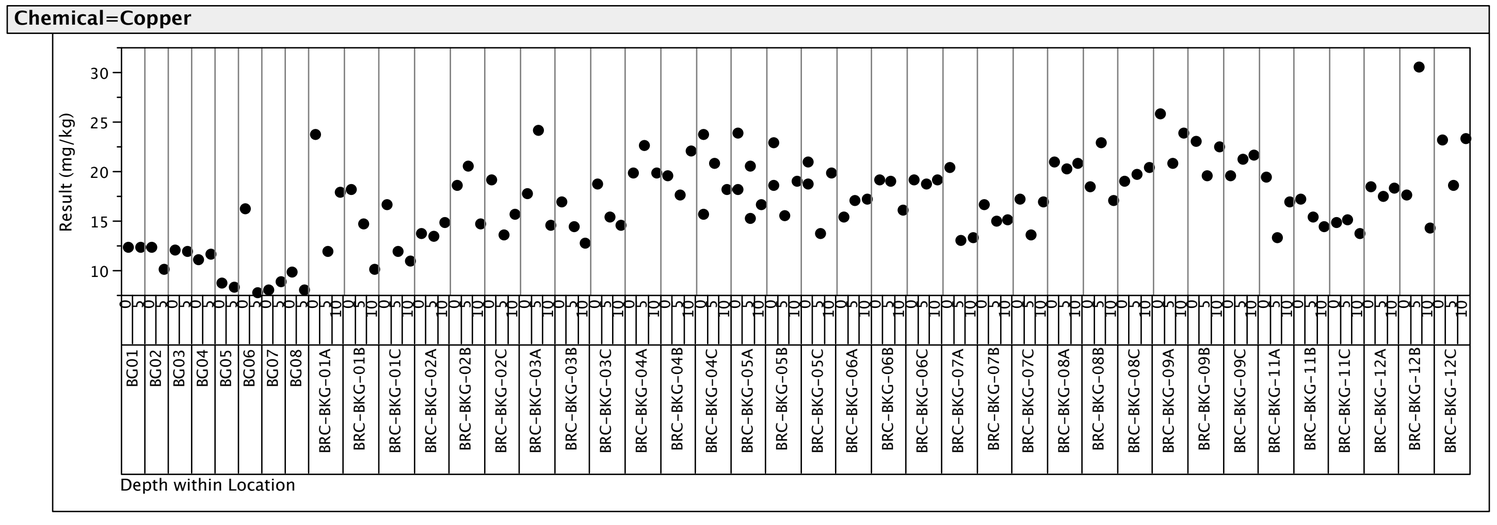
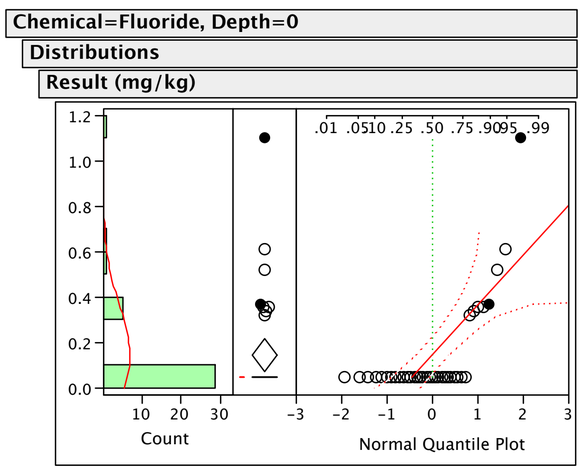
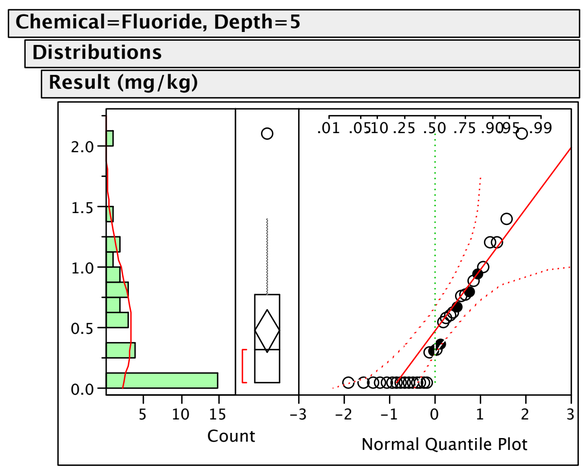
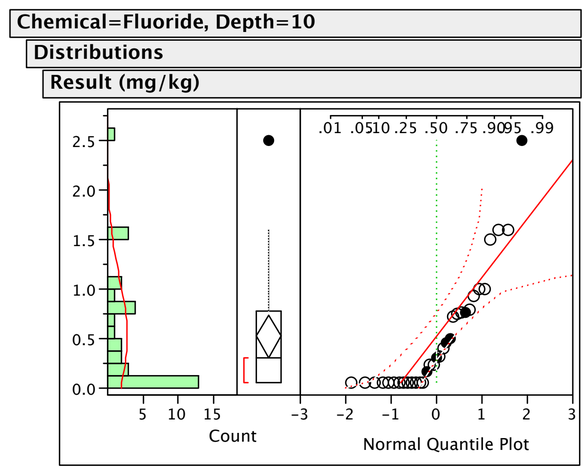


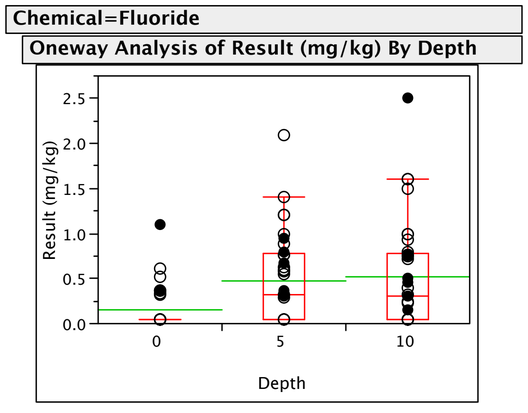
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









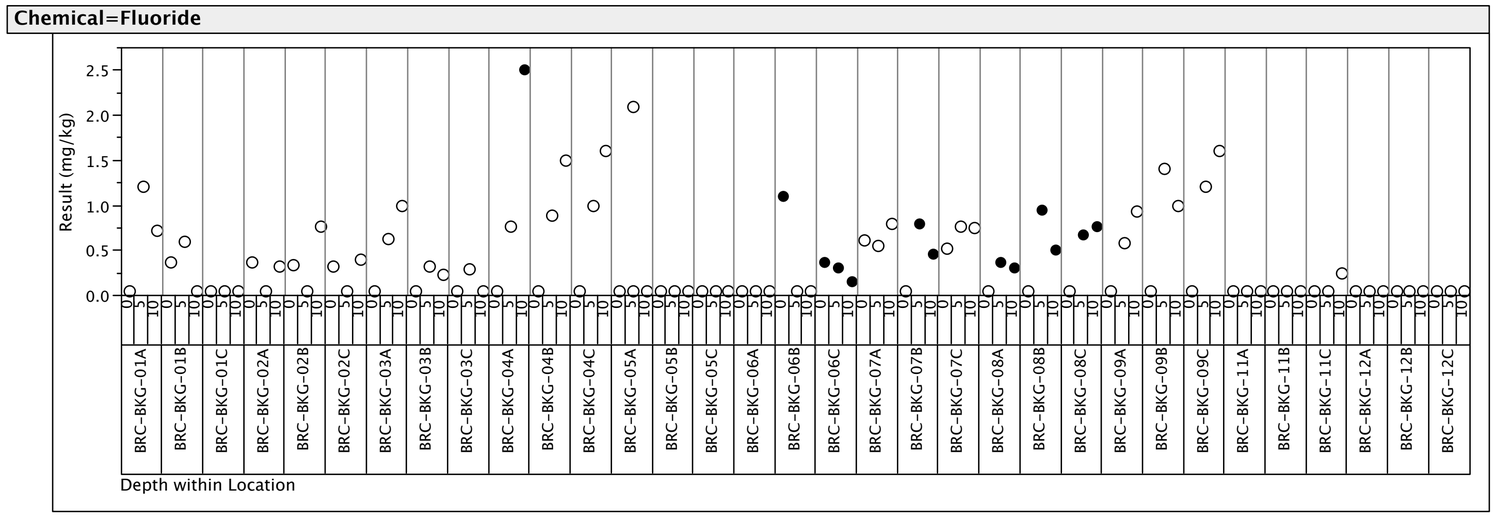
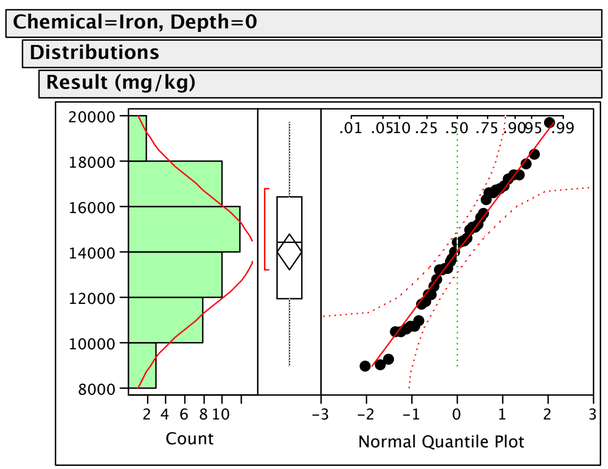
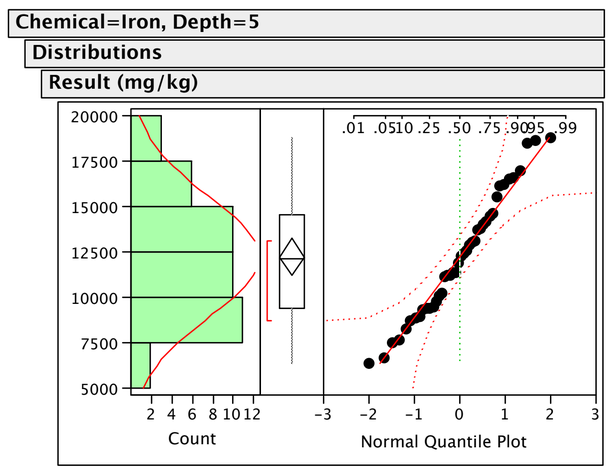
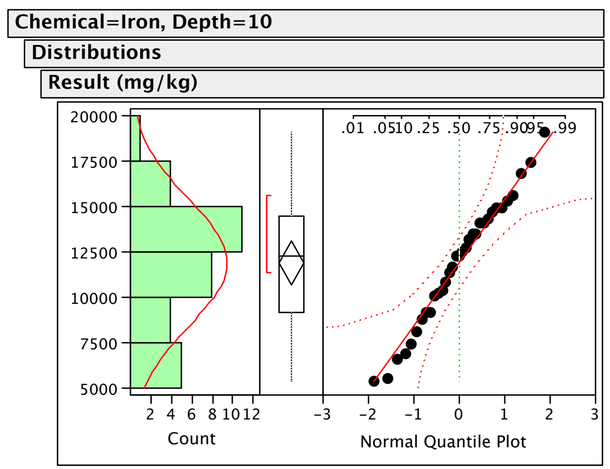


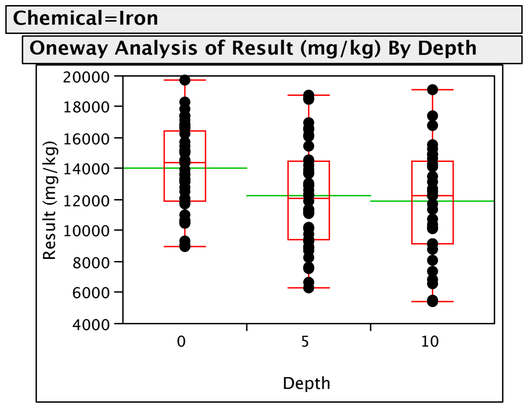
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









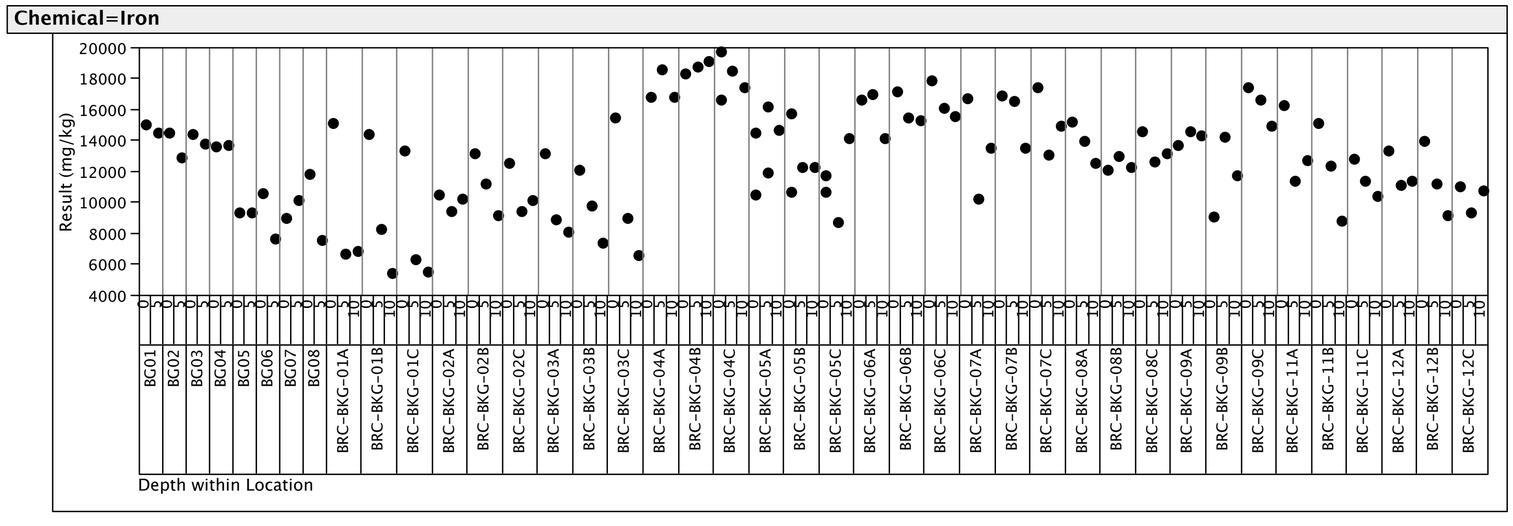
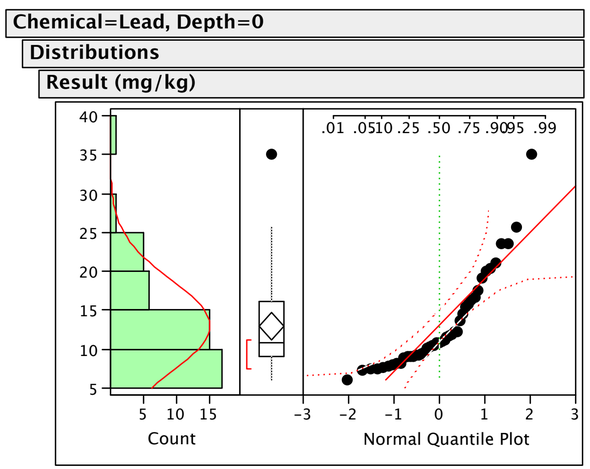
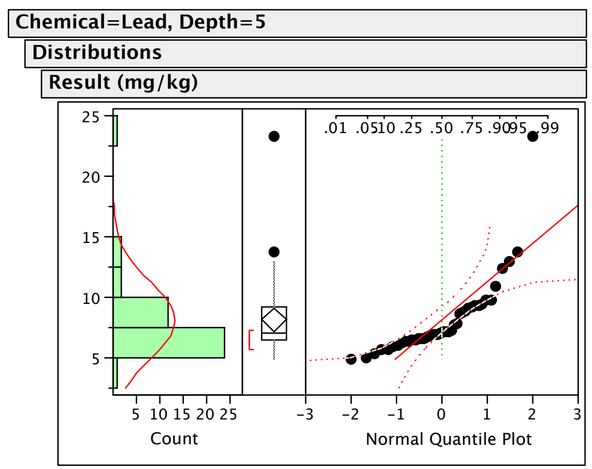
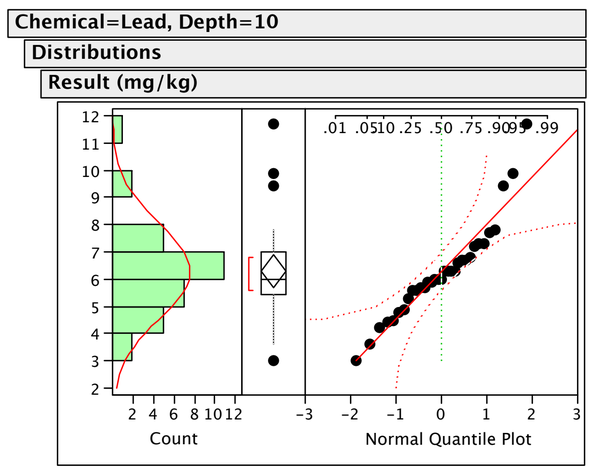


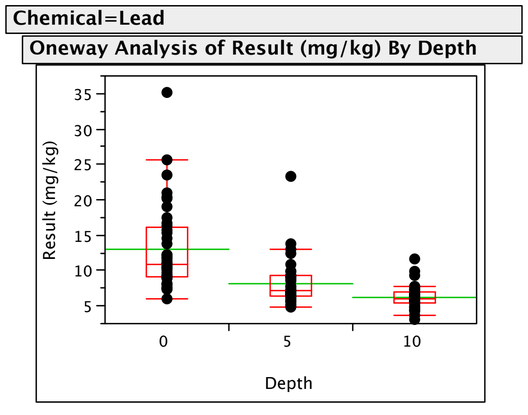
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









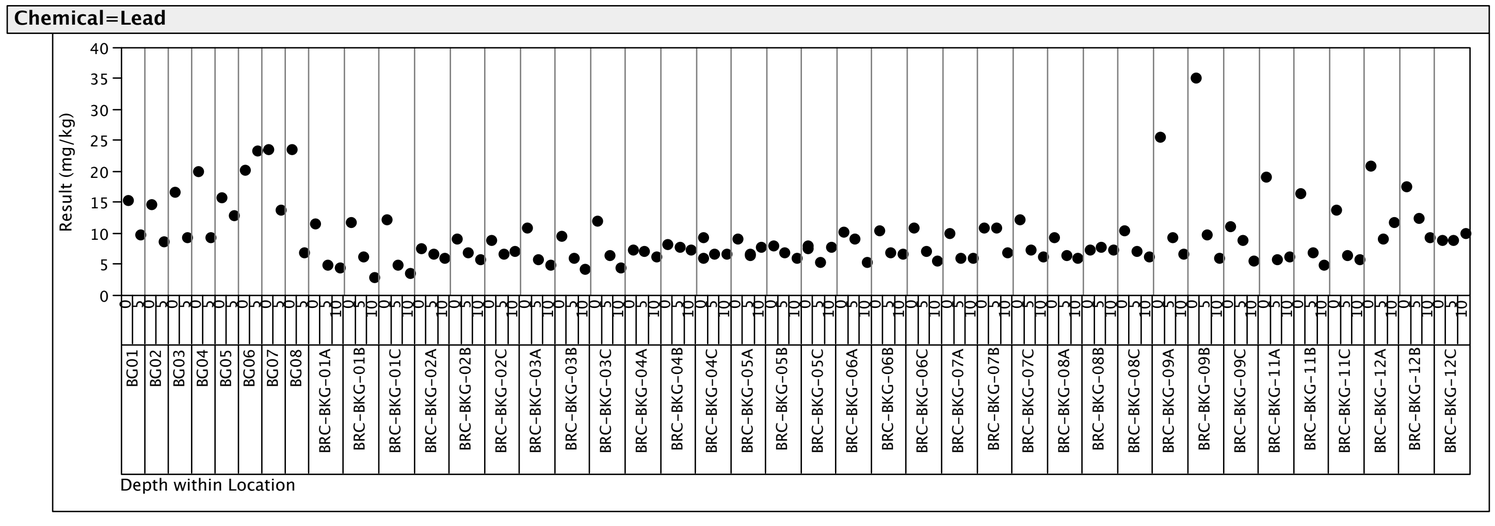
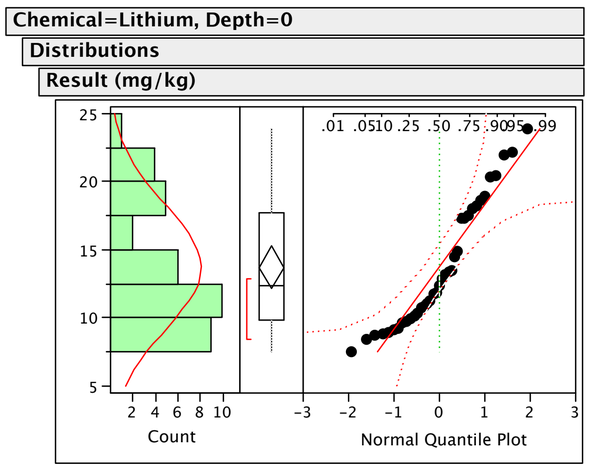
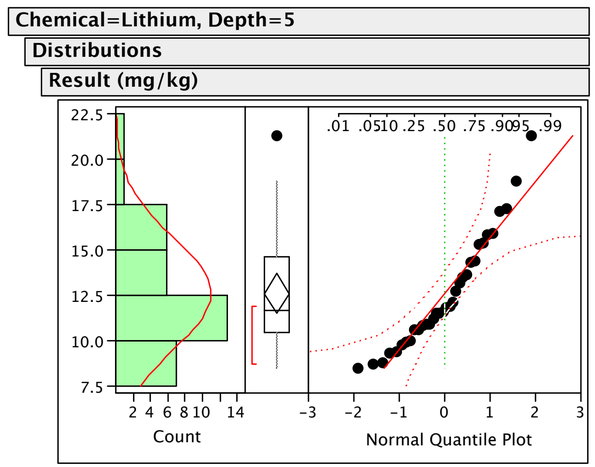
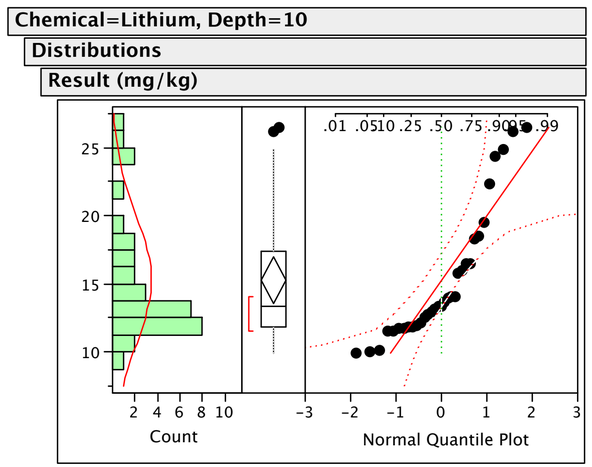


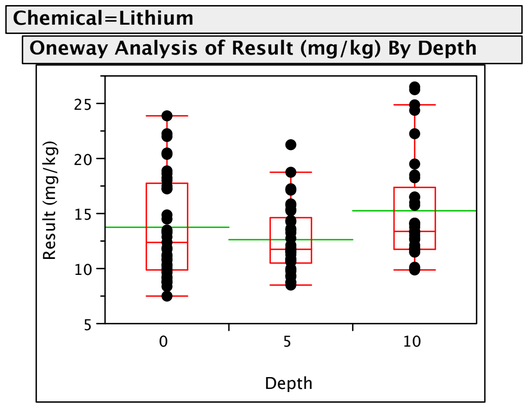
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









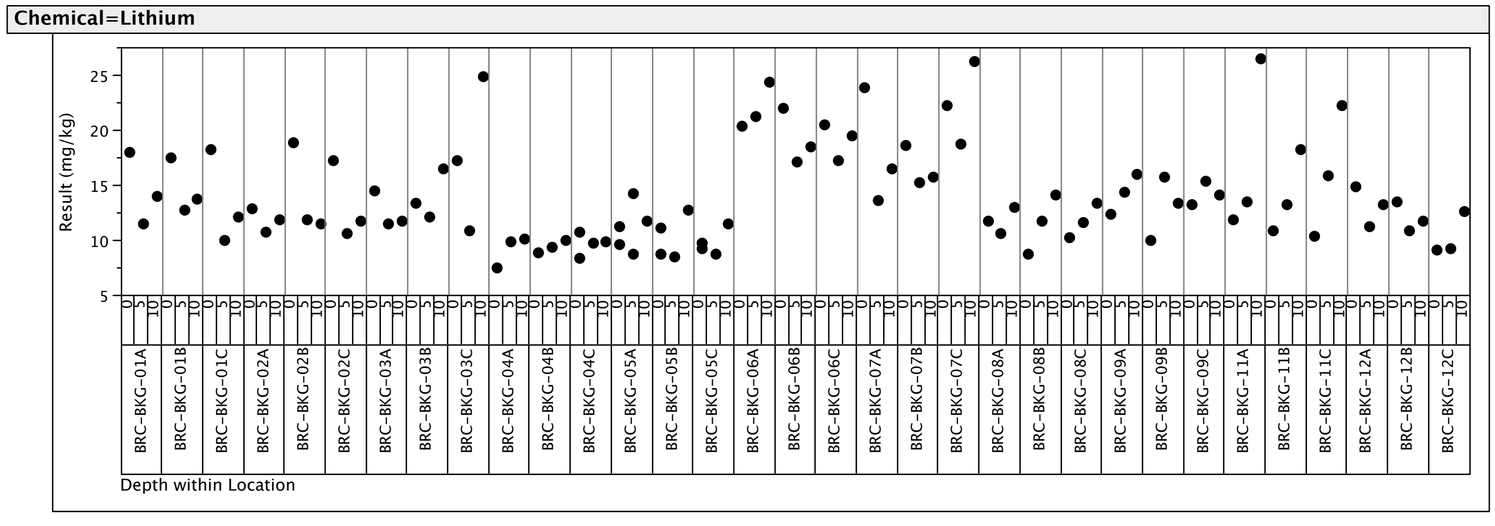
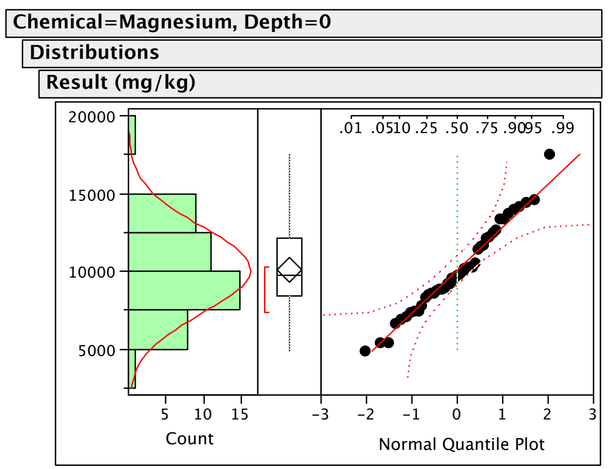
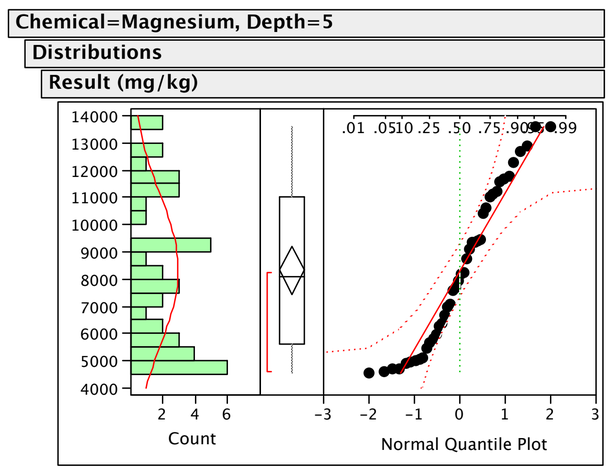
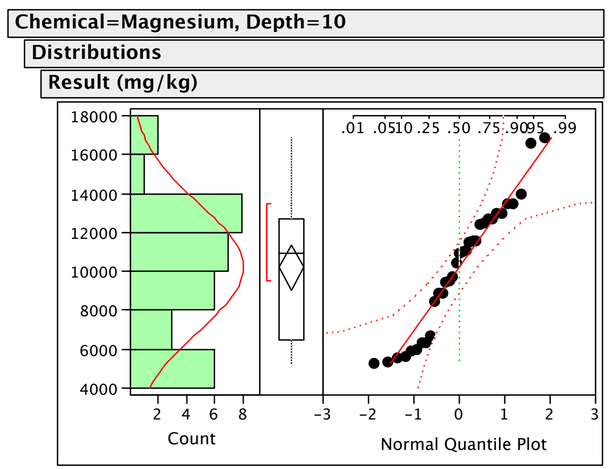


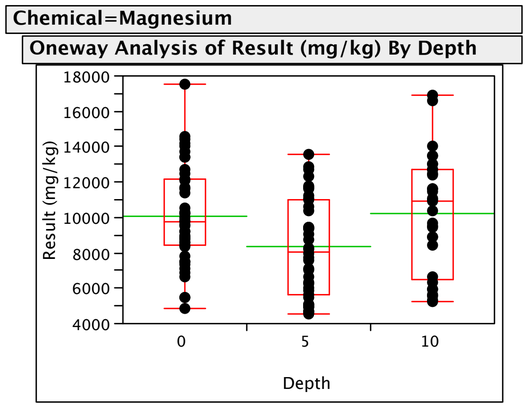
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









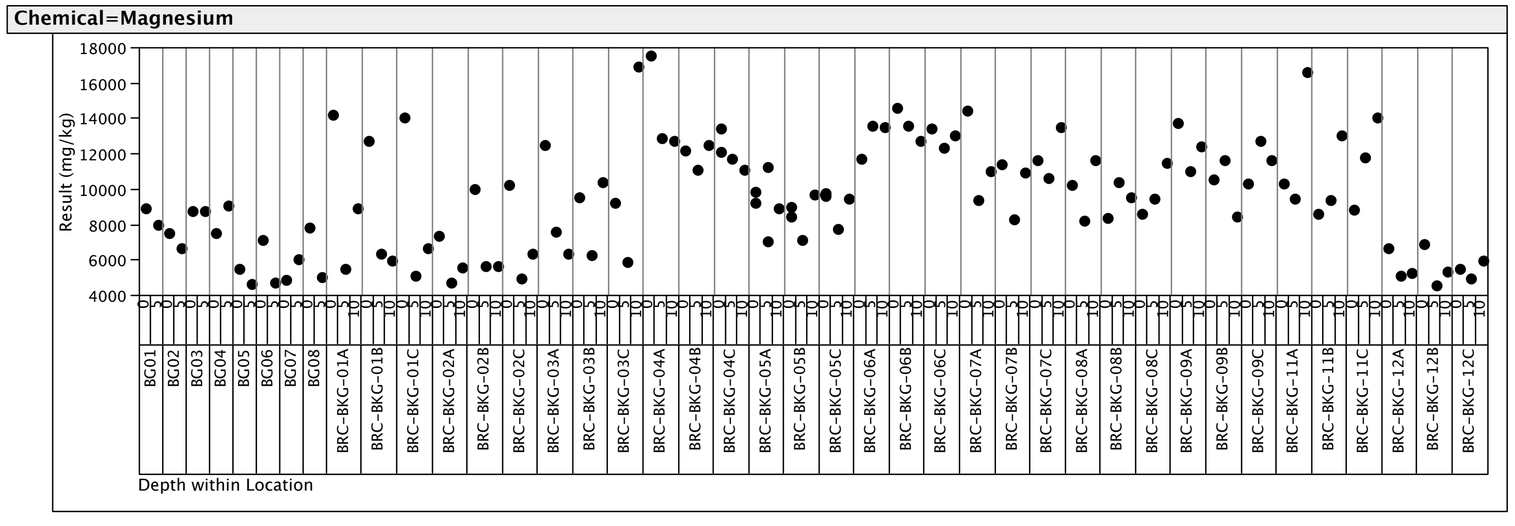
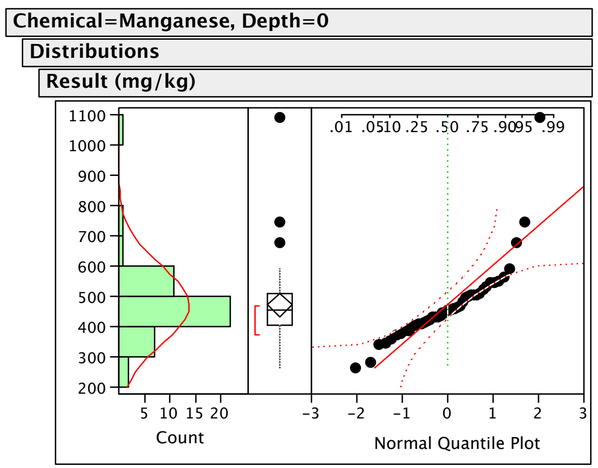
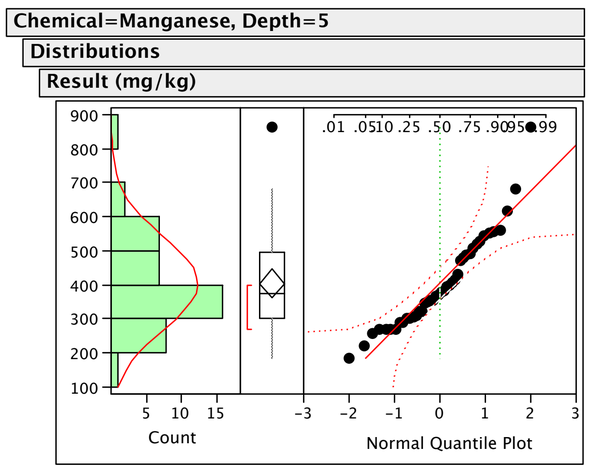
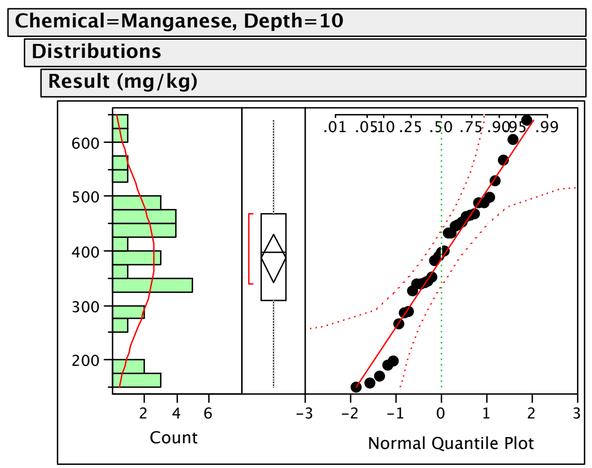


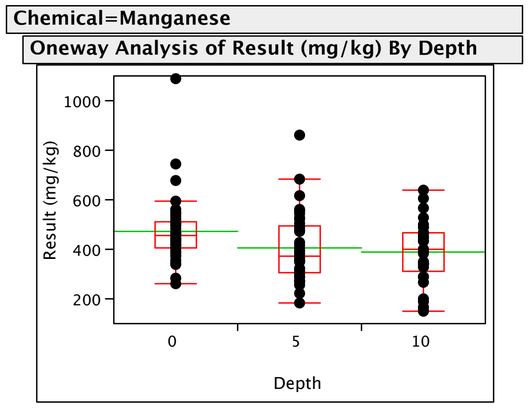
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









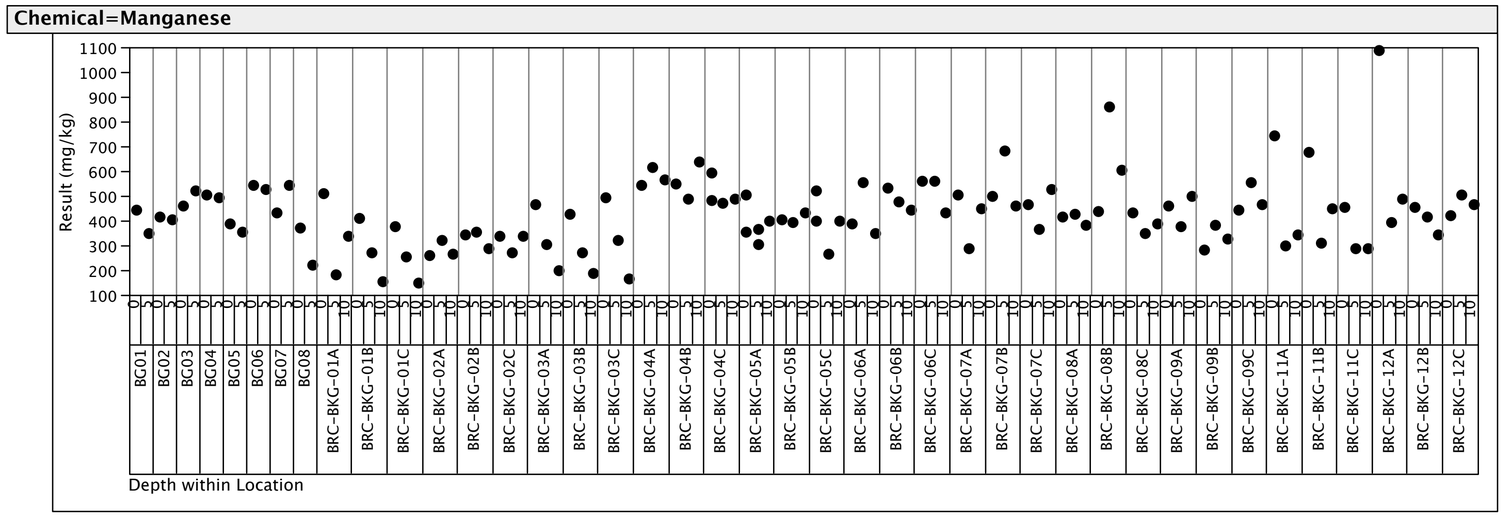
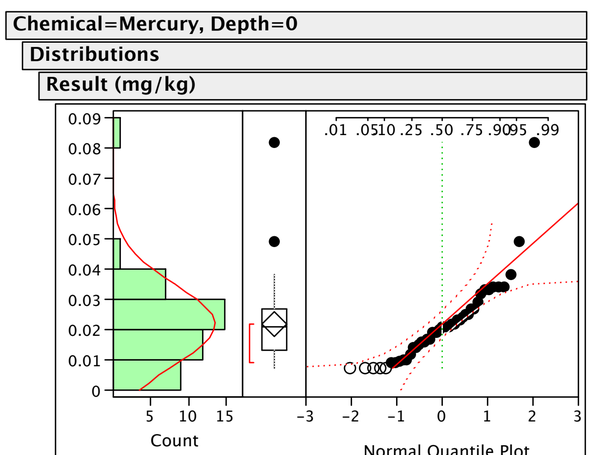
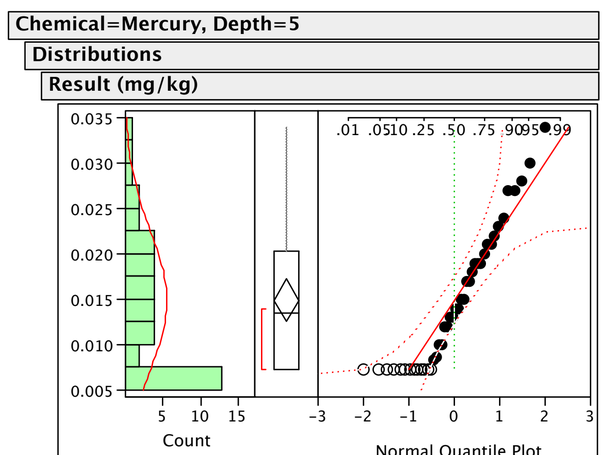
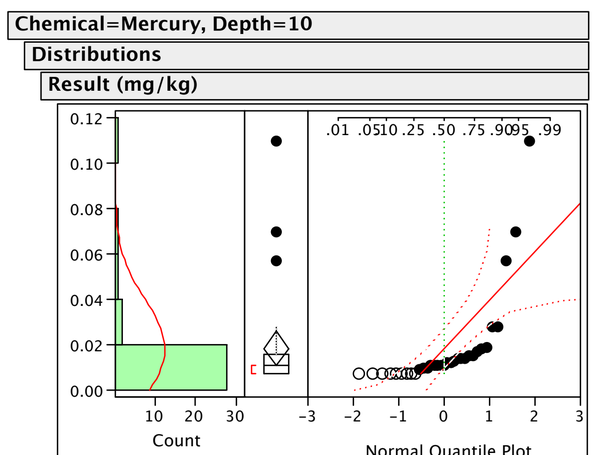


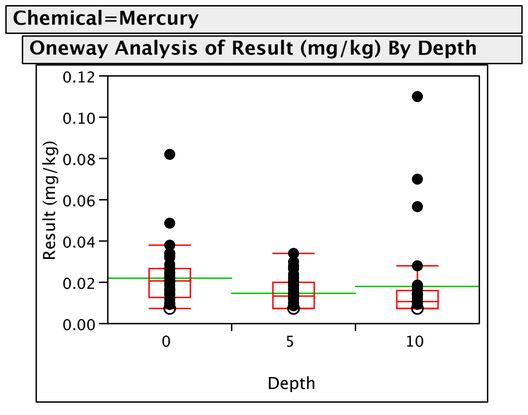
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









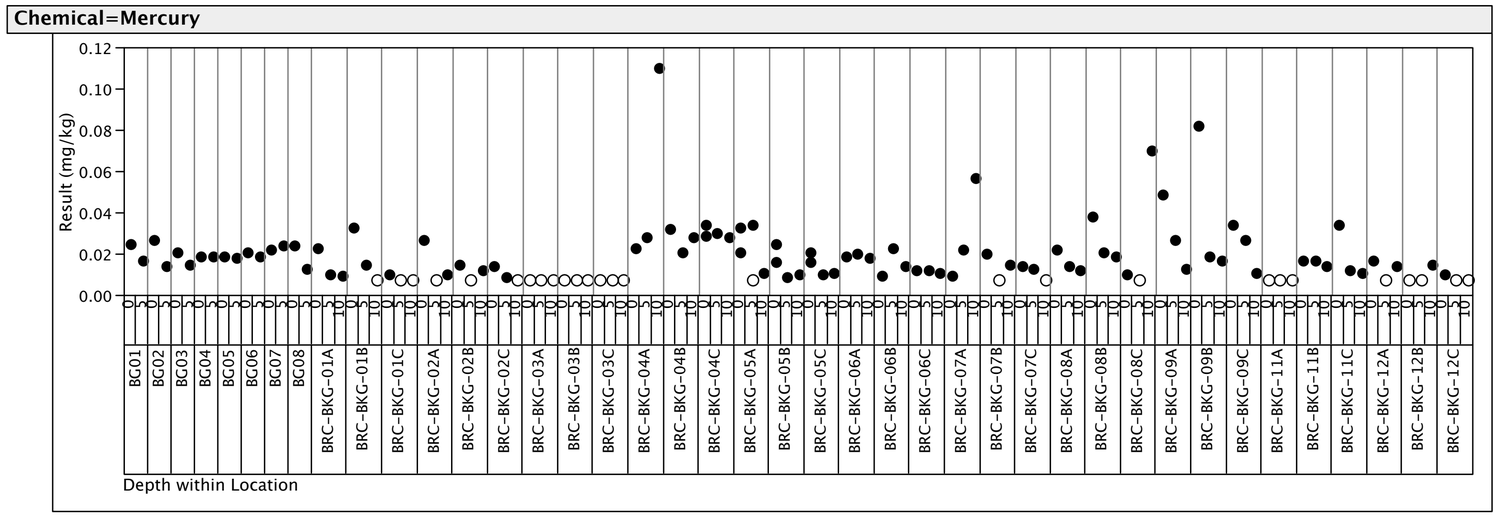
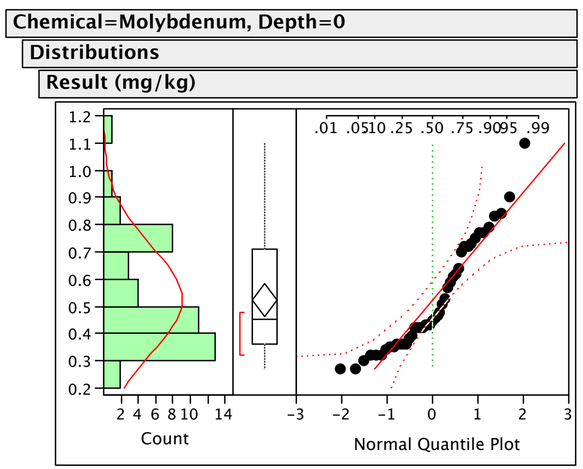
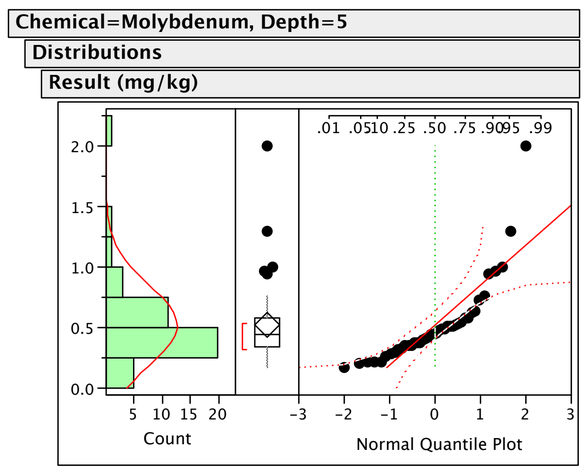
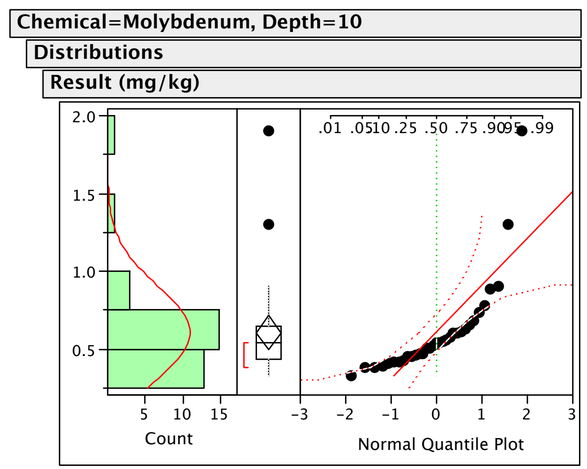


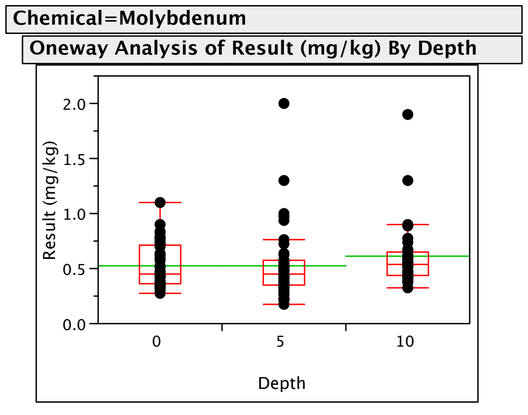
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









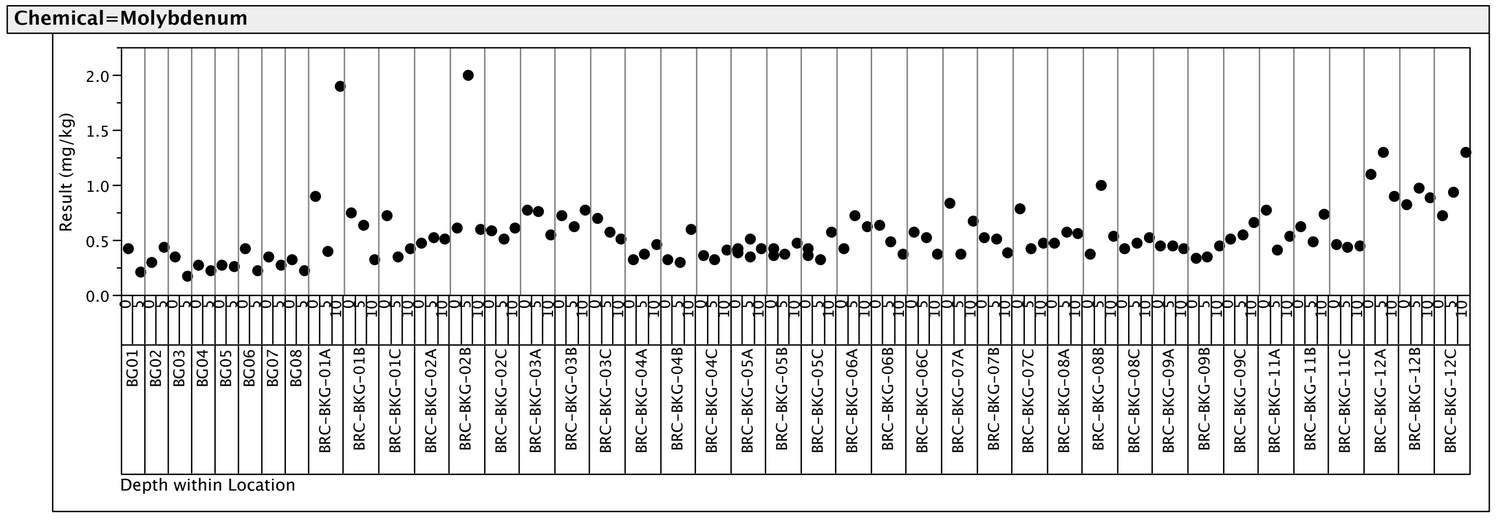
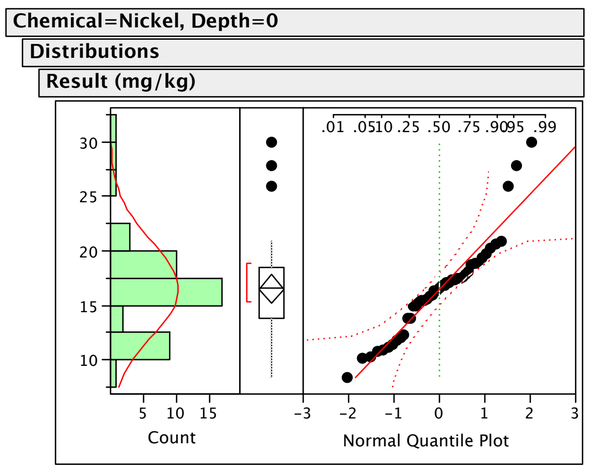
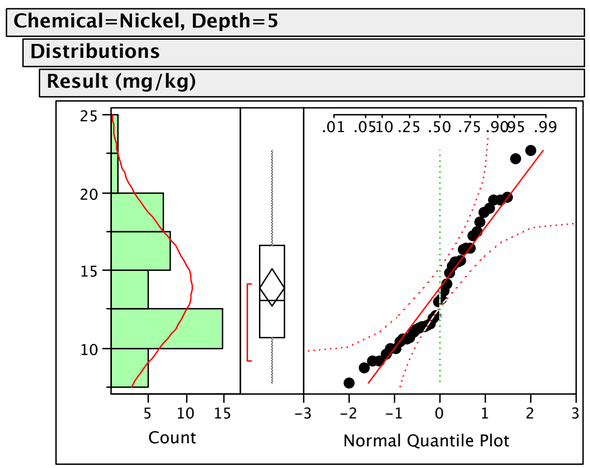
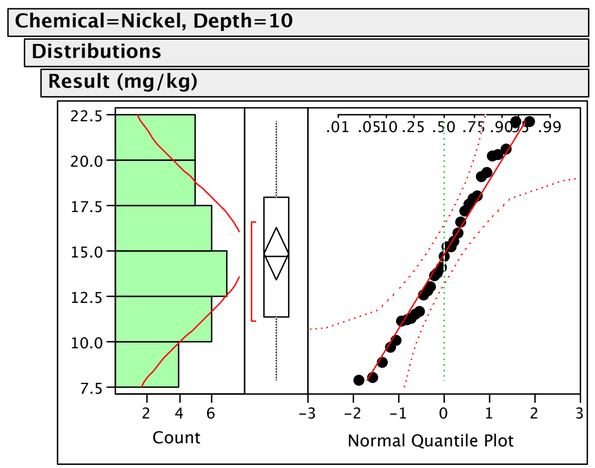


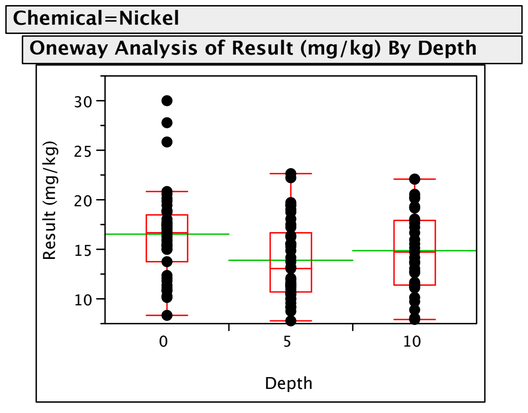
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









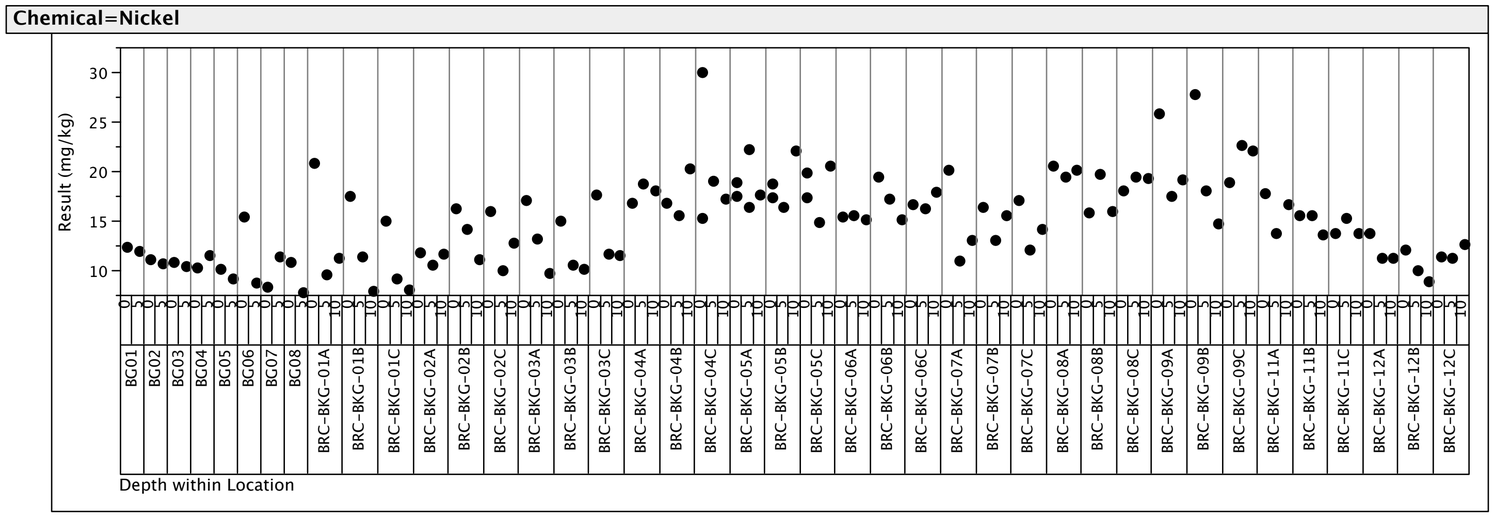
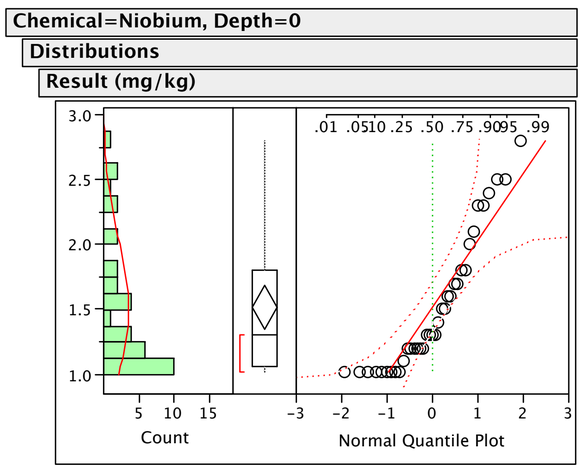
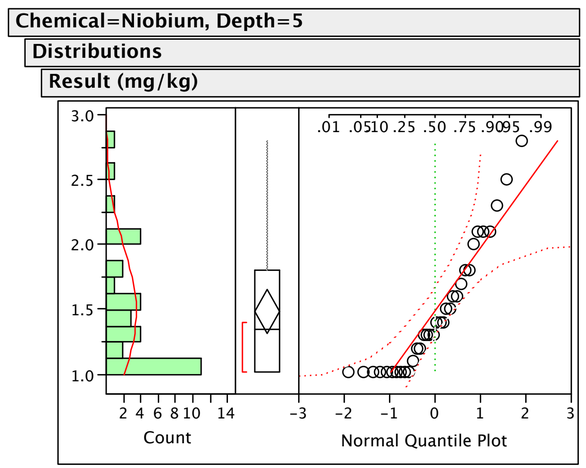
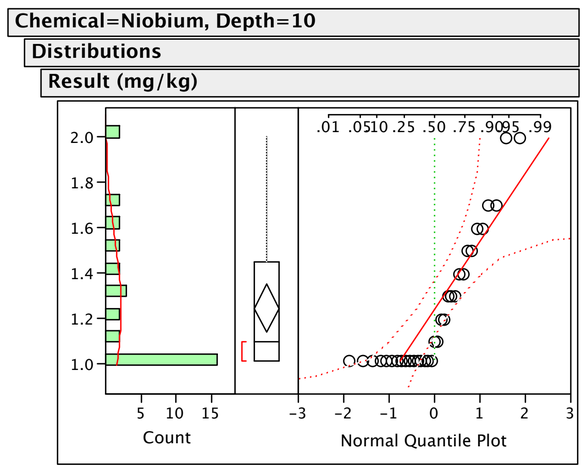


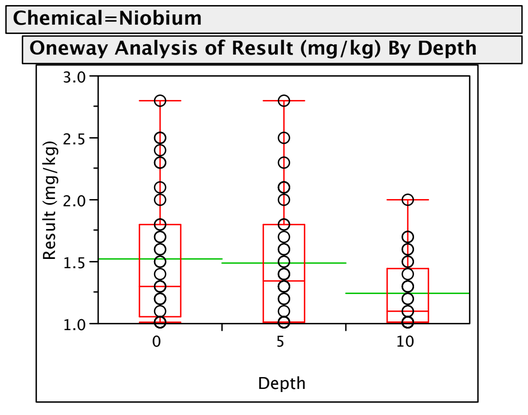
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









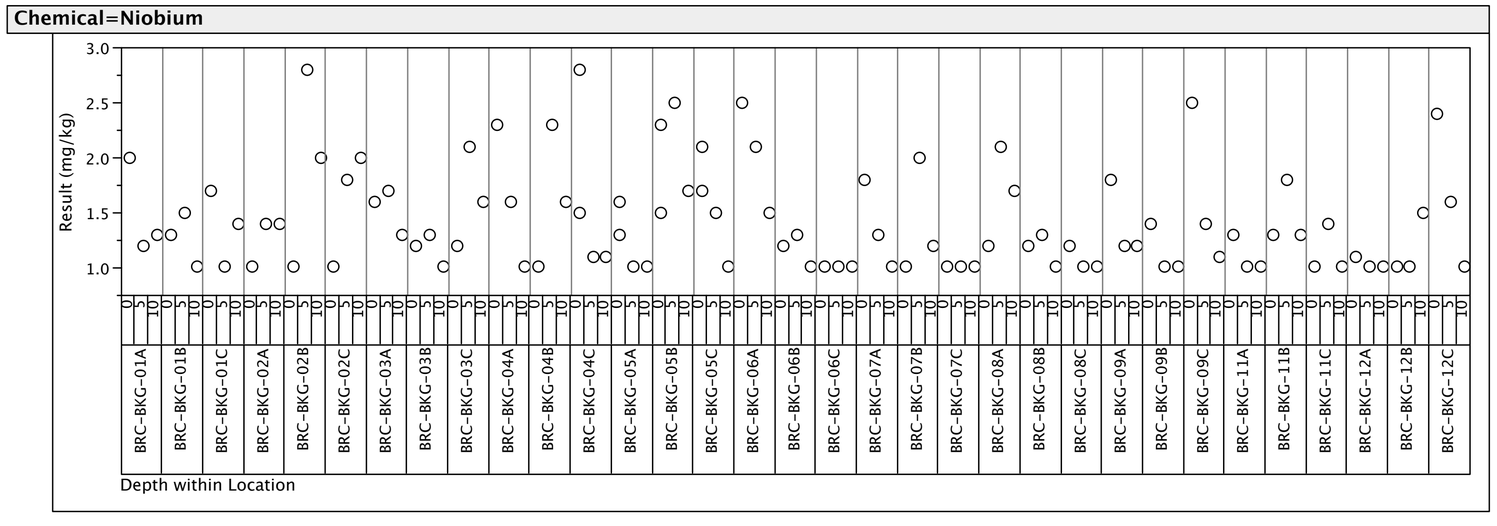
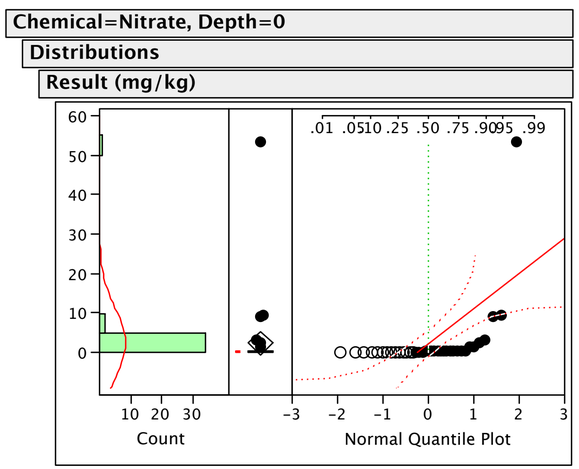
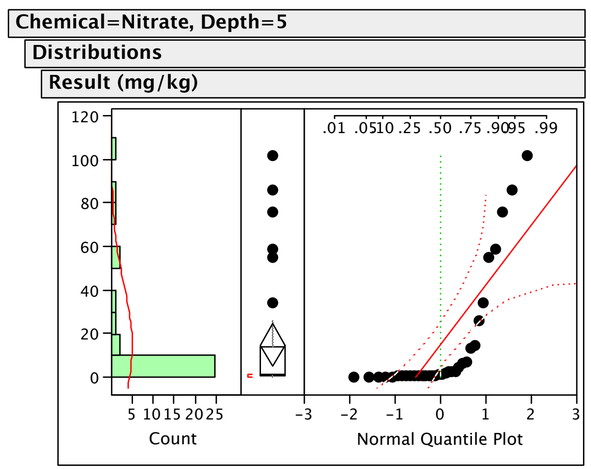
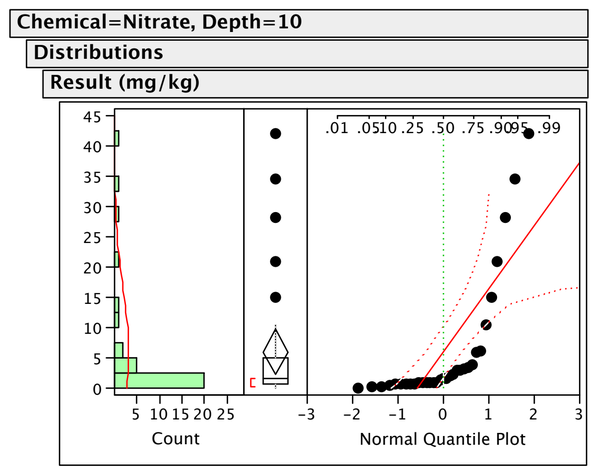


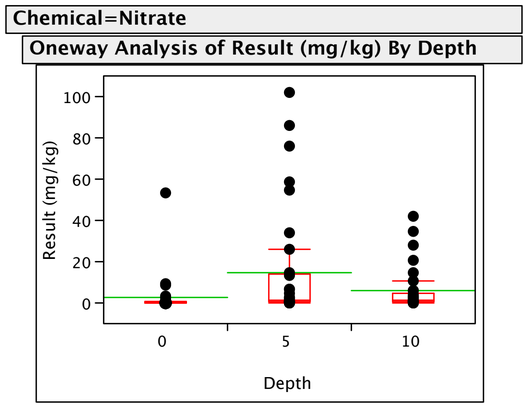
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









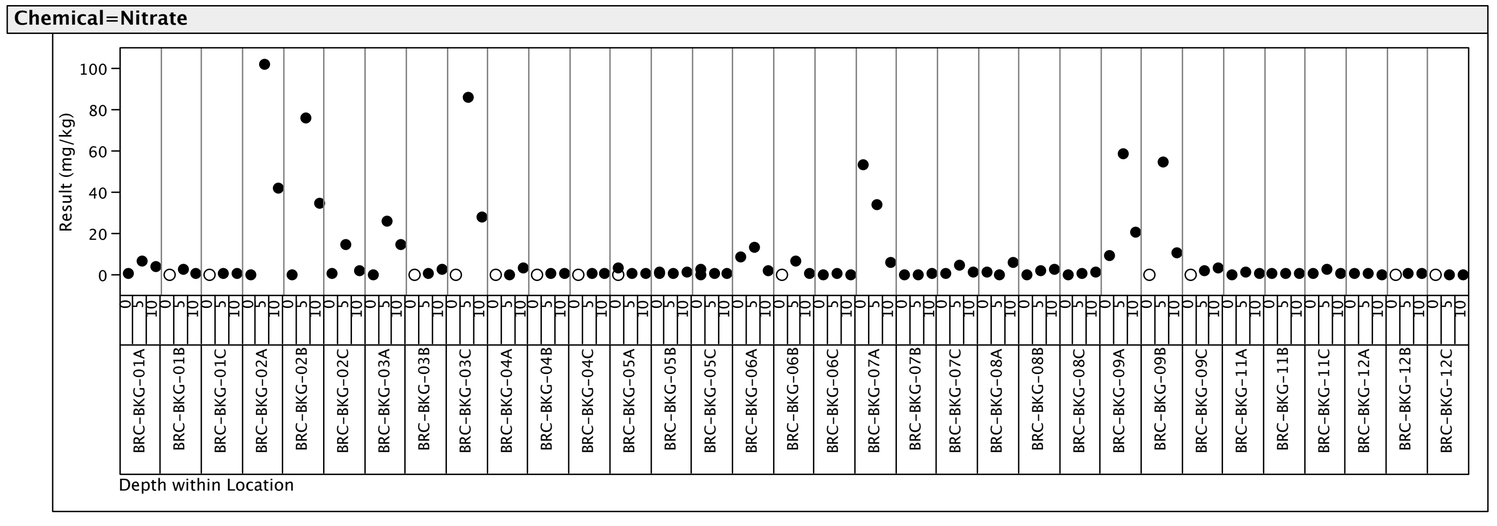
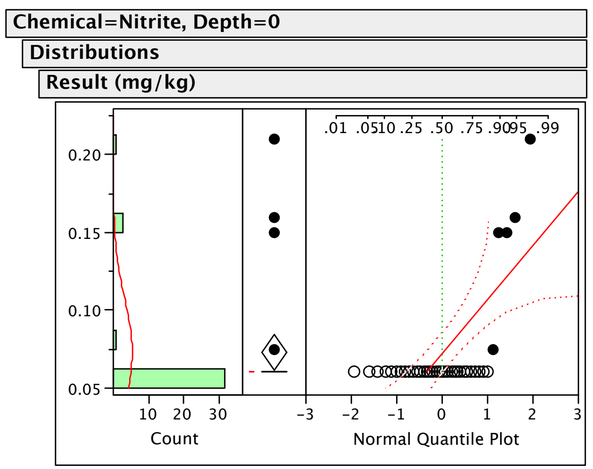
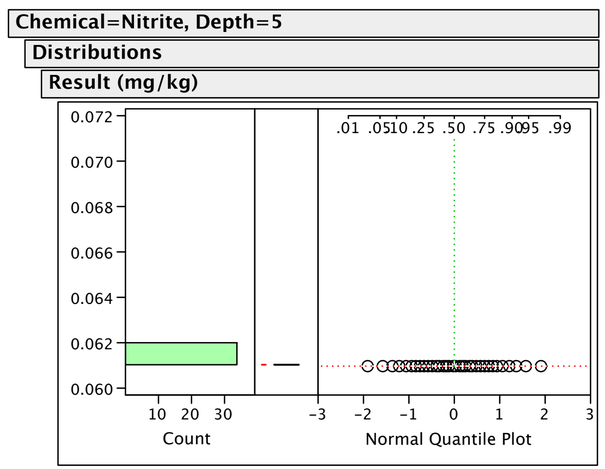
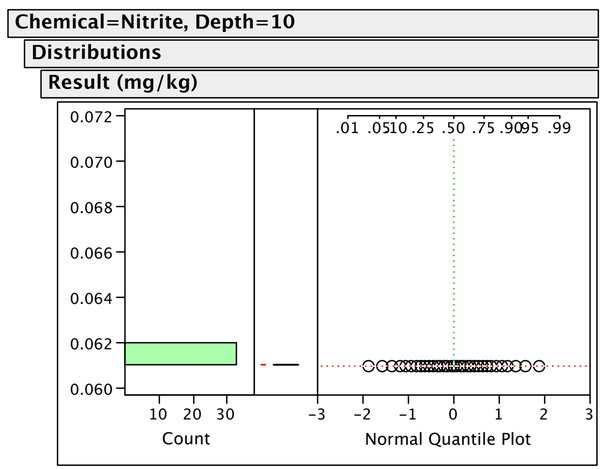


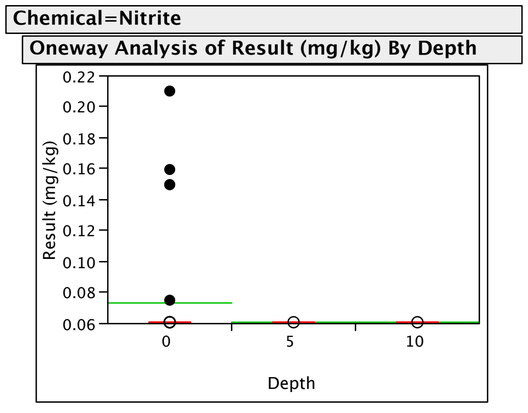
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









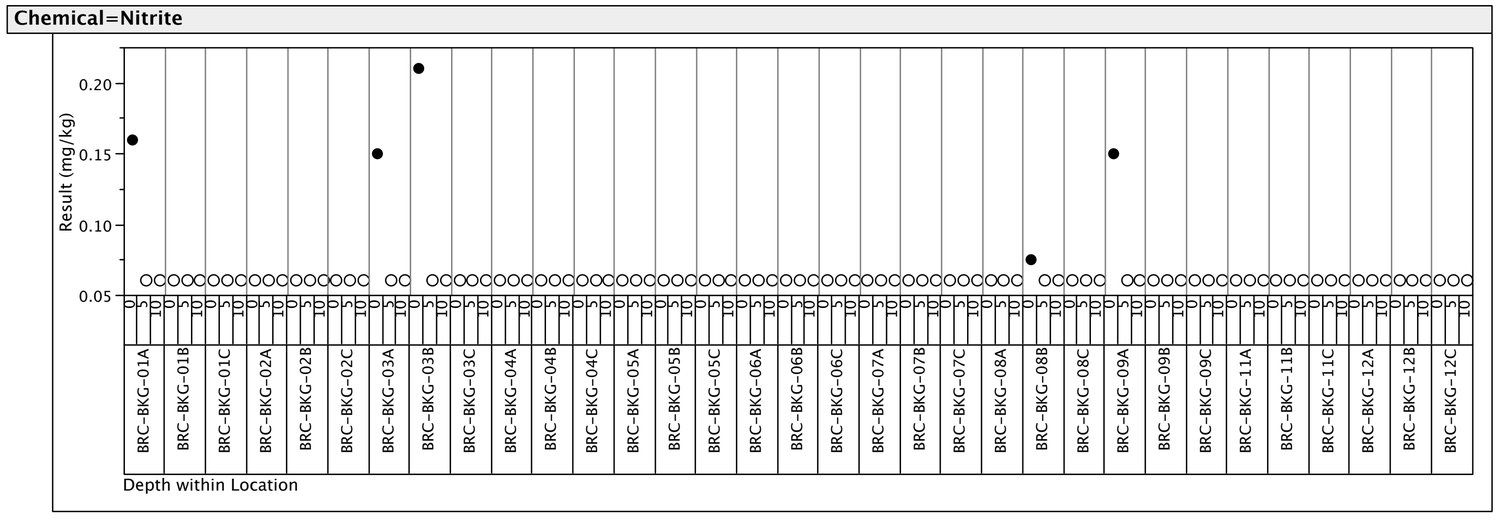
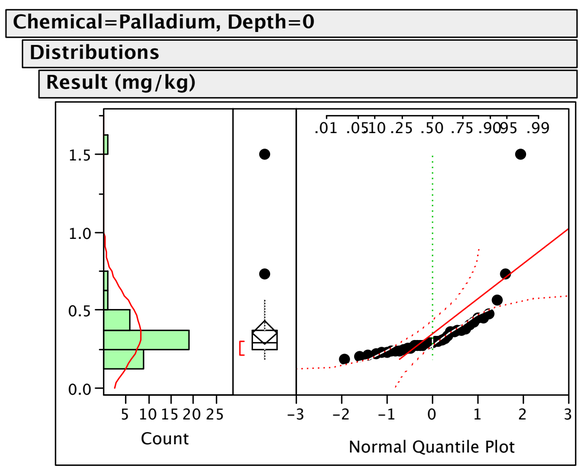
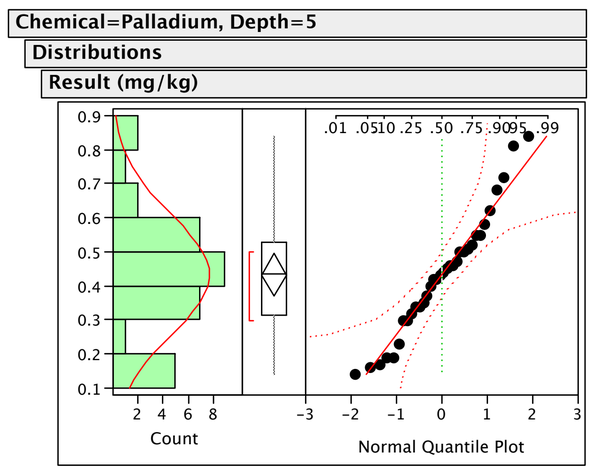
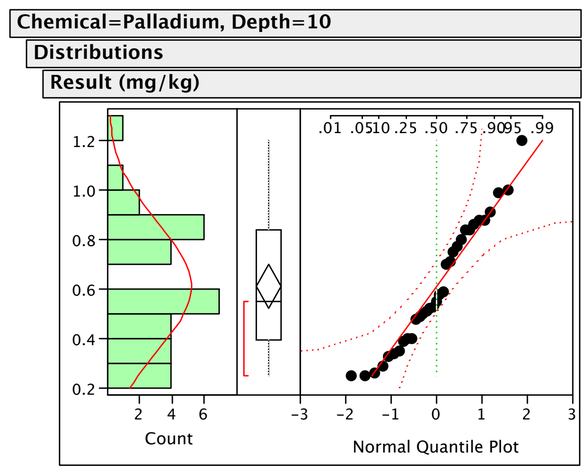


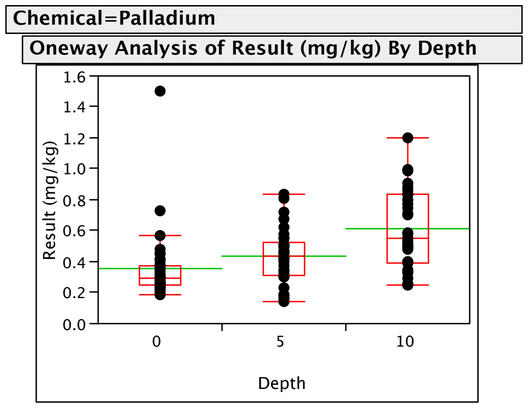
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









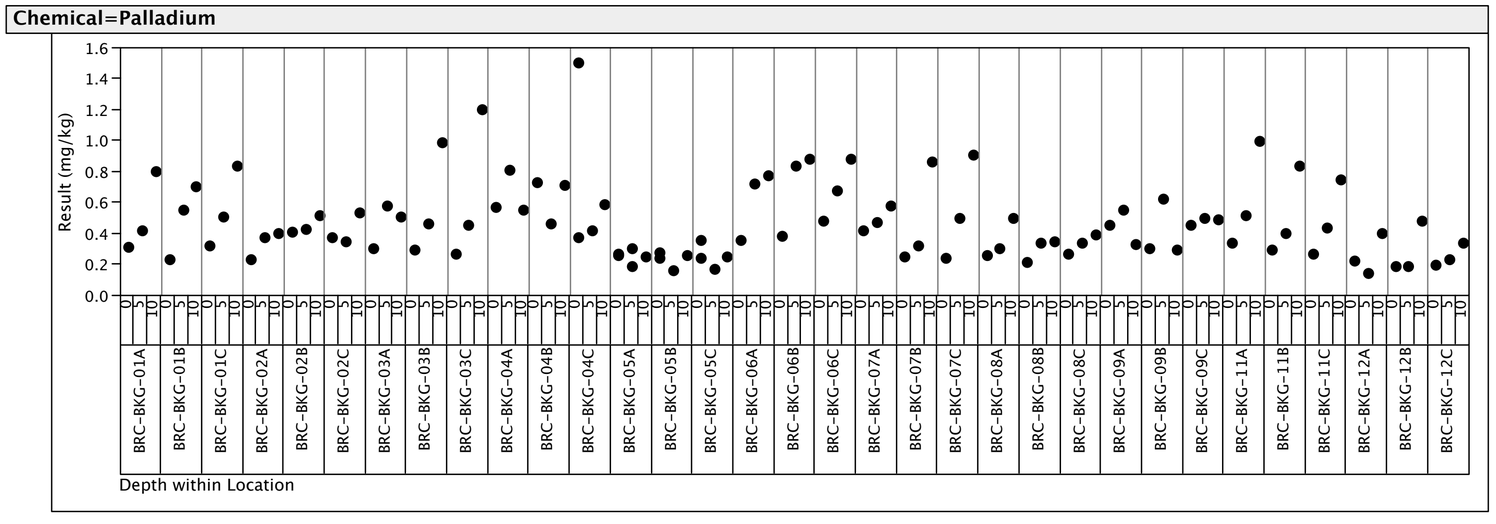
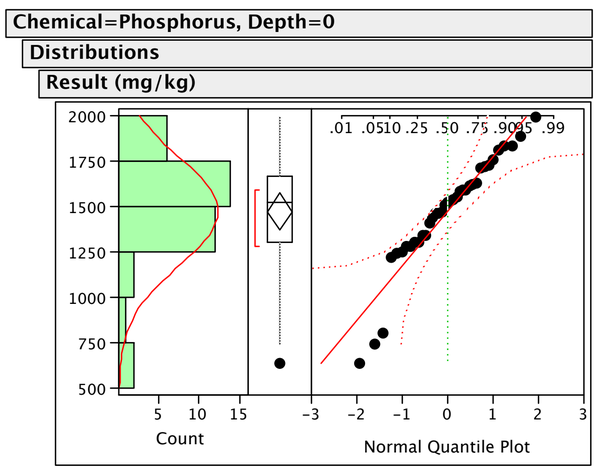
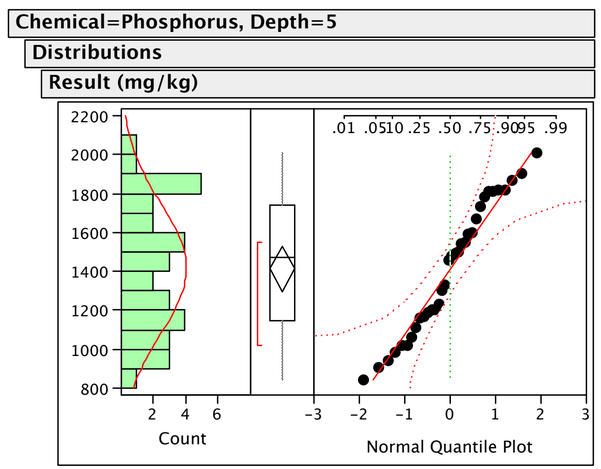
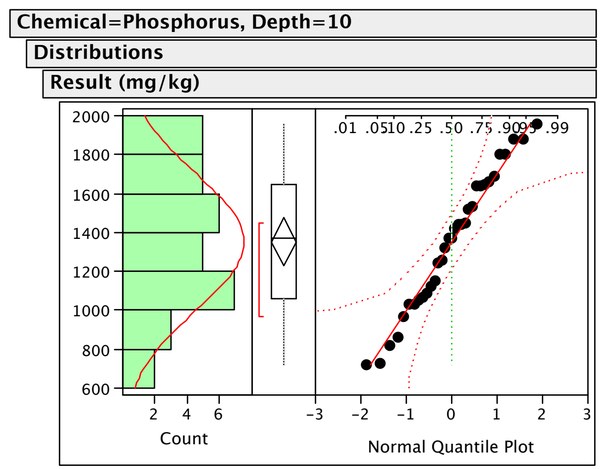


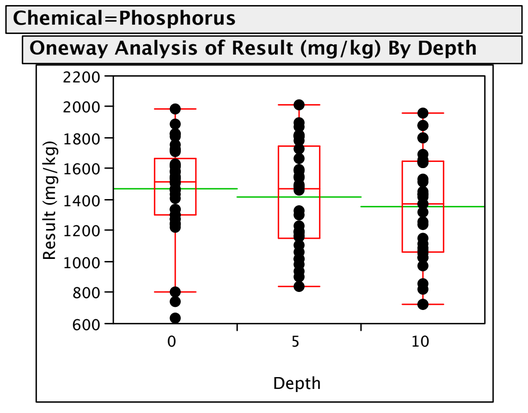
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









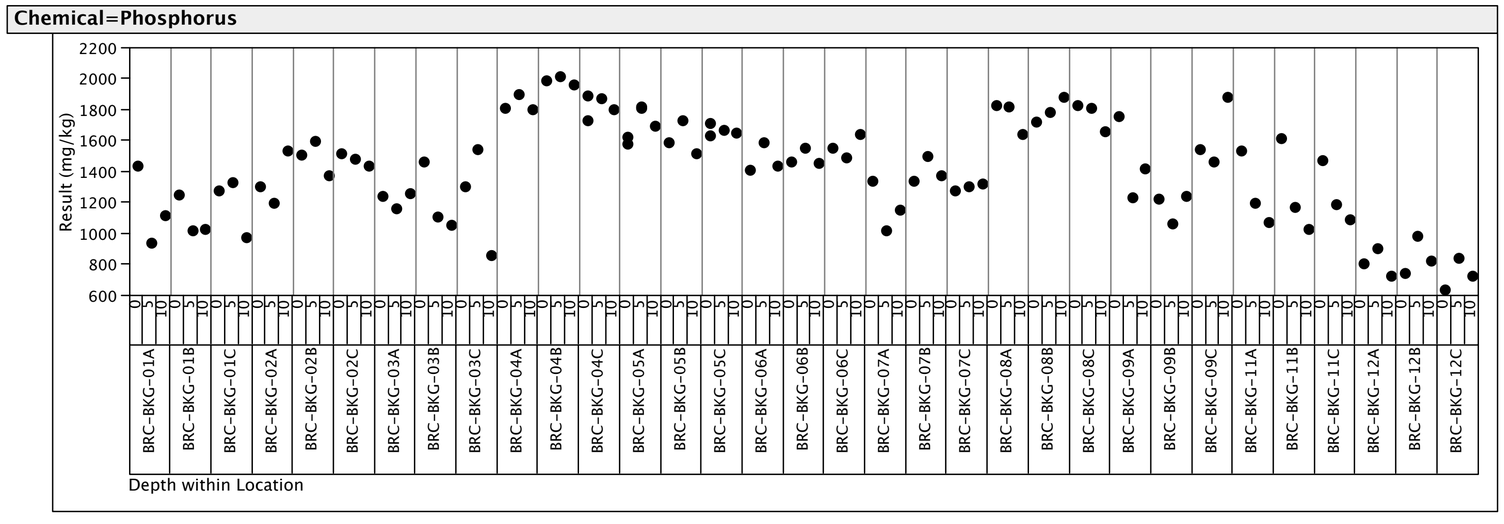
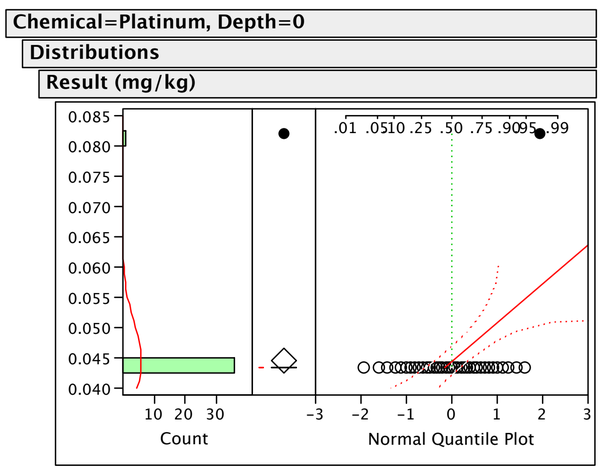
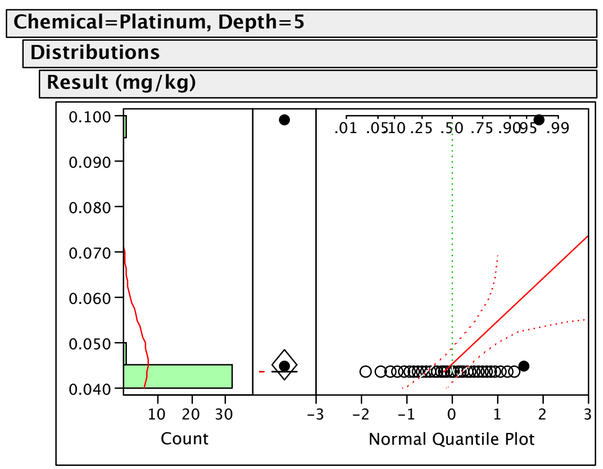
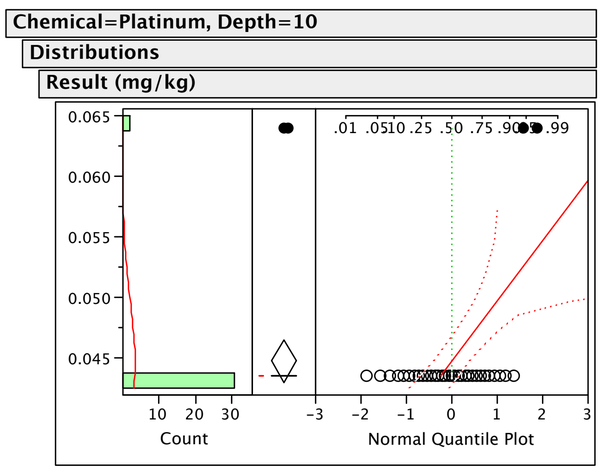


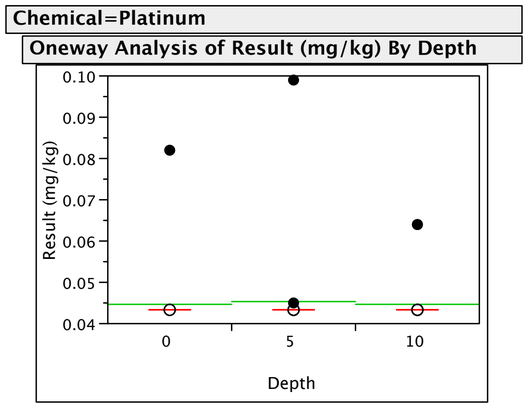
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









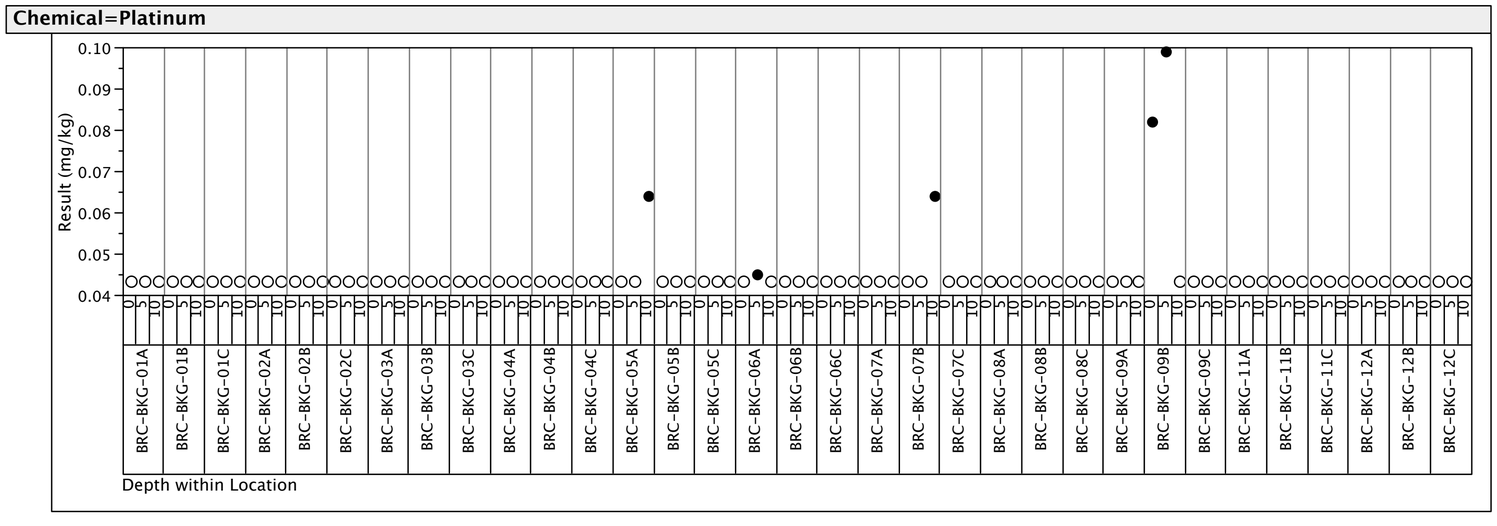
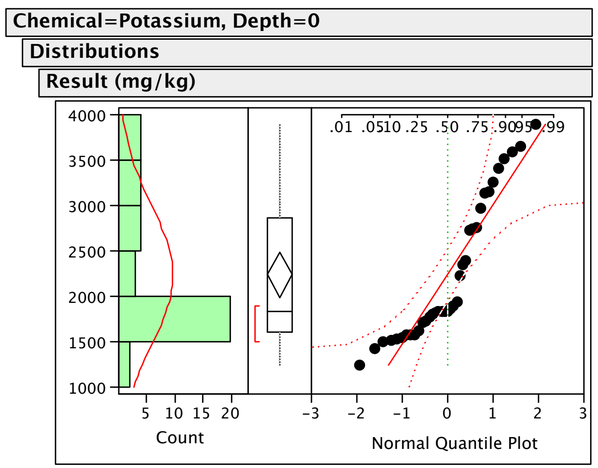
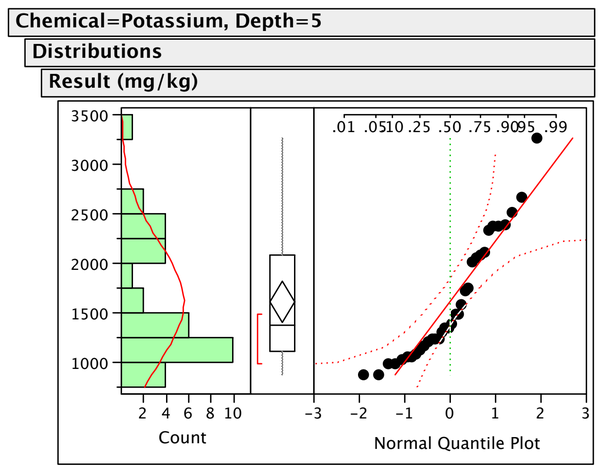
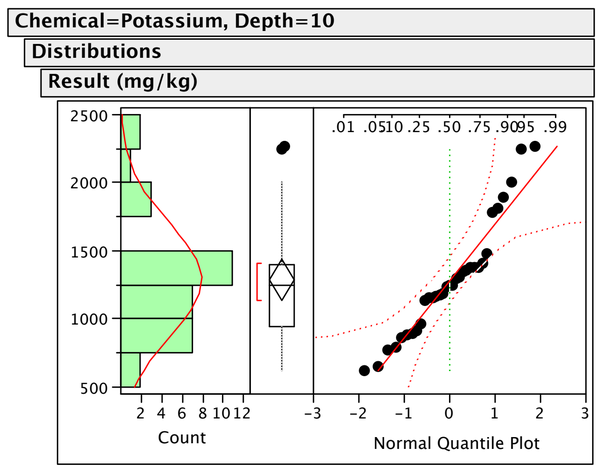


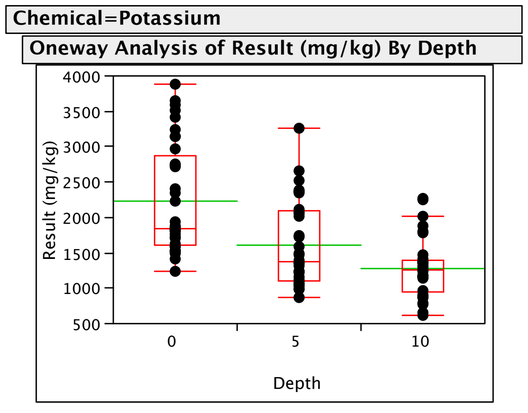
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









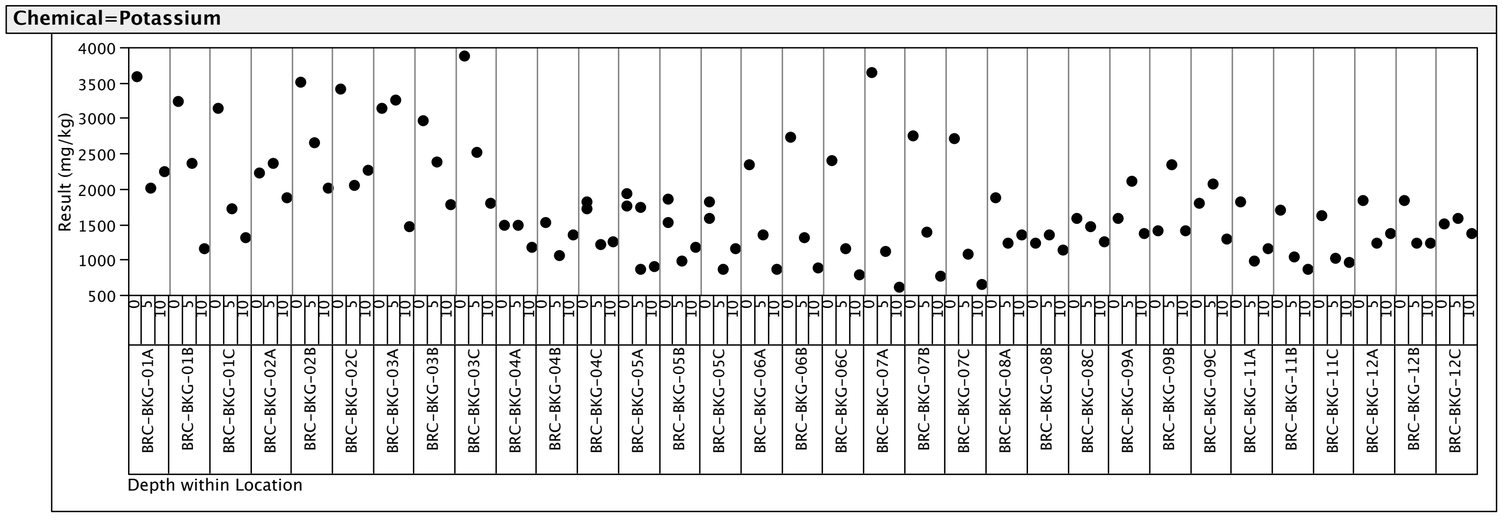
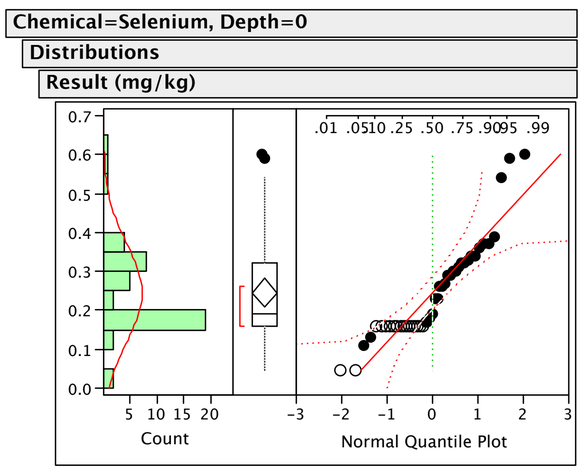
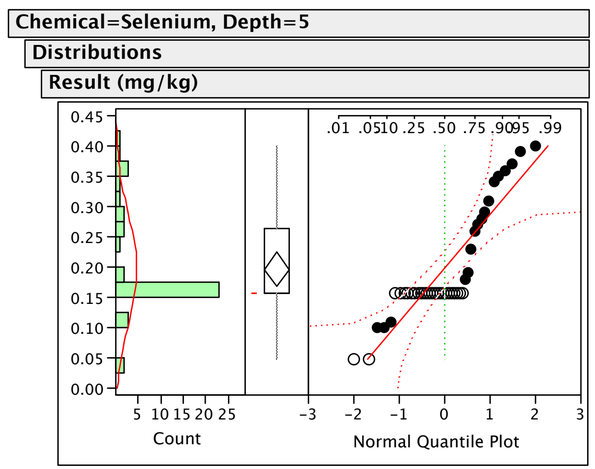
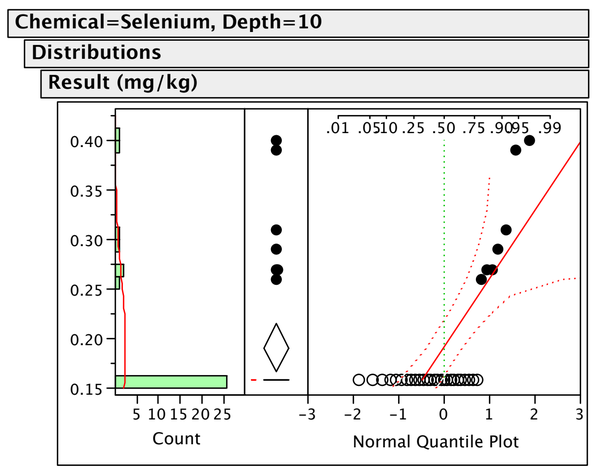


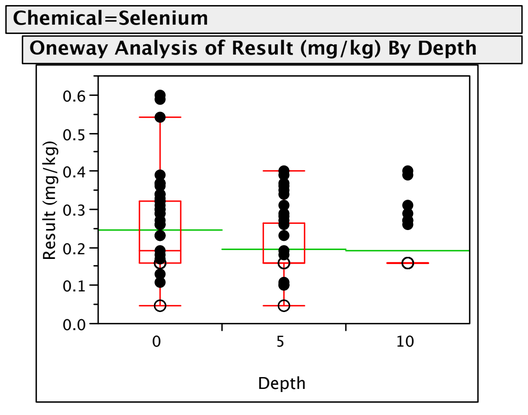
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









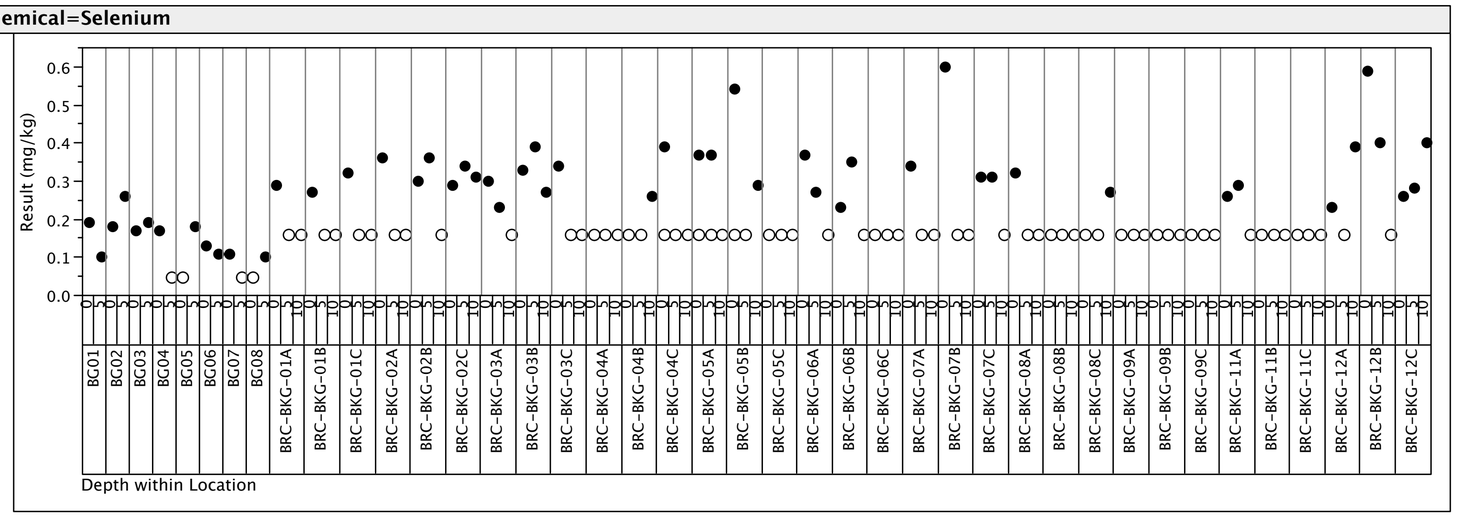
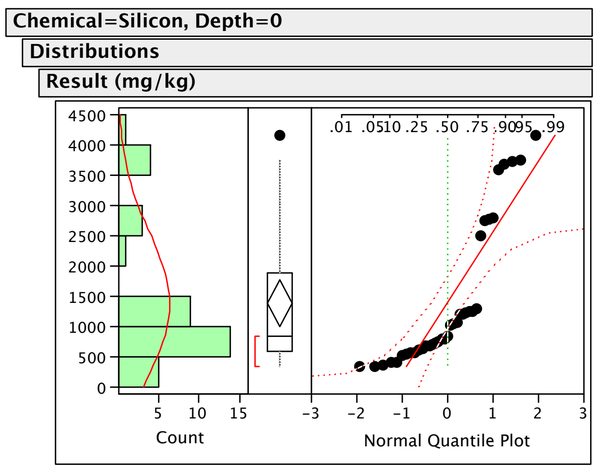
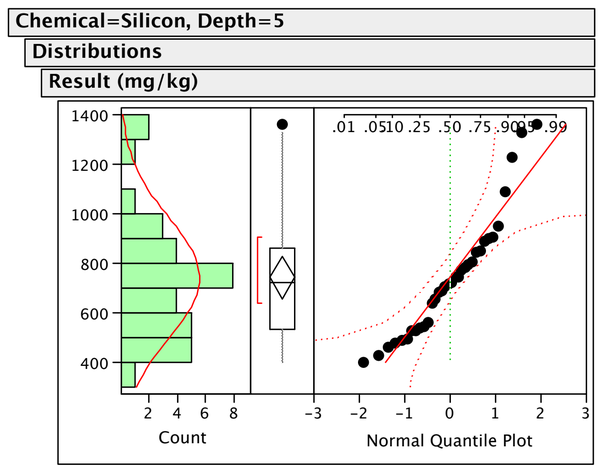
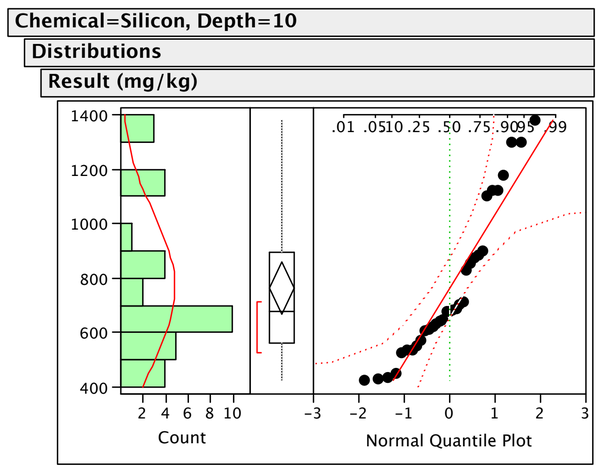


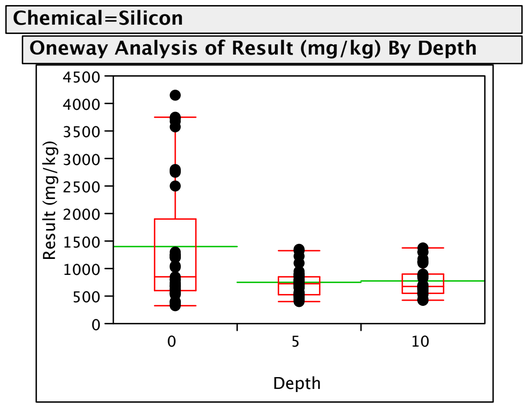
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









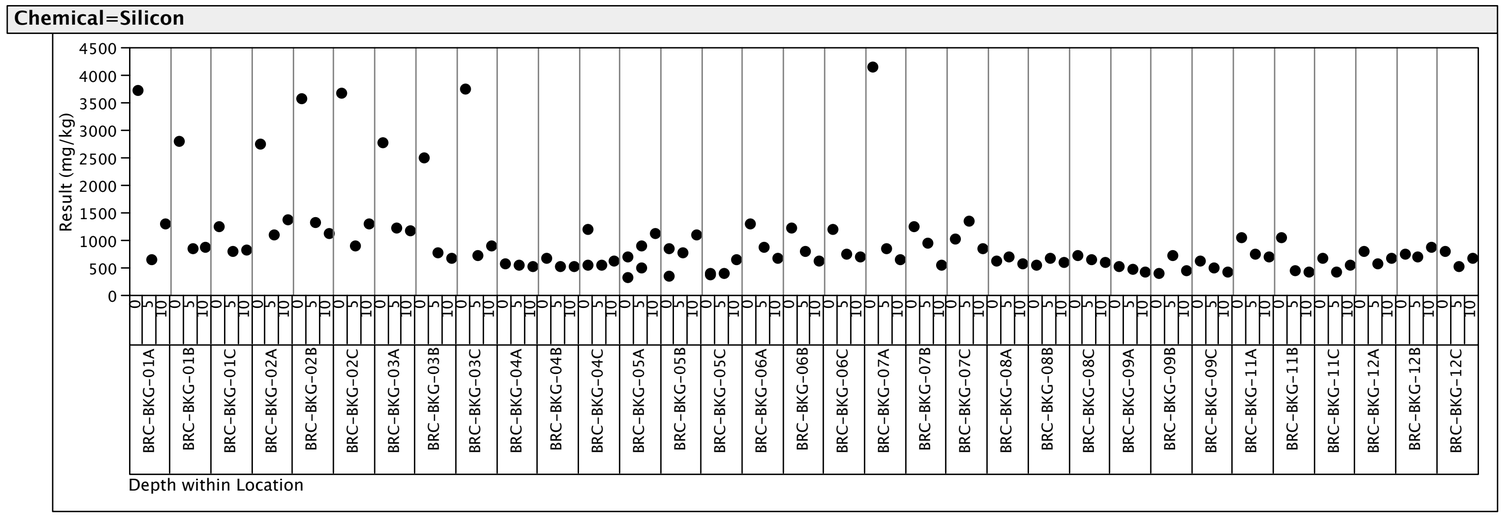
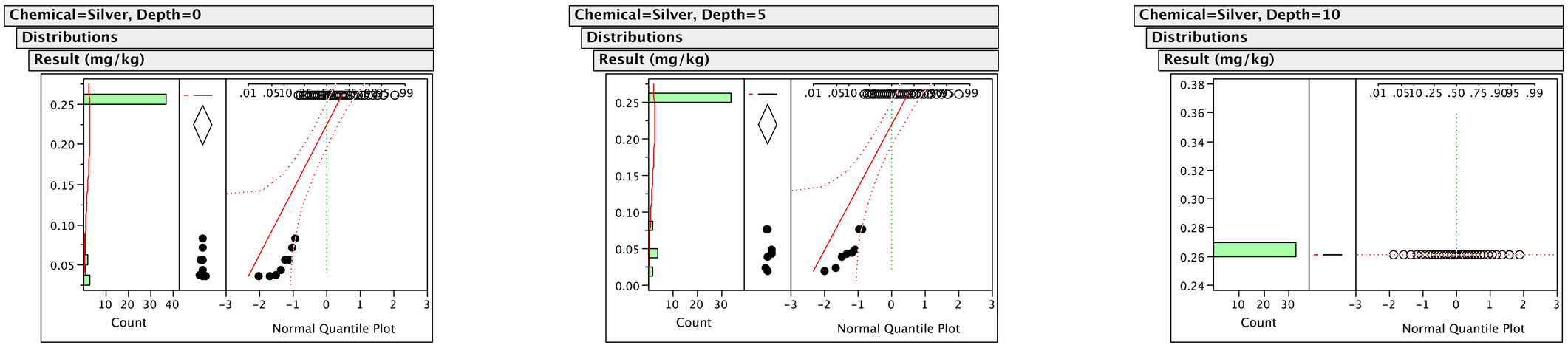
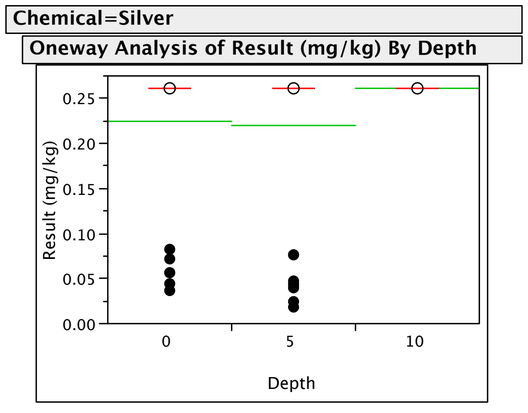


FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





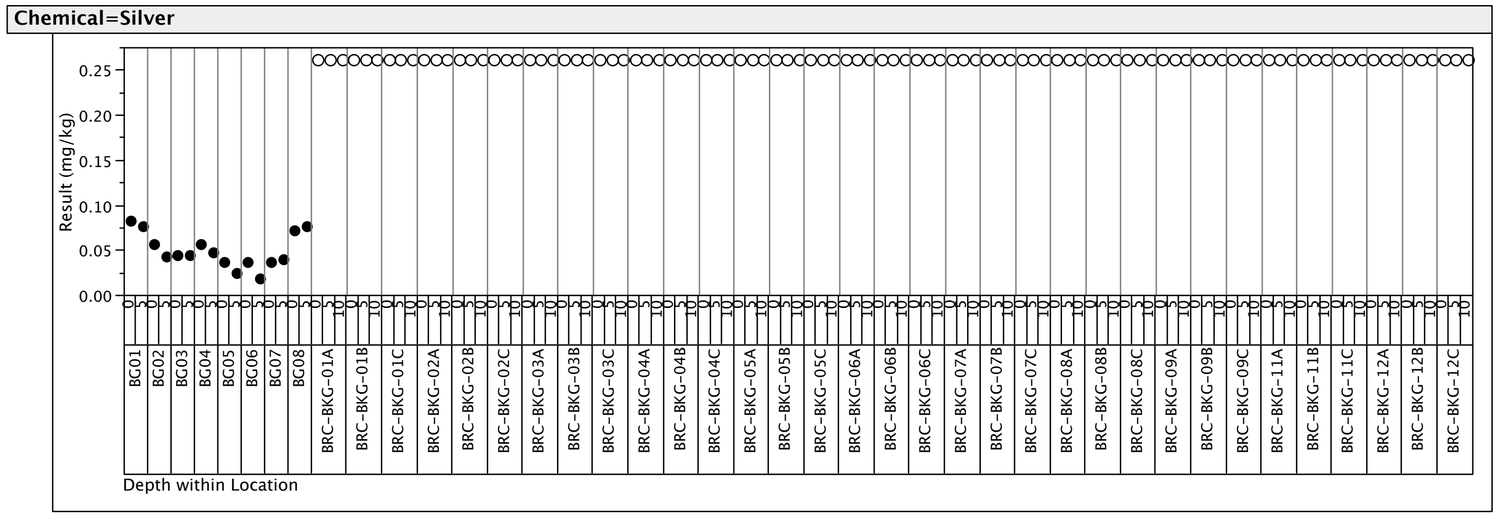
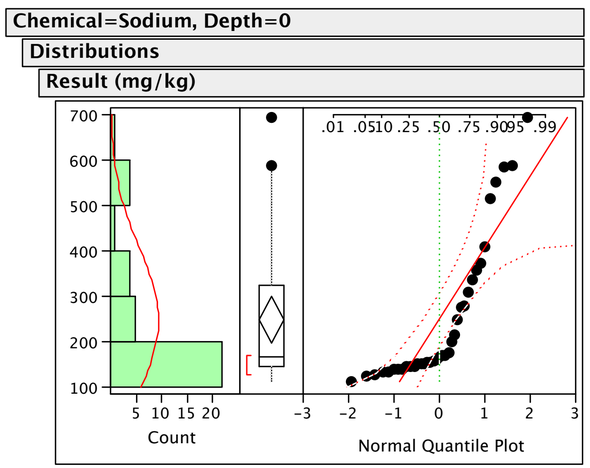
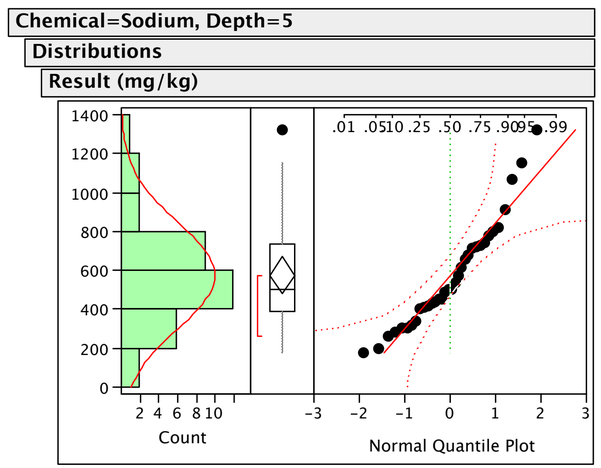
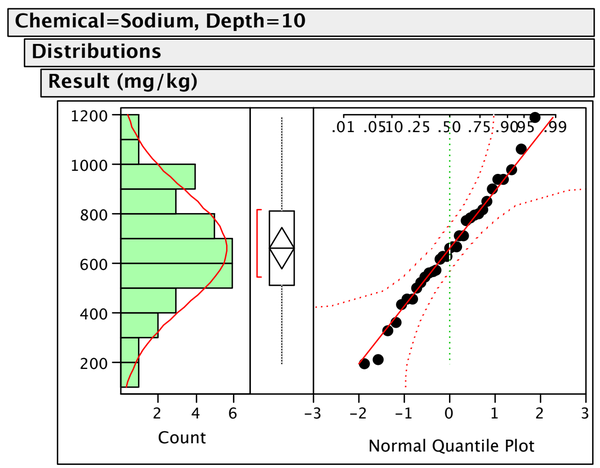


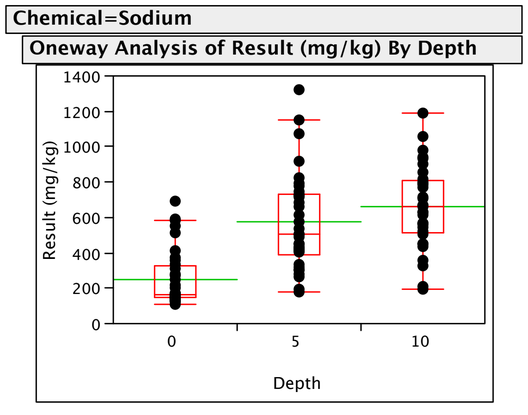
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









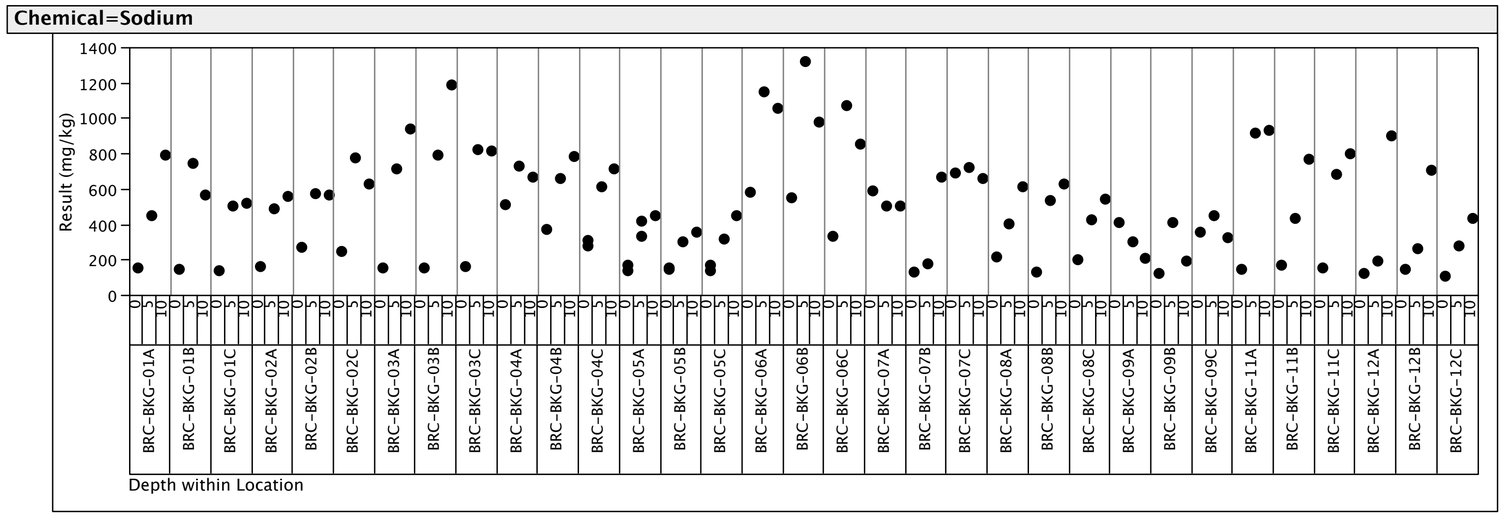
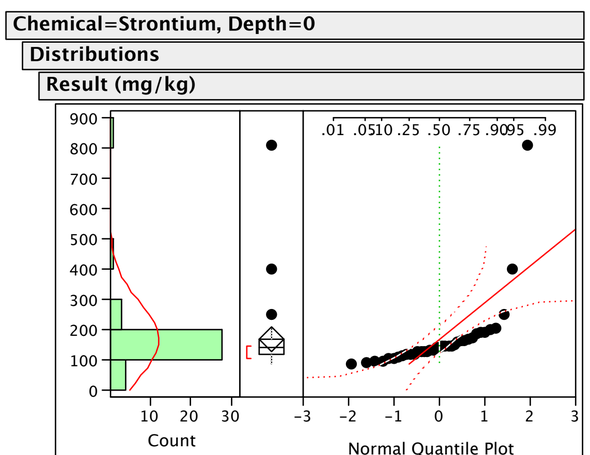
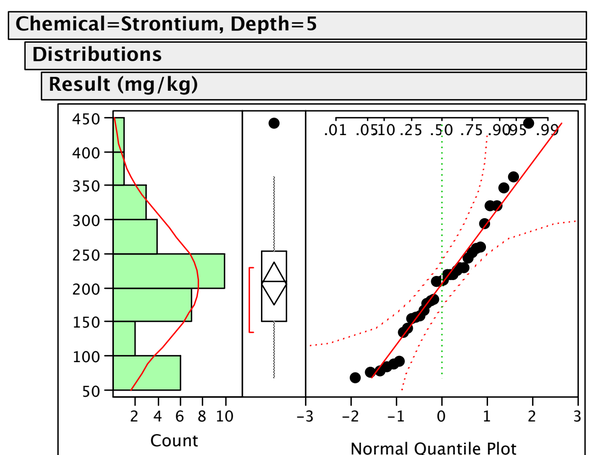
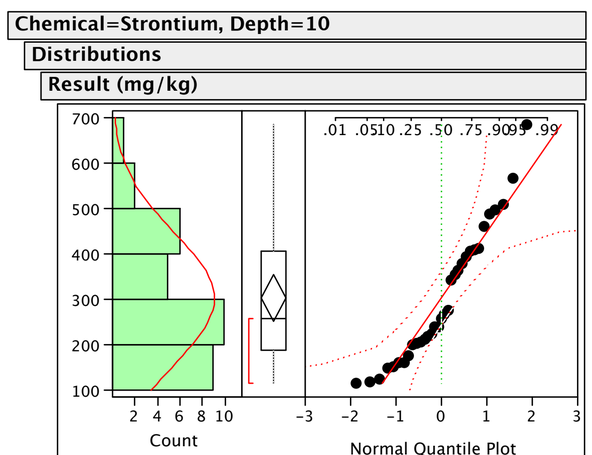


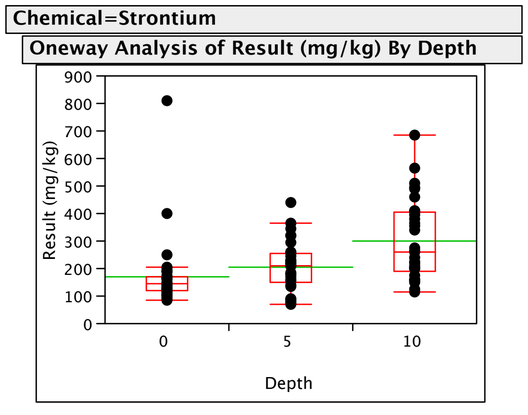
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









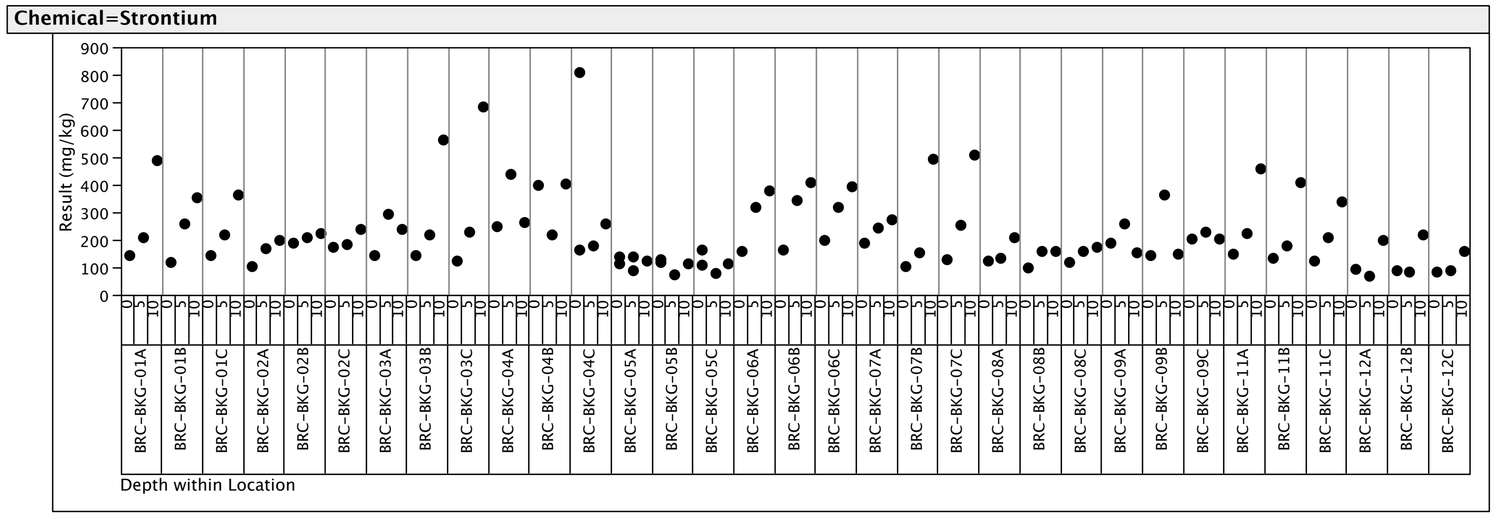
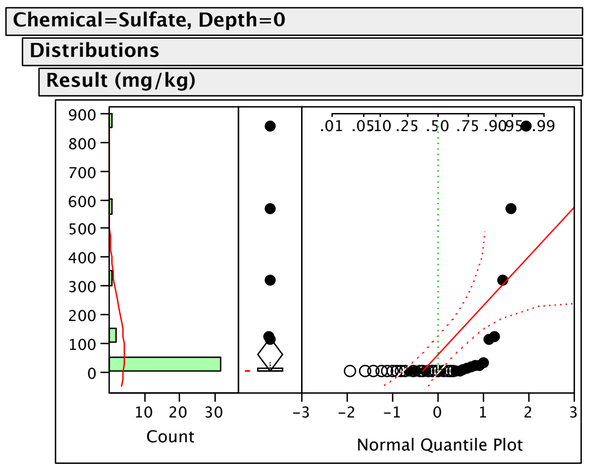
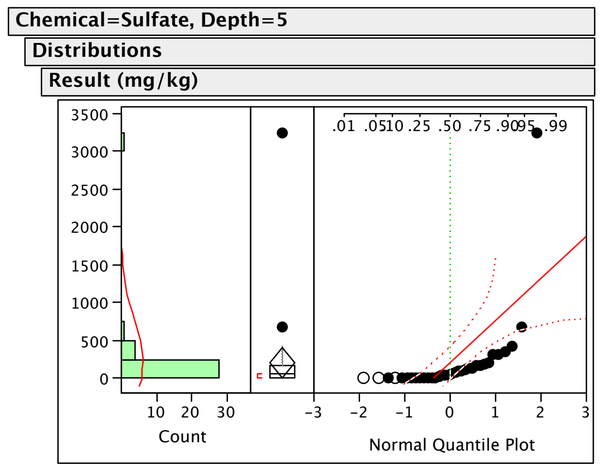
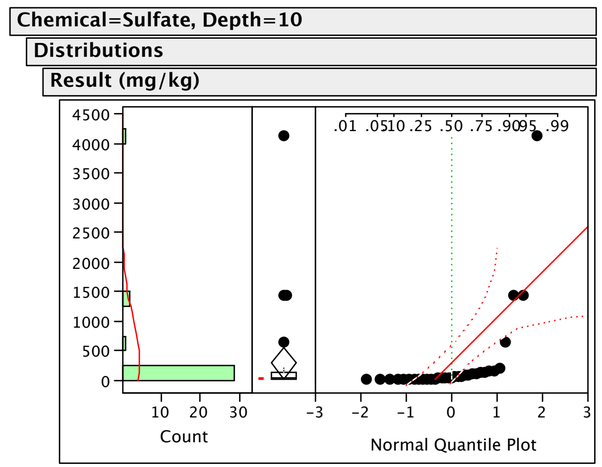


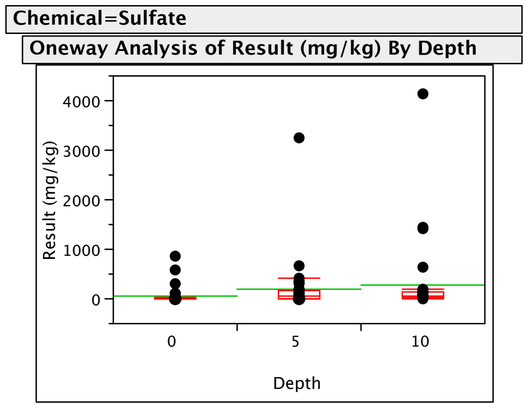
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









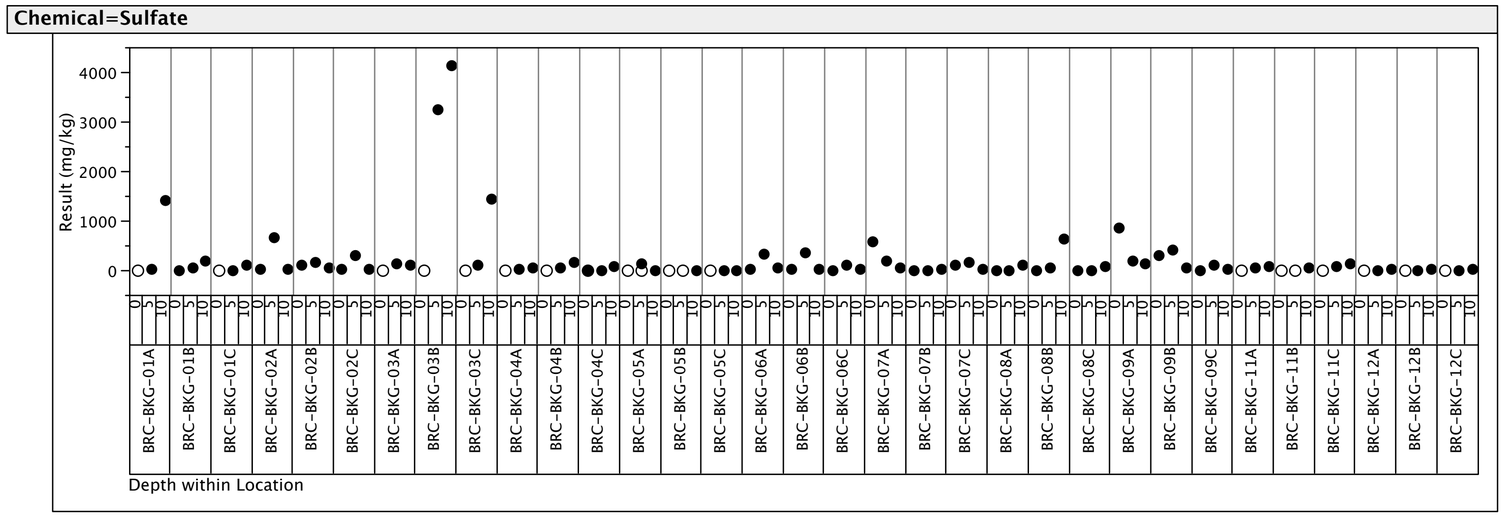
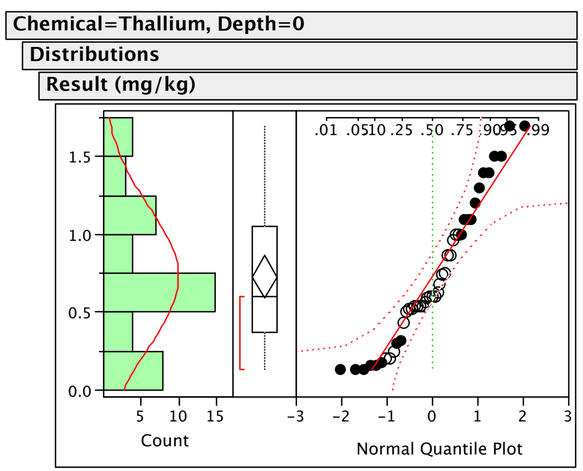
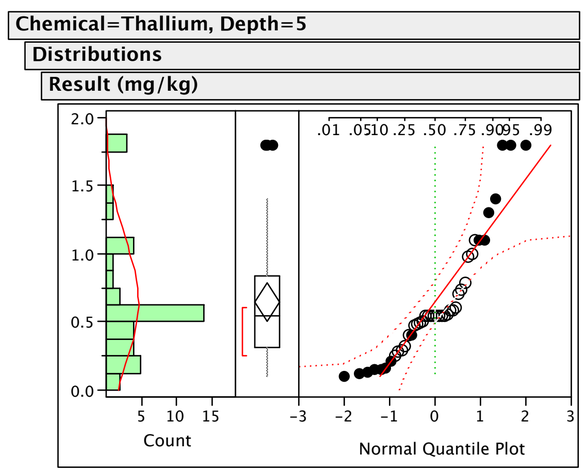
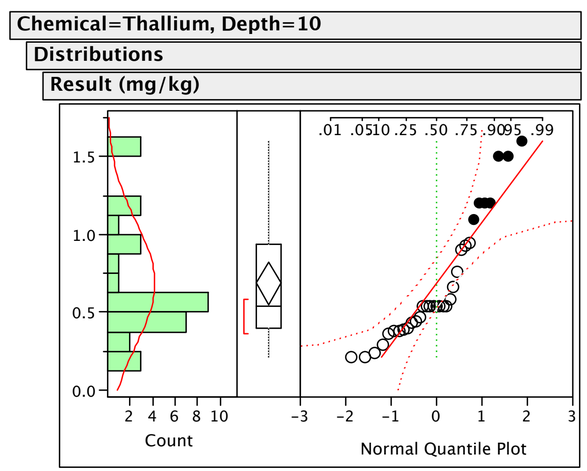


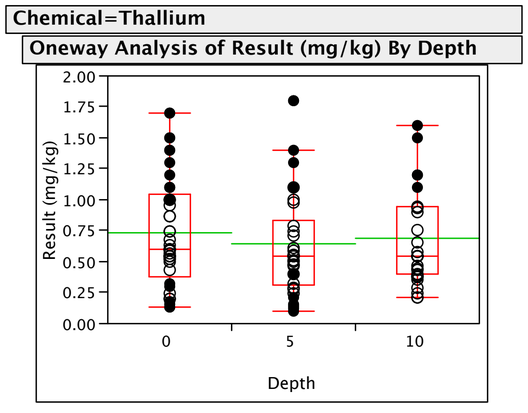
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









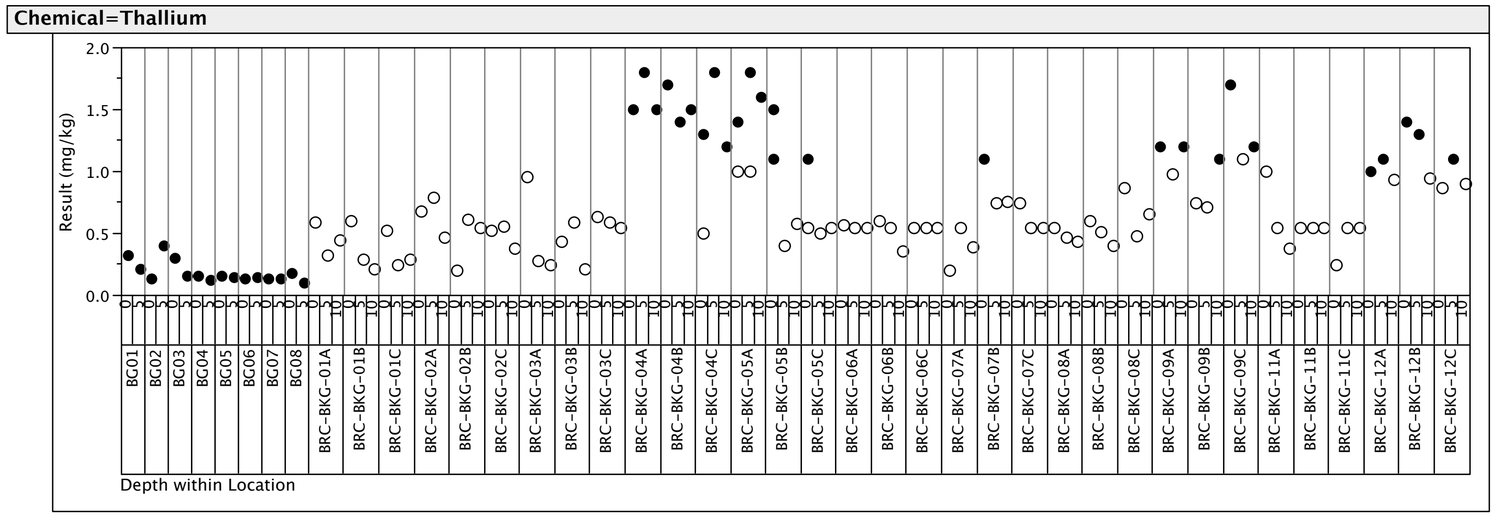
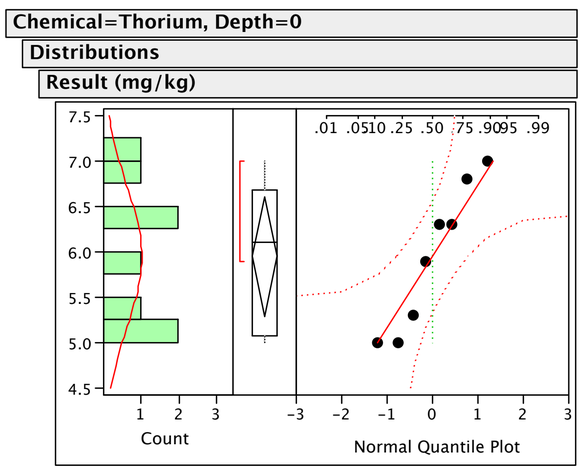
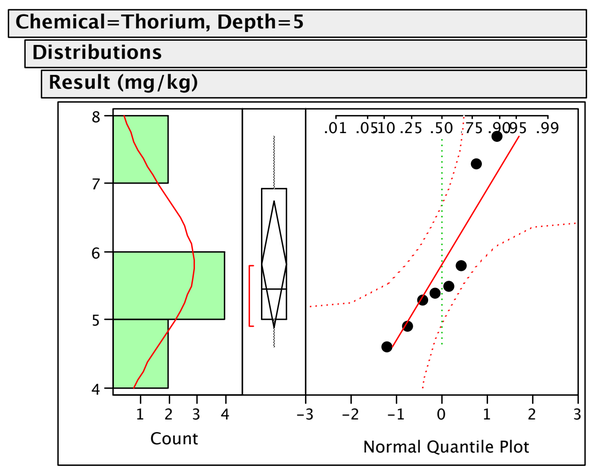
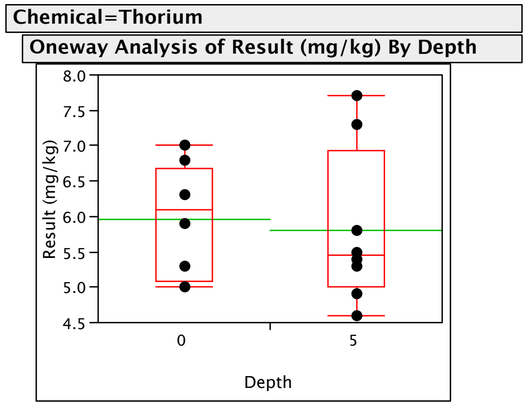


FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH







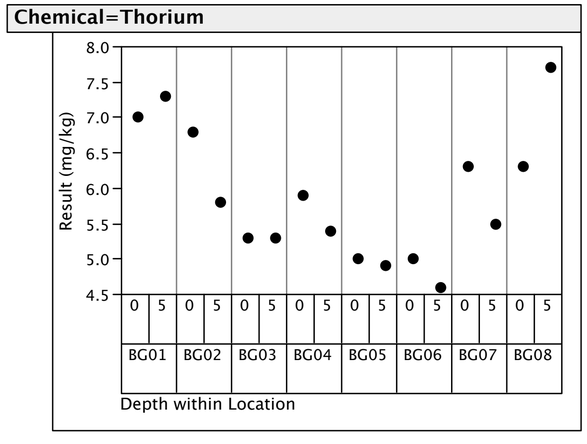
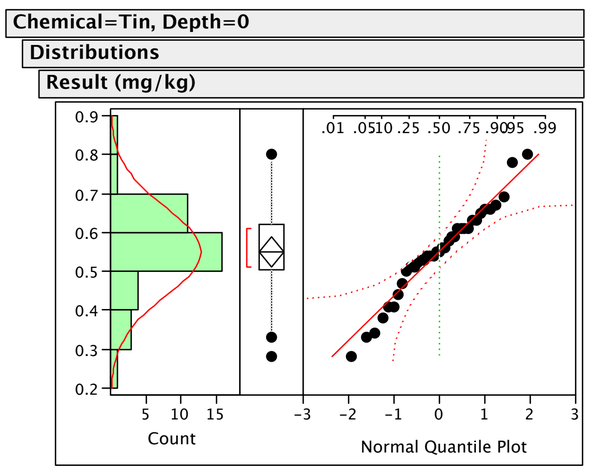
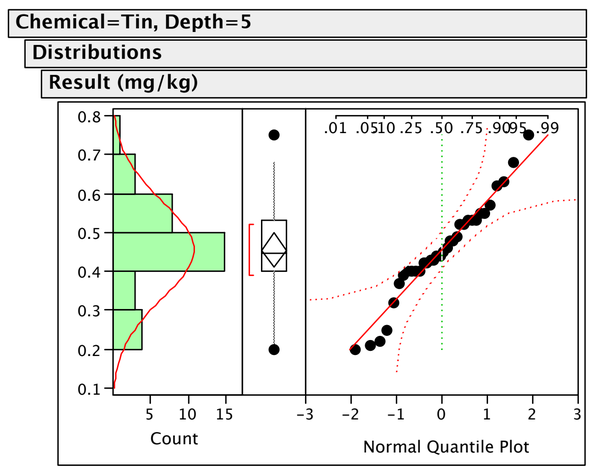
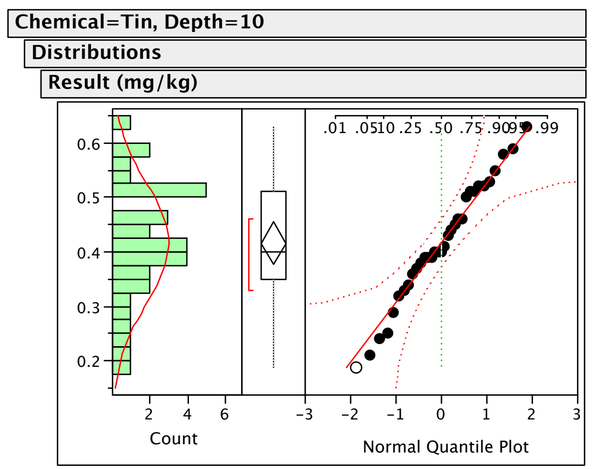


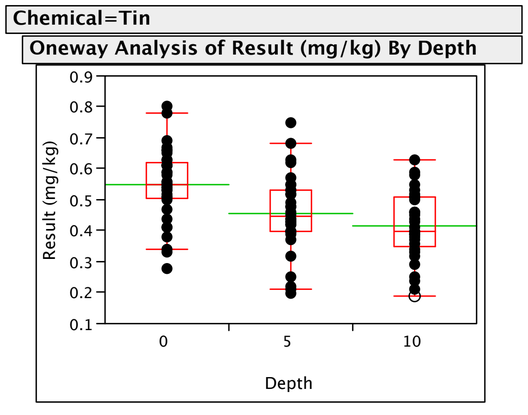
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









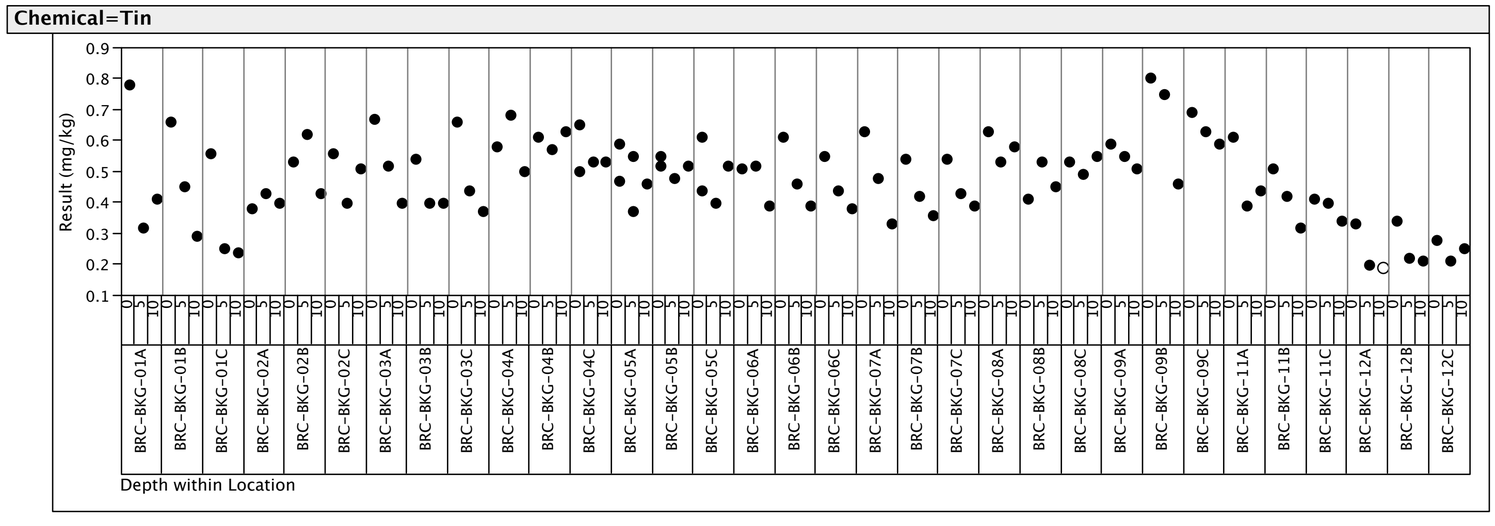
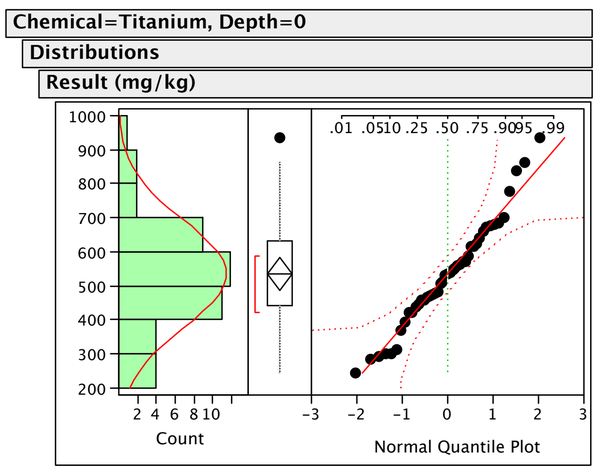
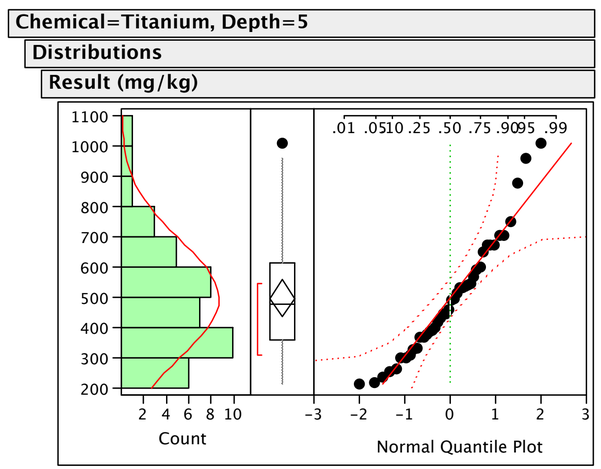
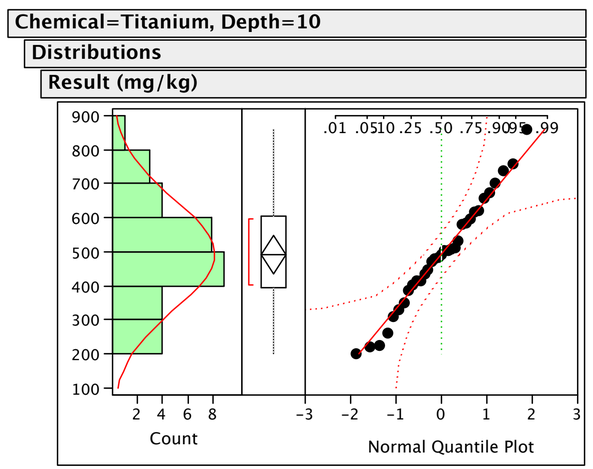


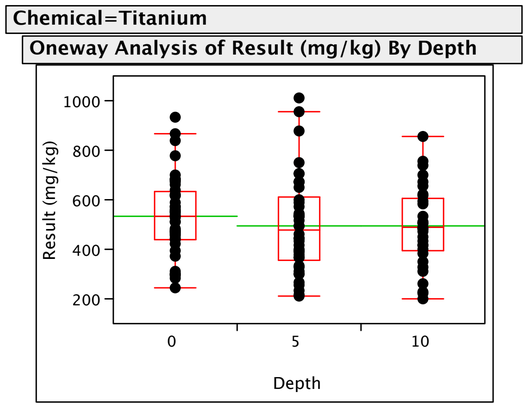
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









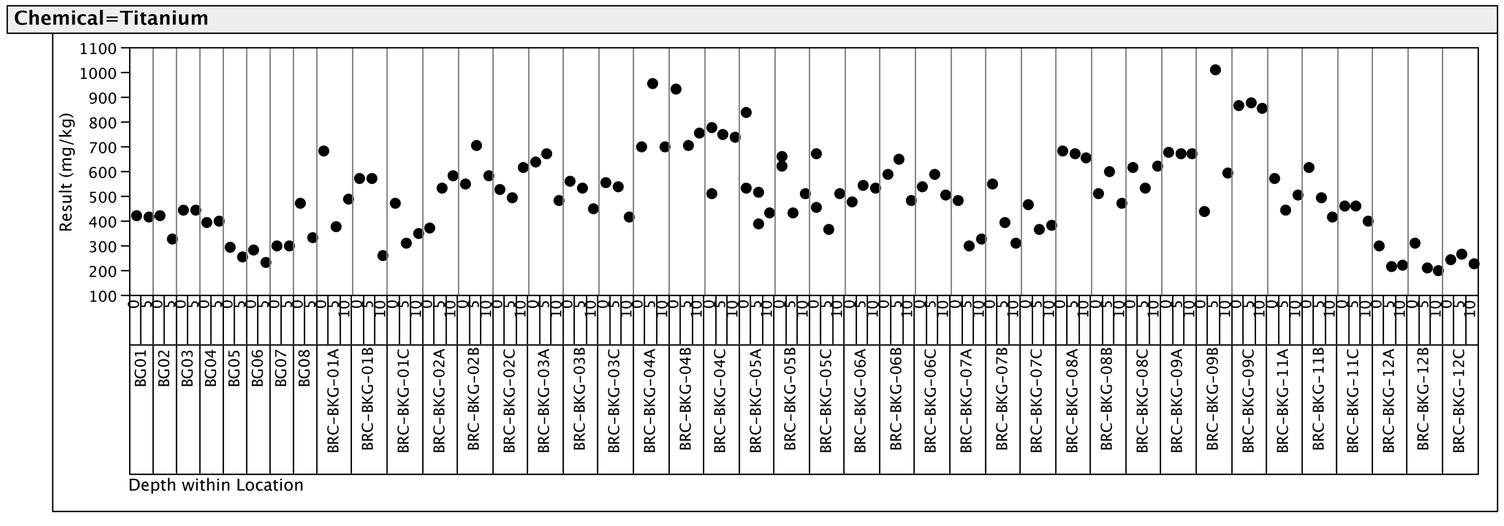
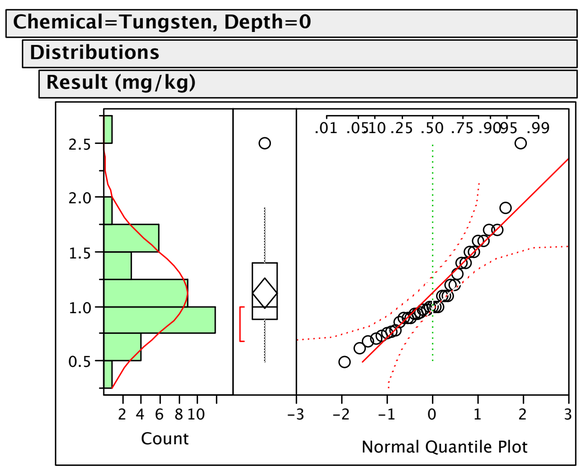
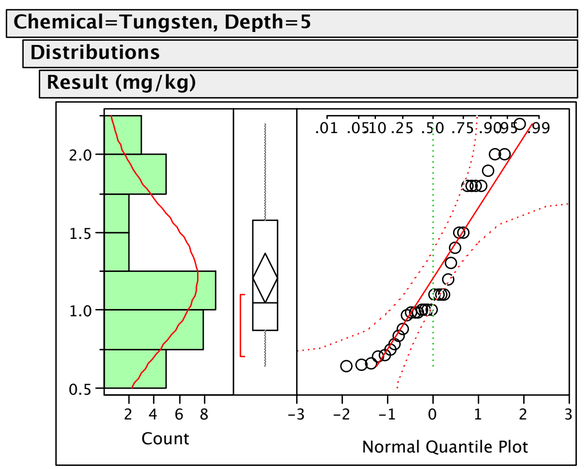
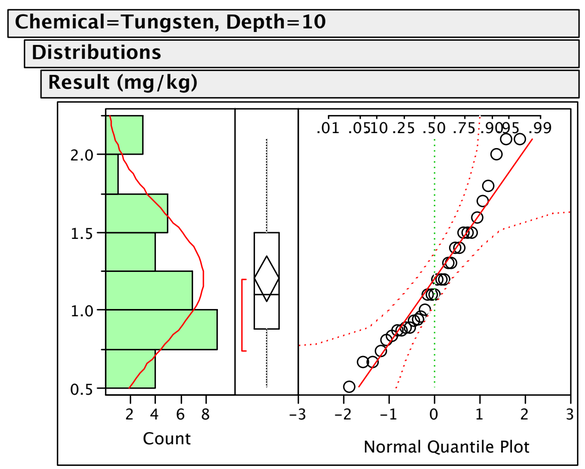


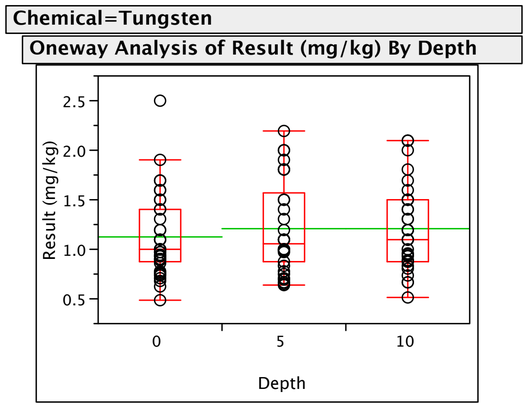
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









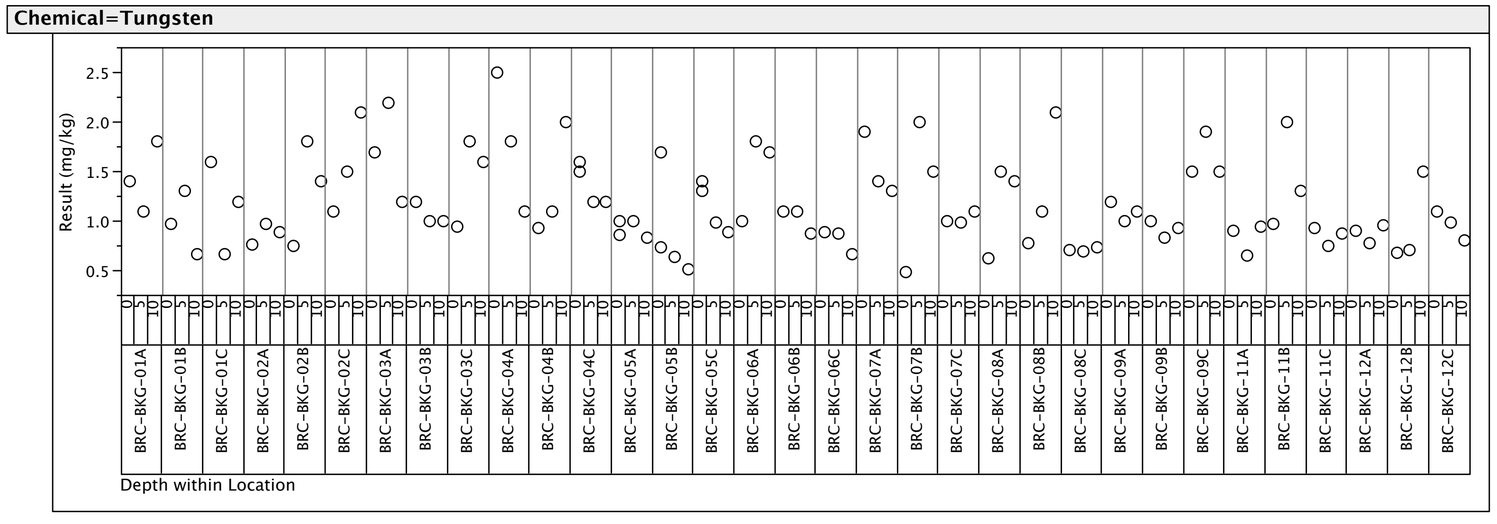
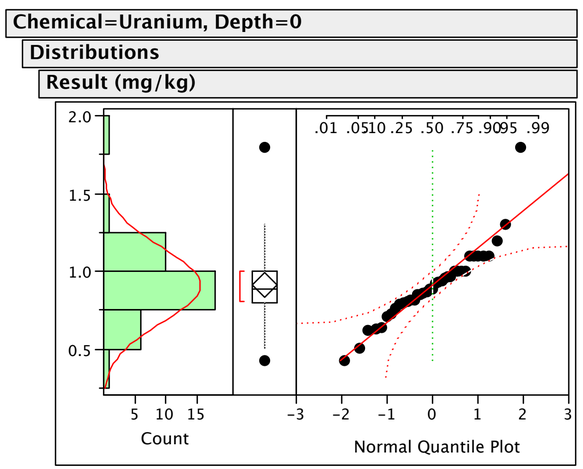
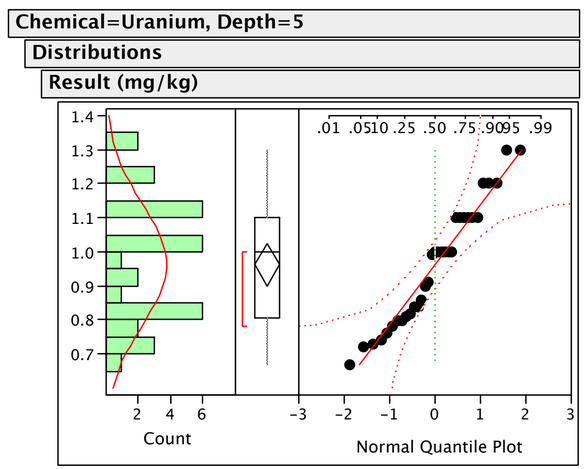
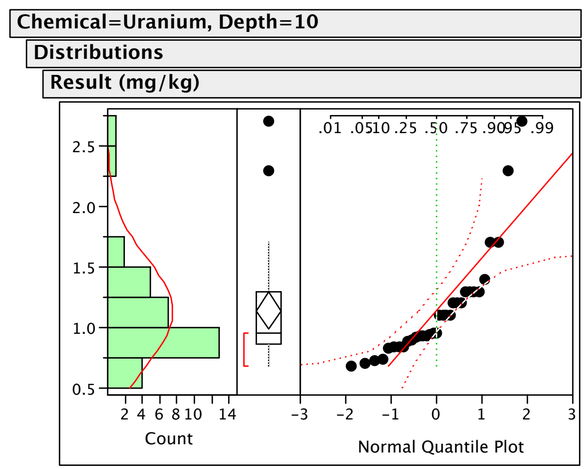


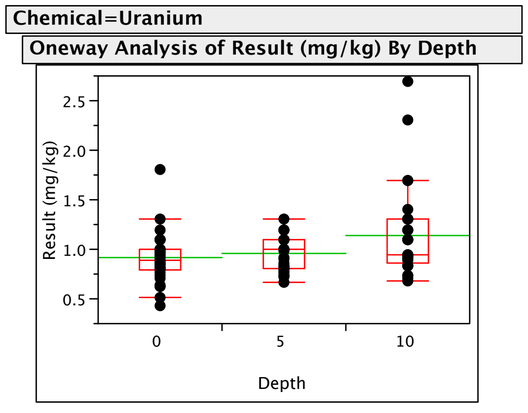
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









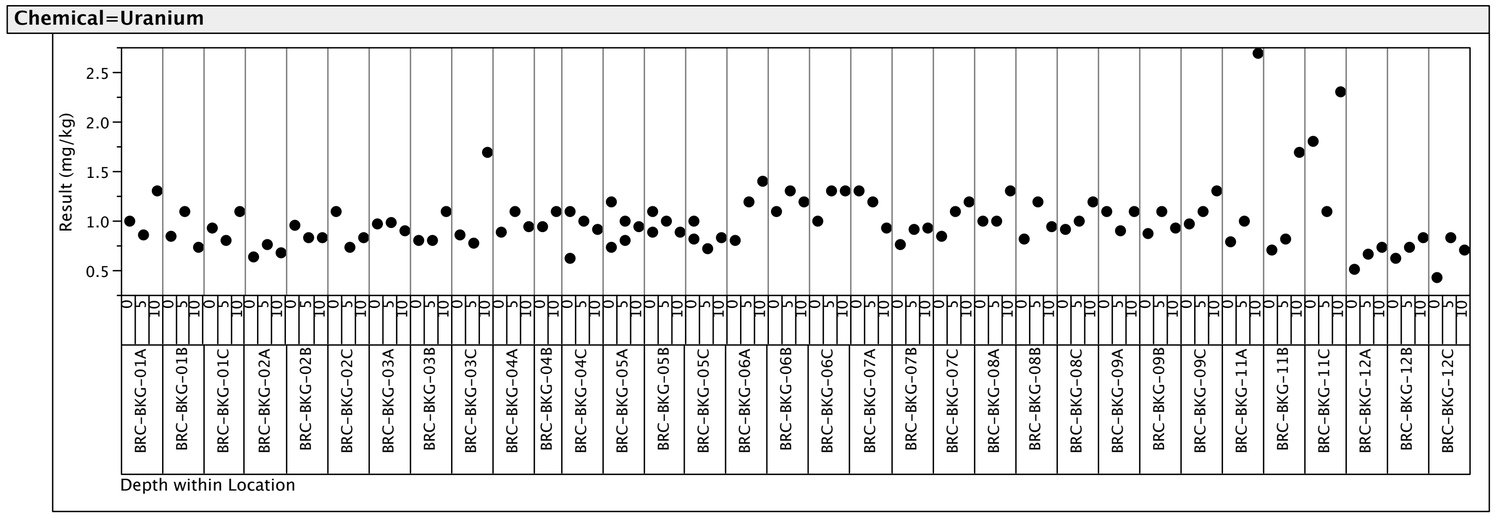
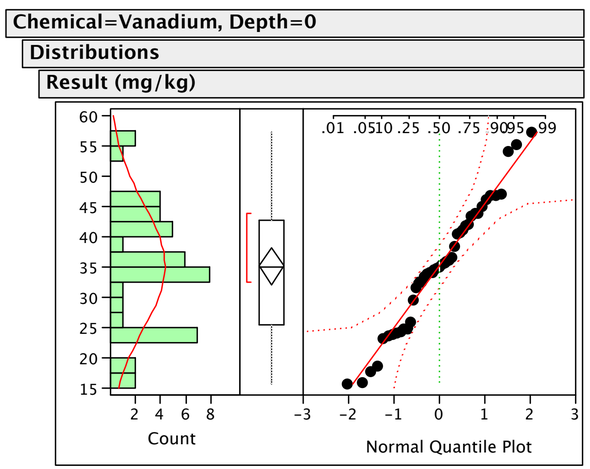
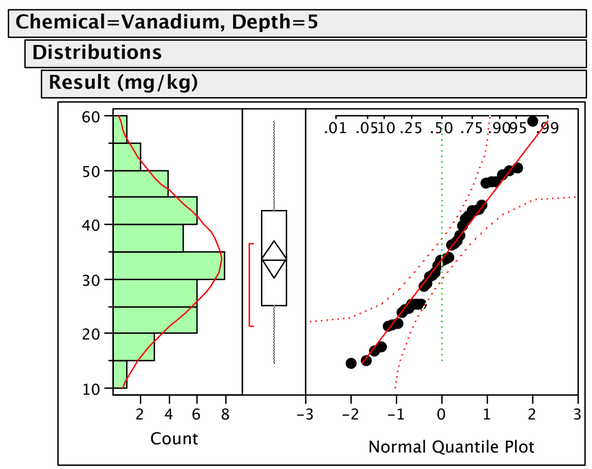
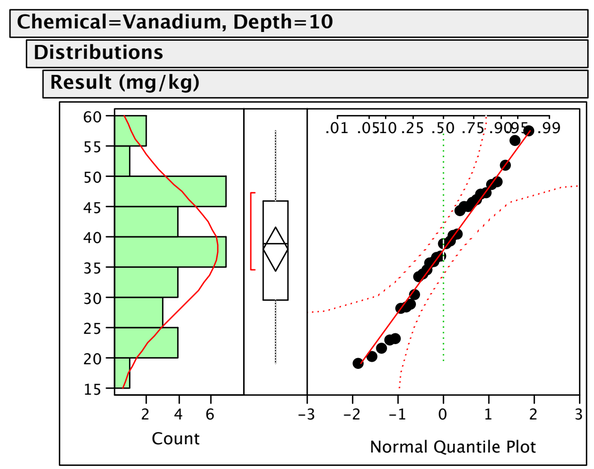


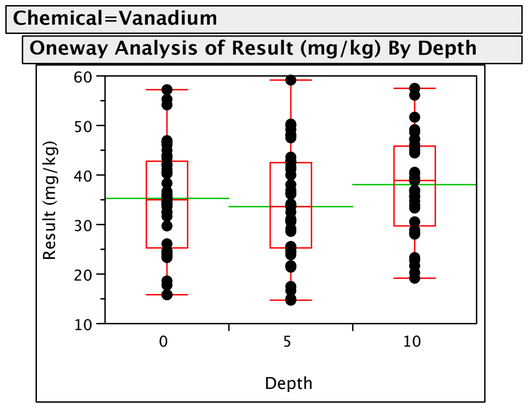
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









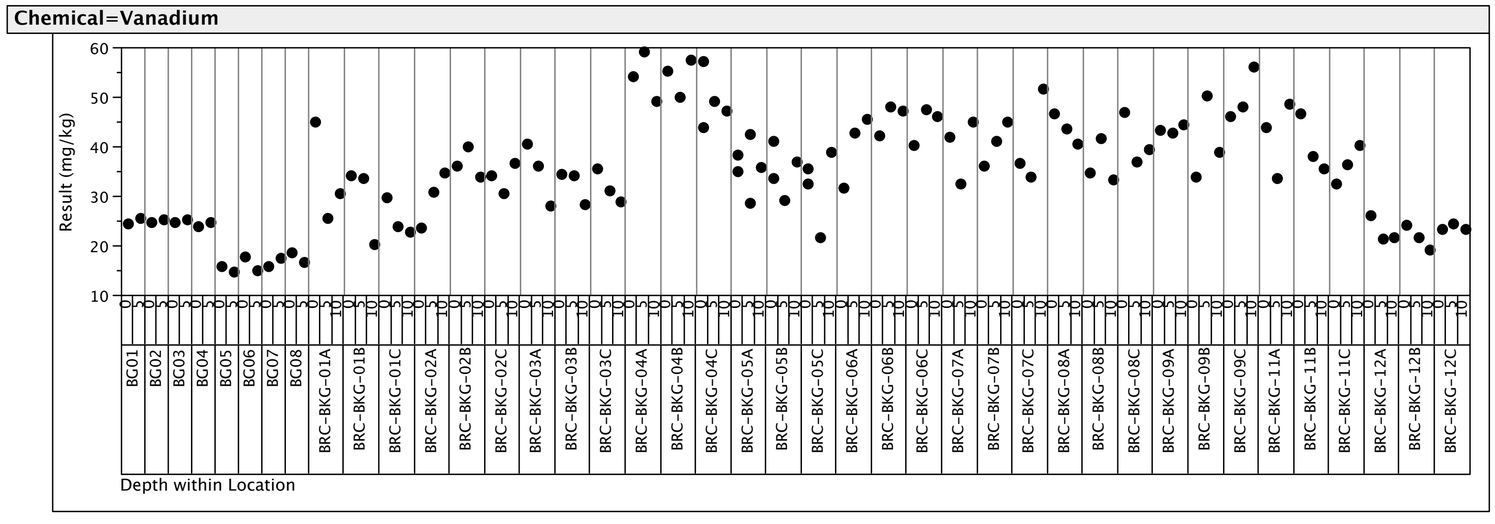
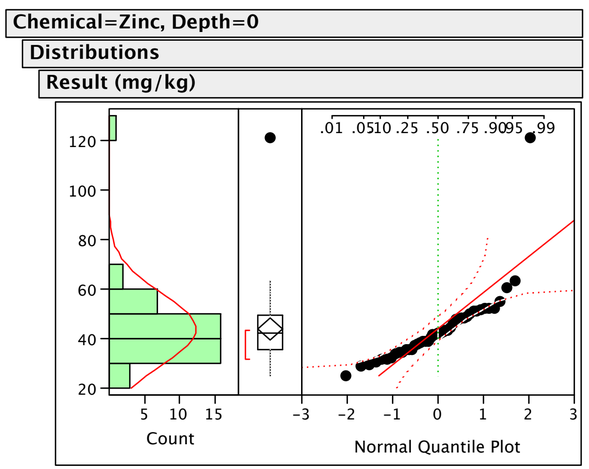
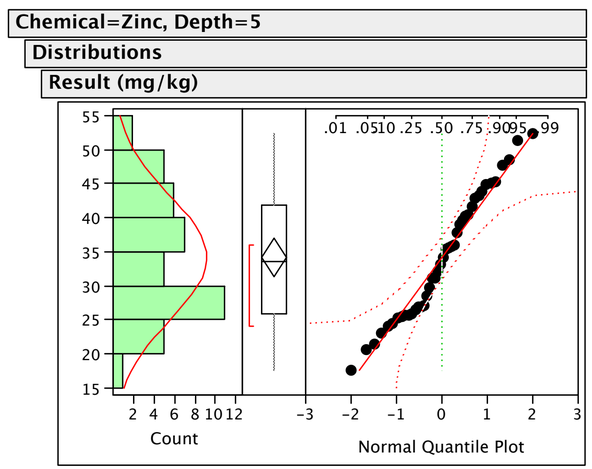
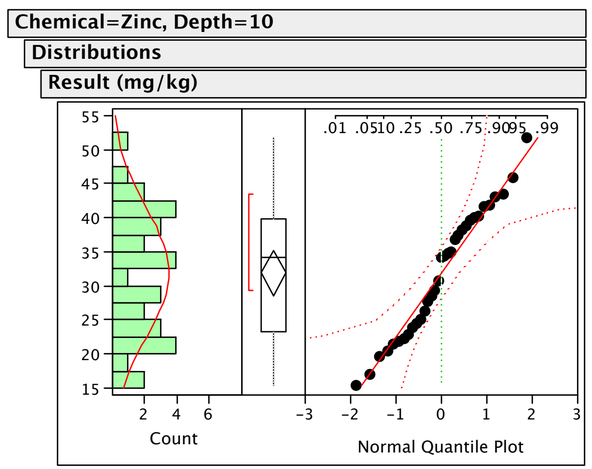


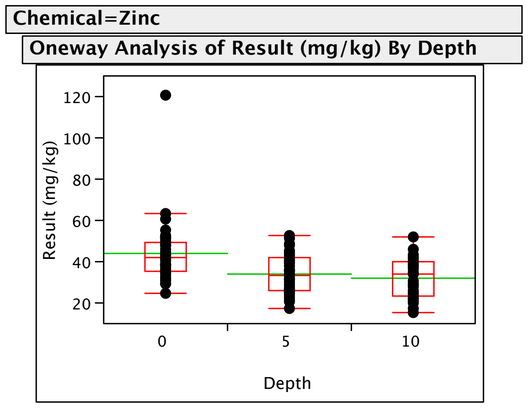
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









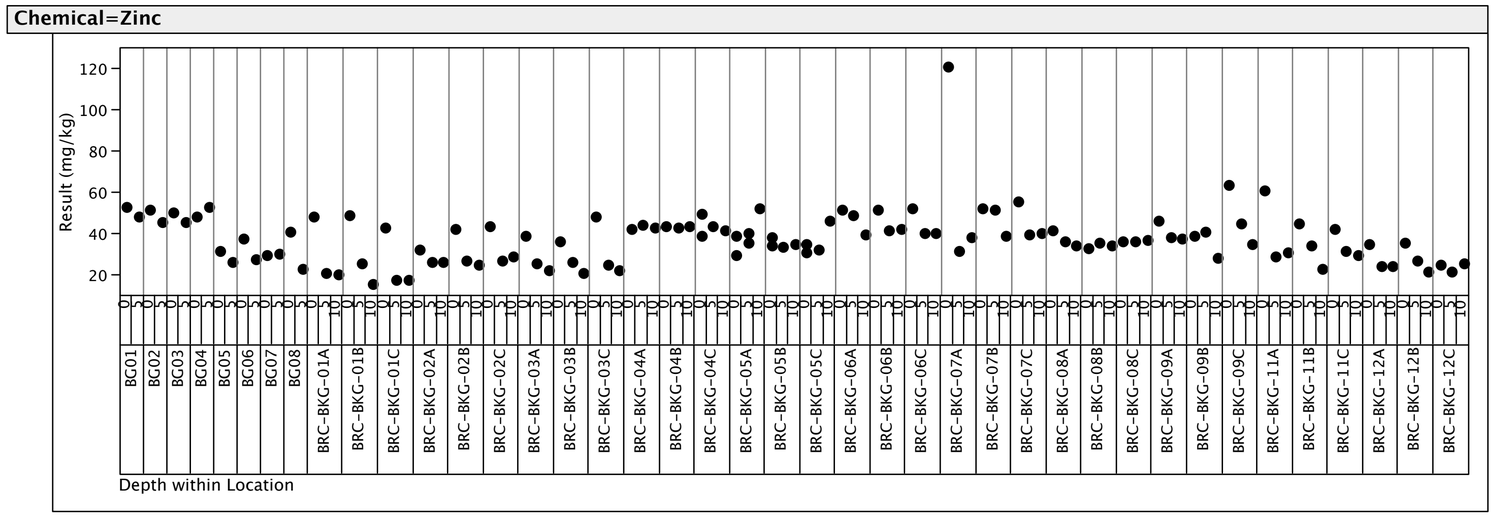
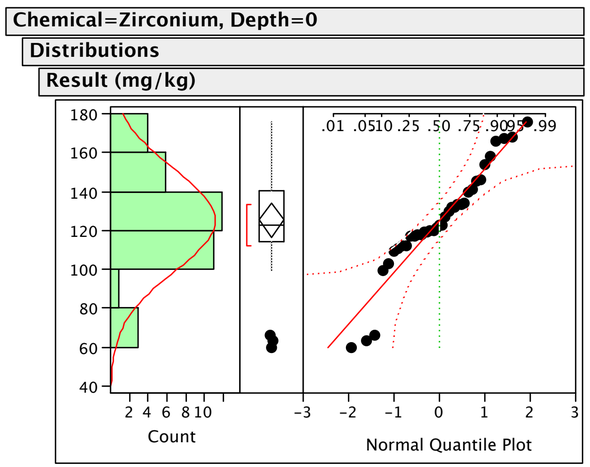
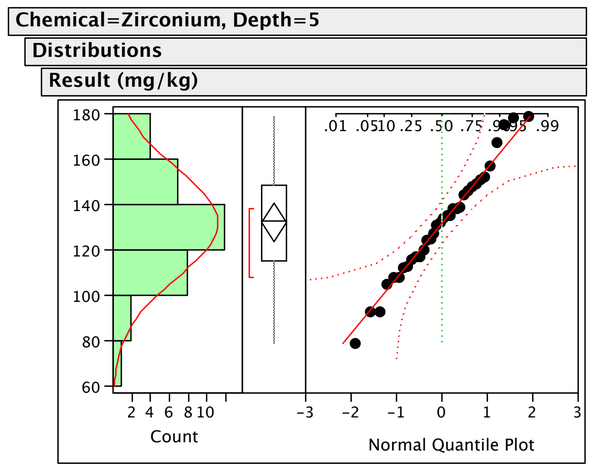
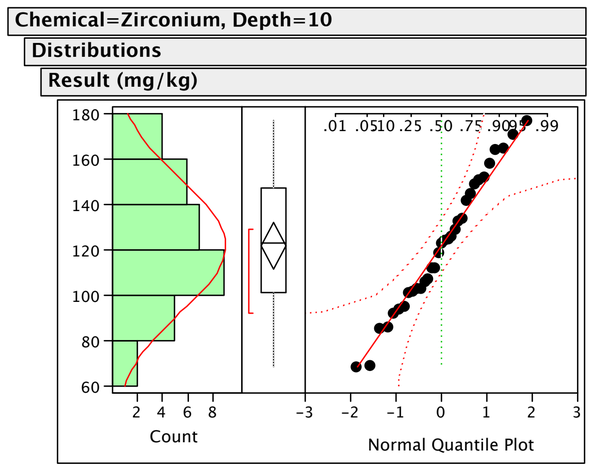


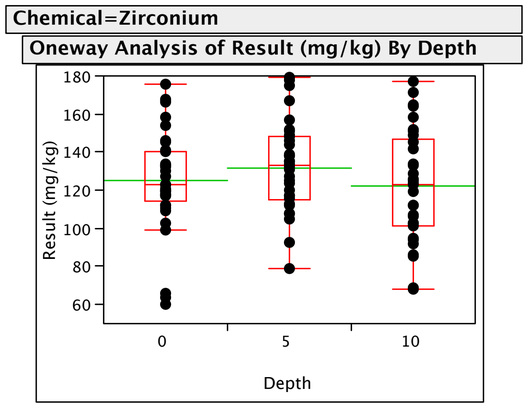
FIGURE G-3 (Continued)

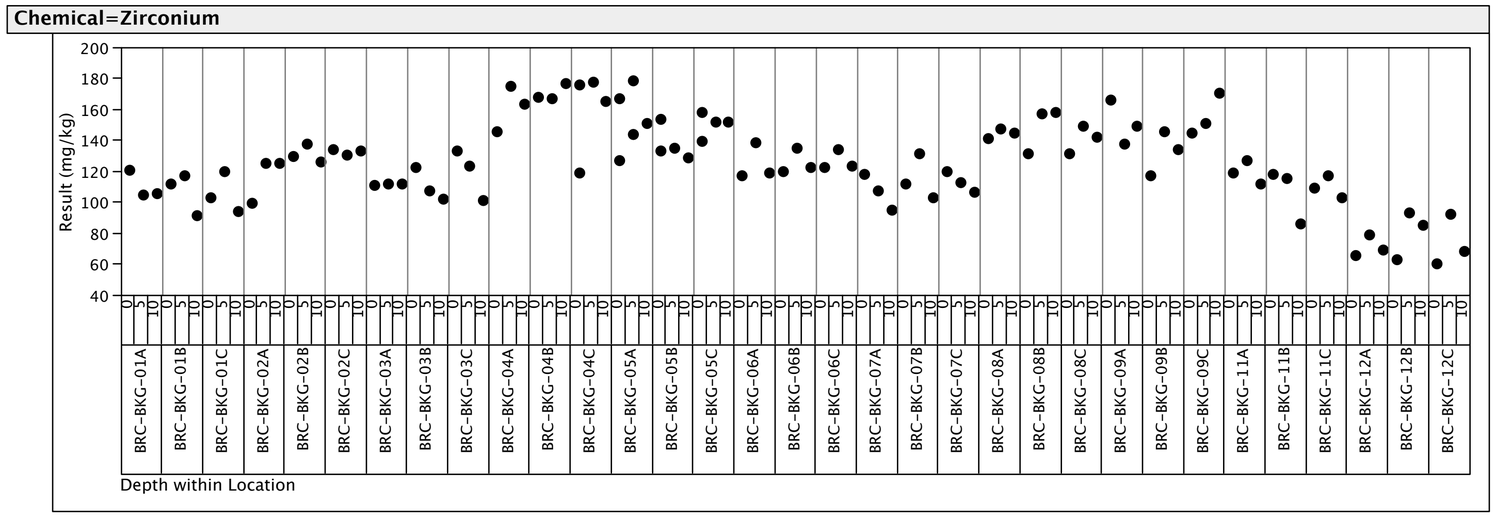
COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





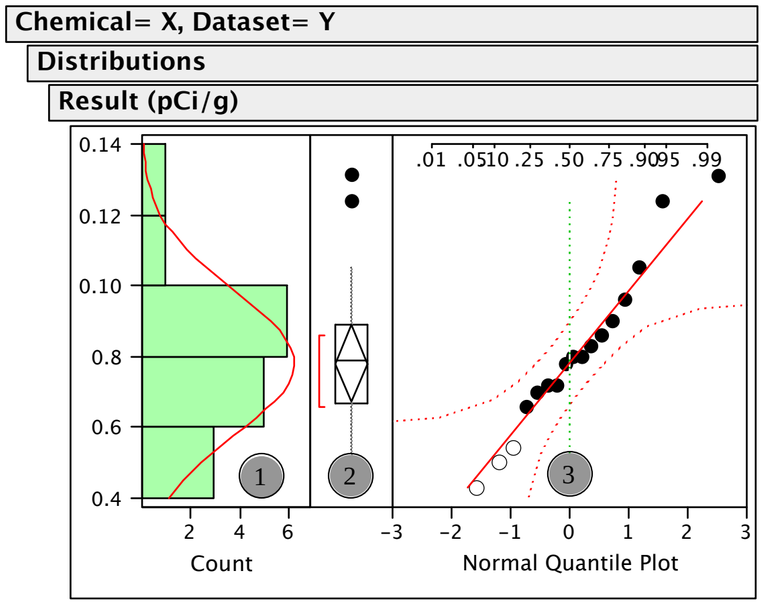


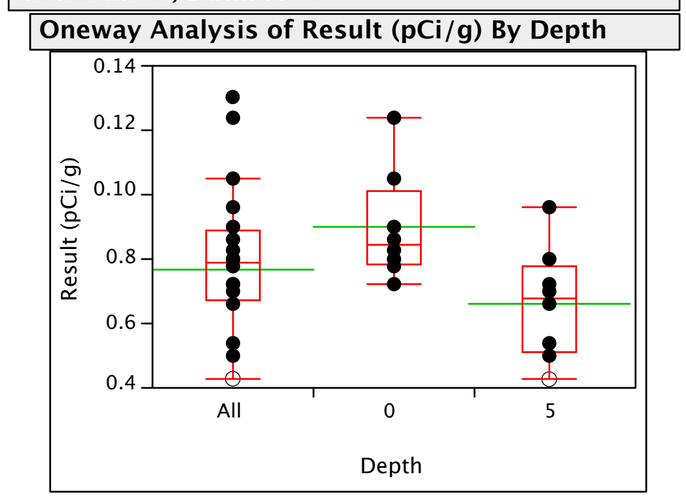




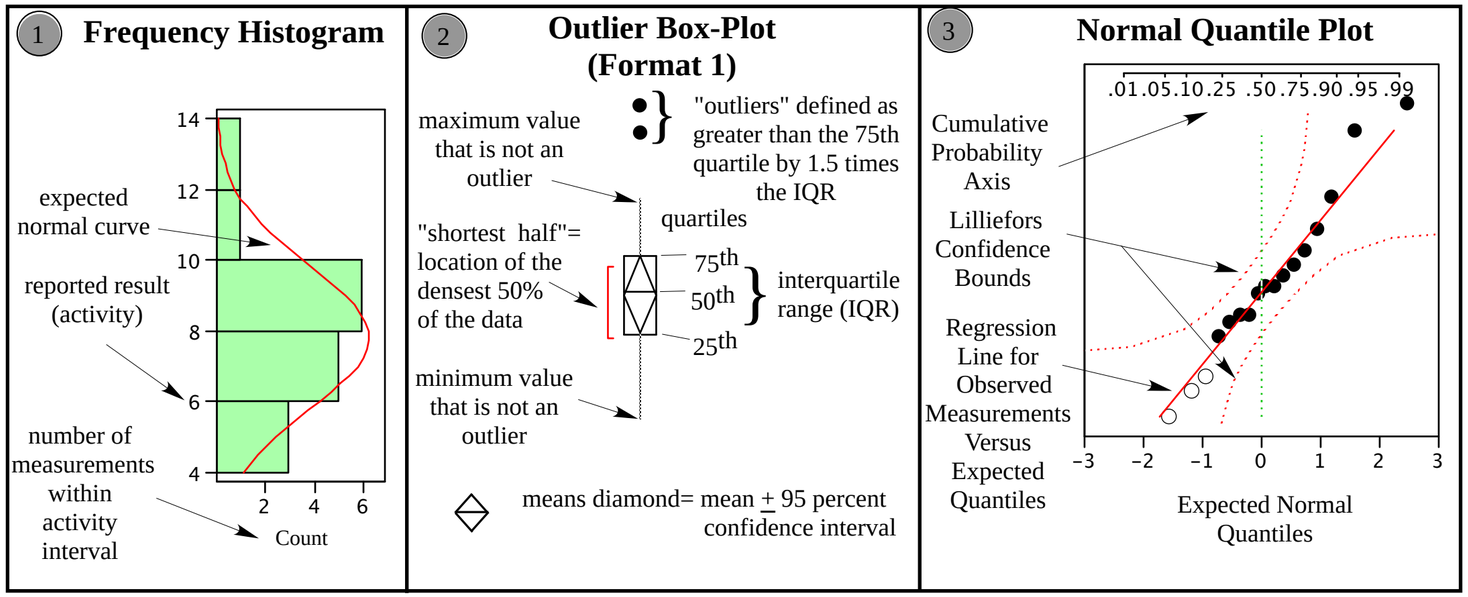
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-4

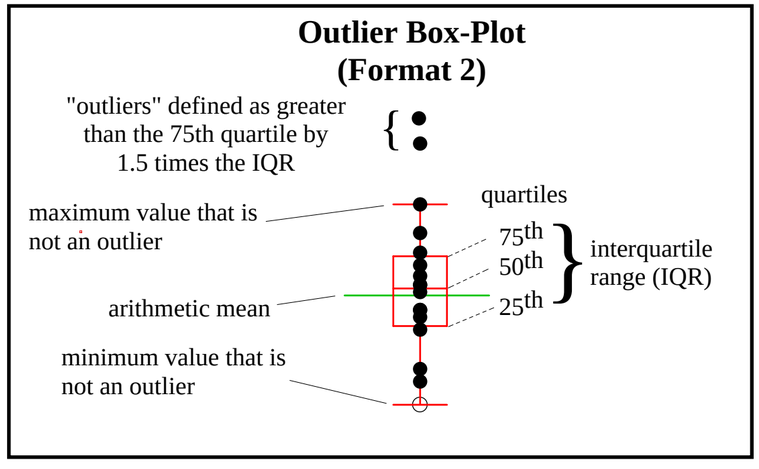
Example Figures From Appendix





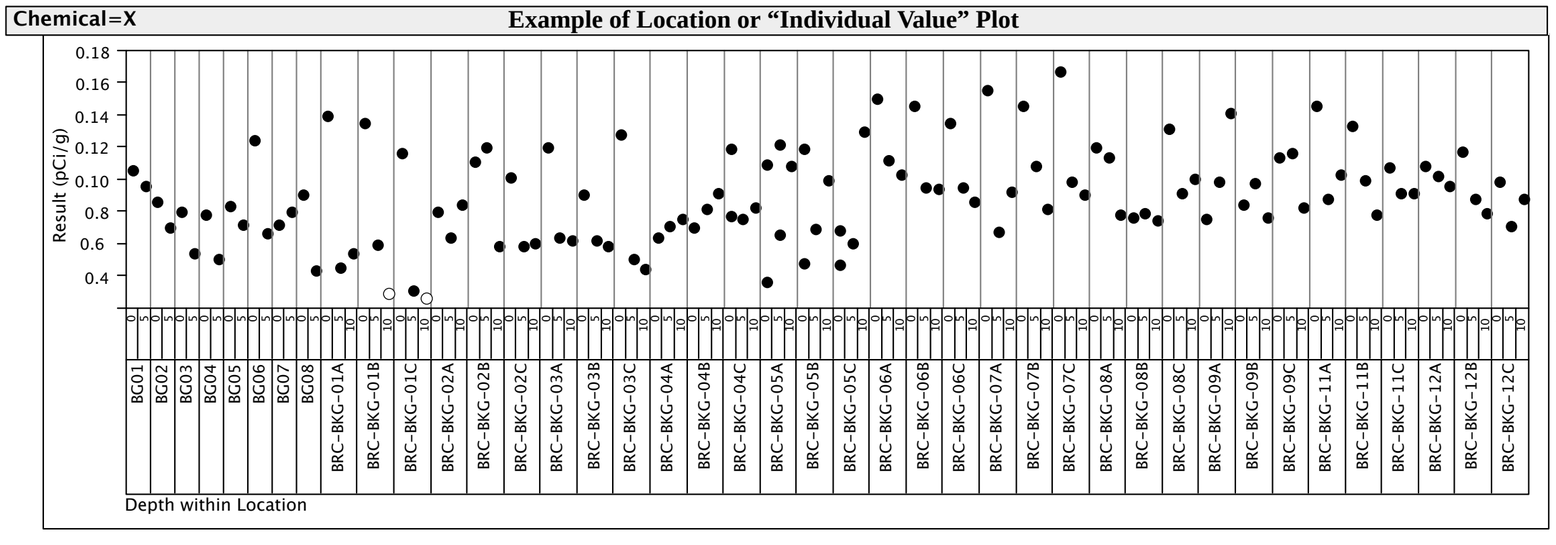
Keys to Individual Figure Panels





detected result

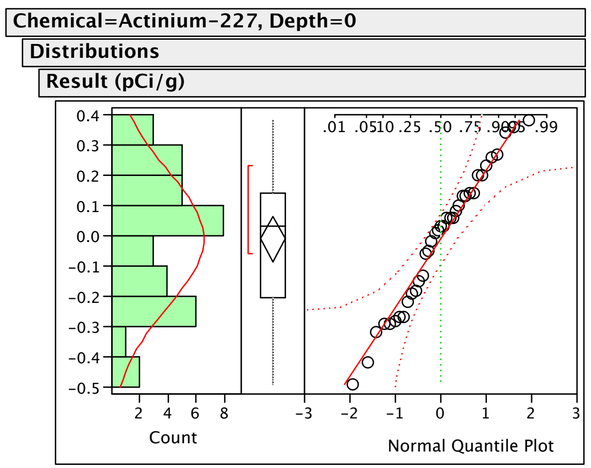
censored result

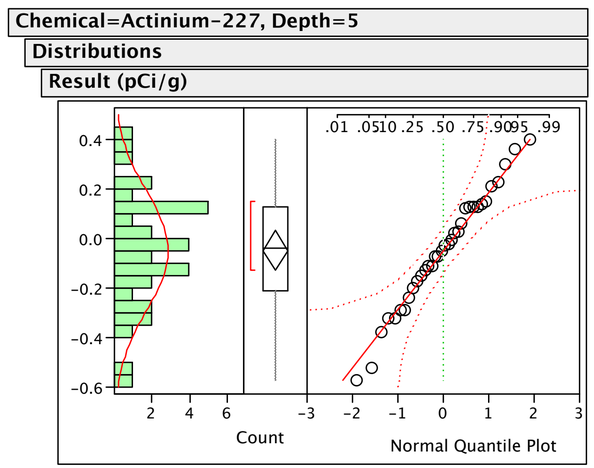


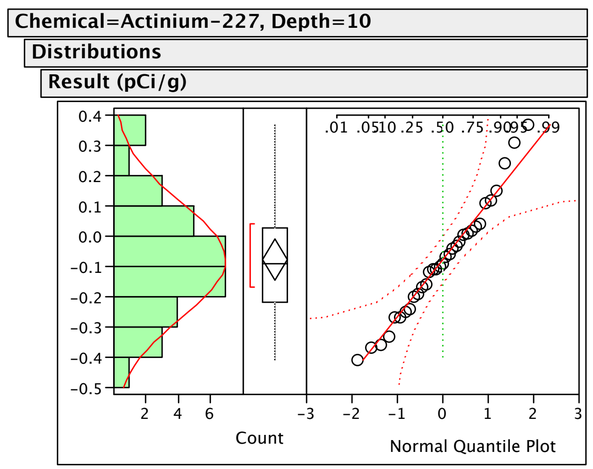
Results are Plottted for Individual Locations and Grouped by Soil Depth

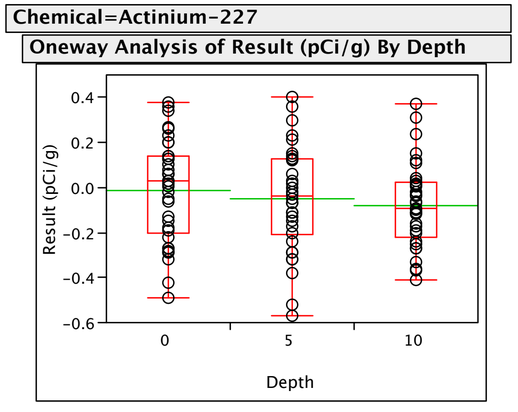
FIGURE G-4

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









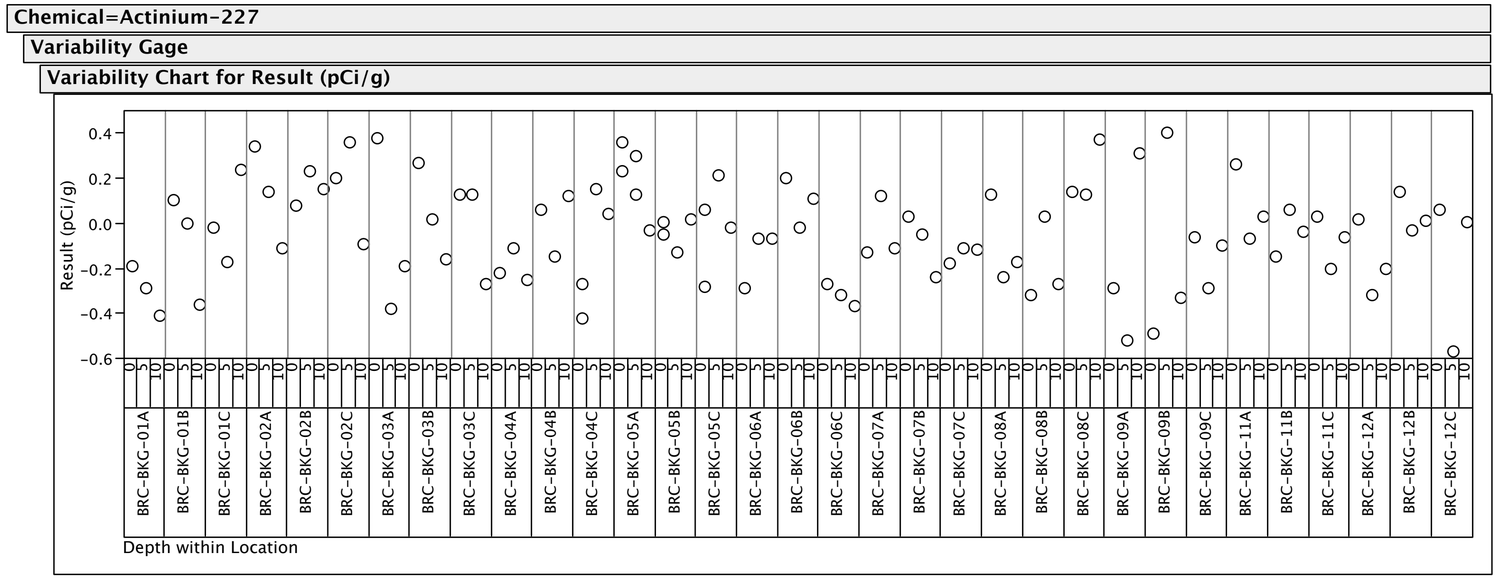
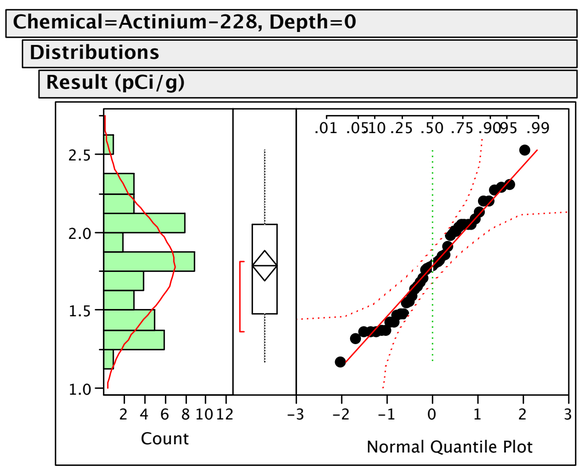
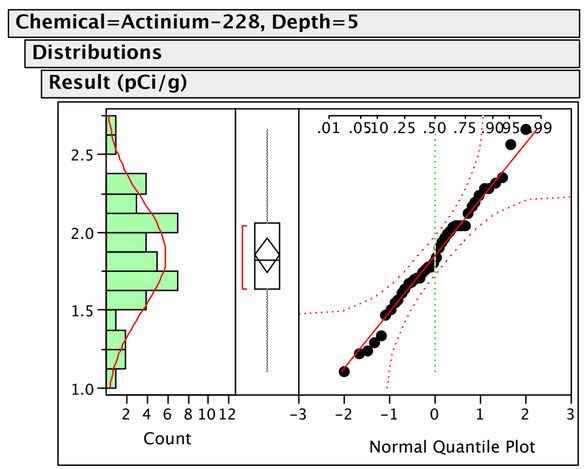
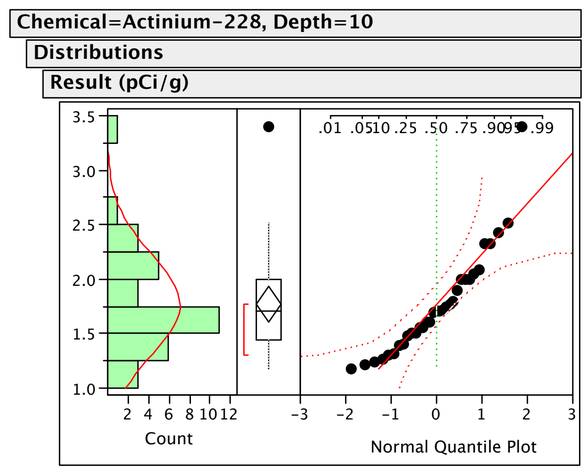


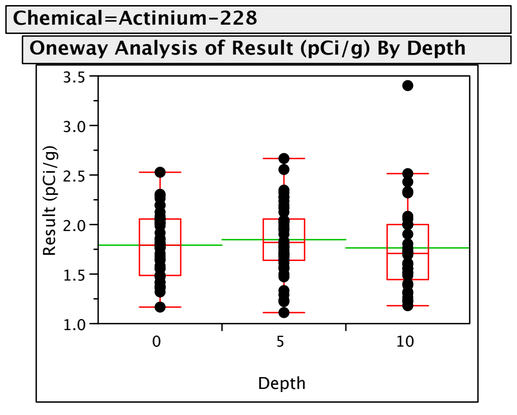
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









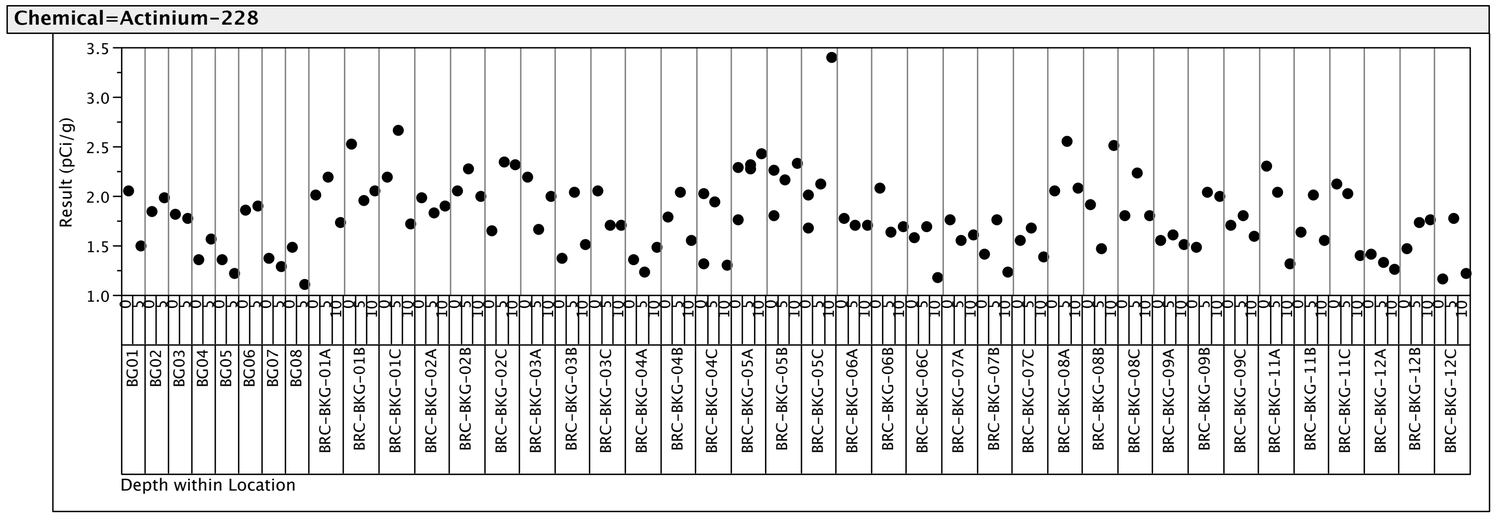
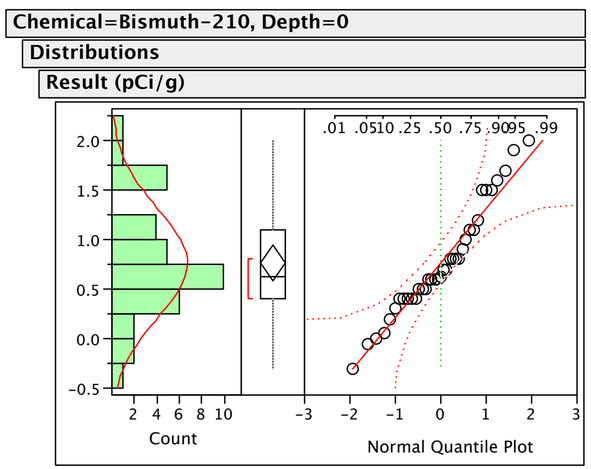
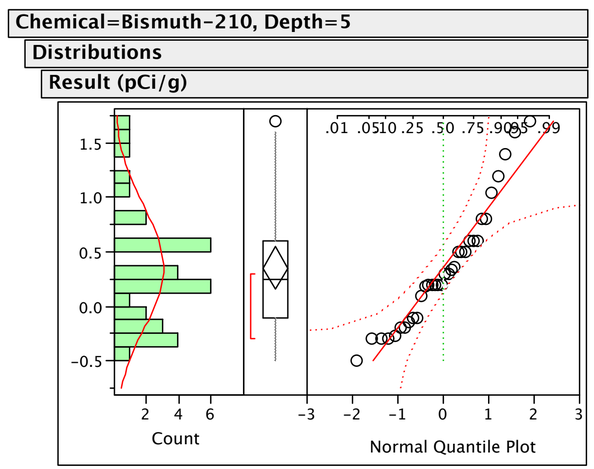
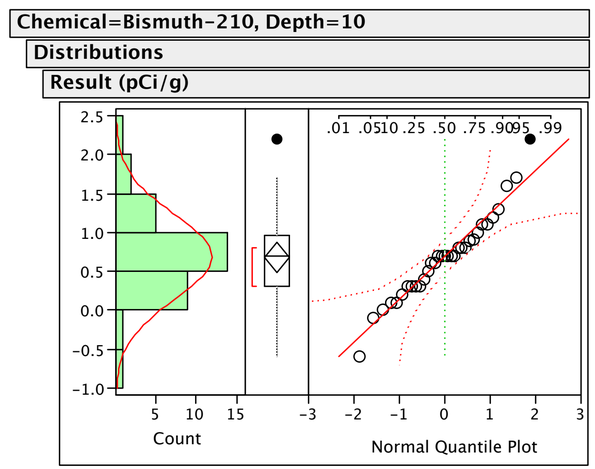


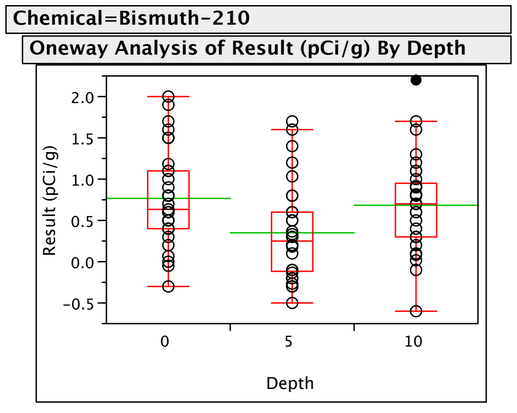
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









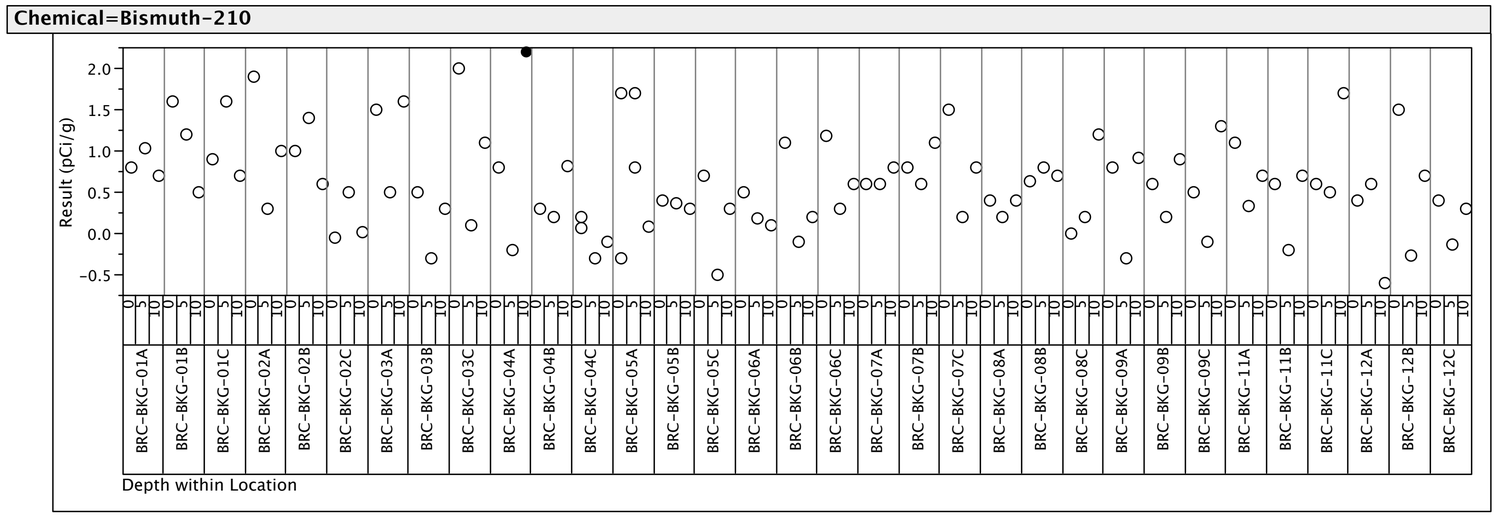
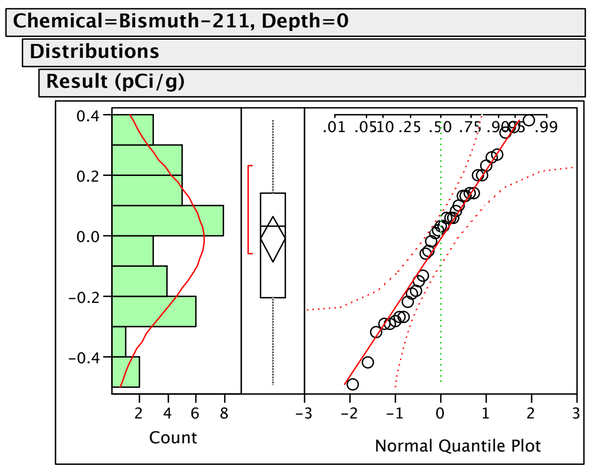
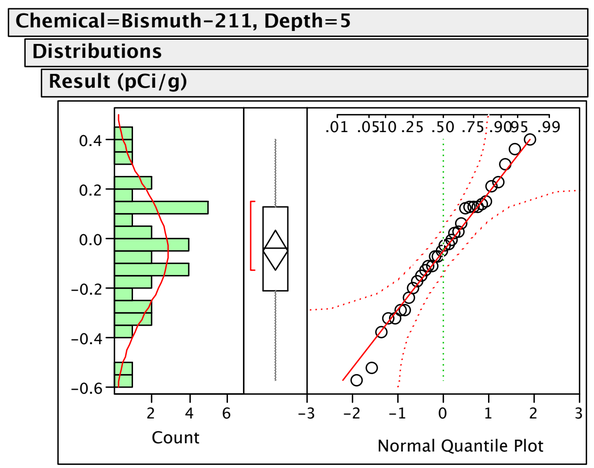
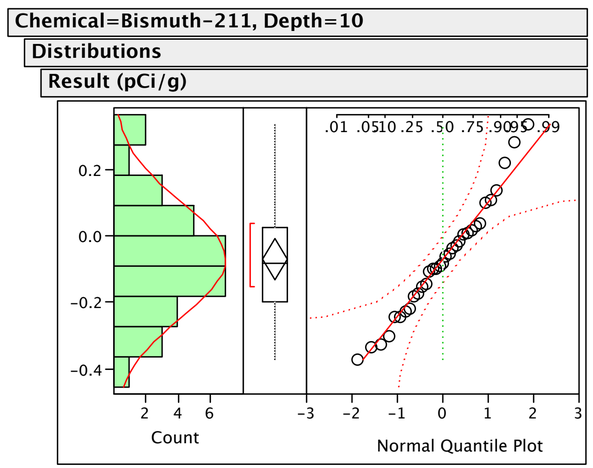


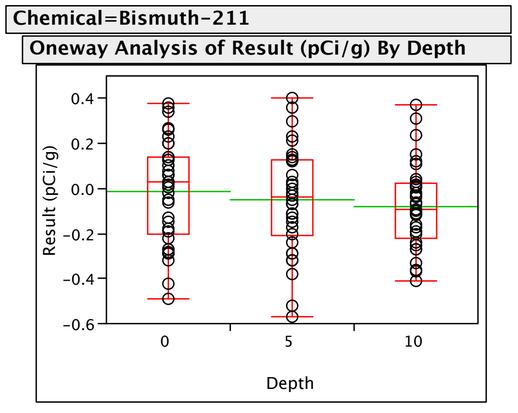
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









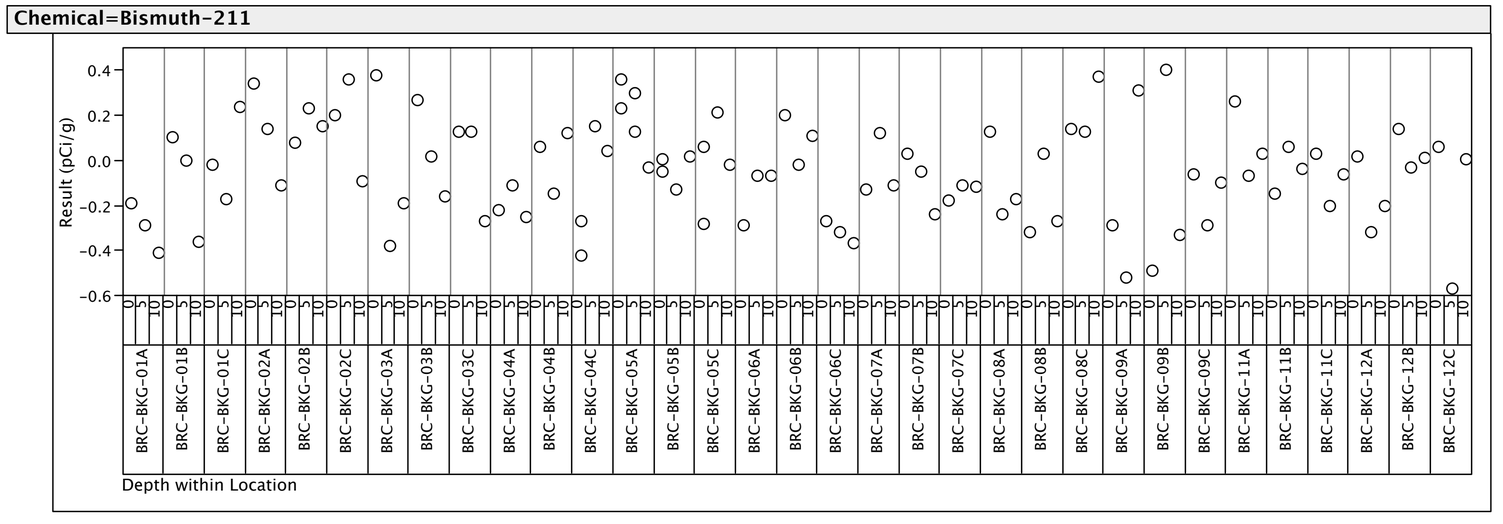
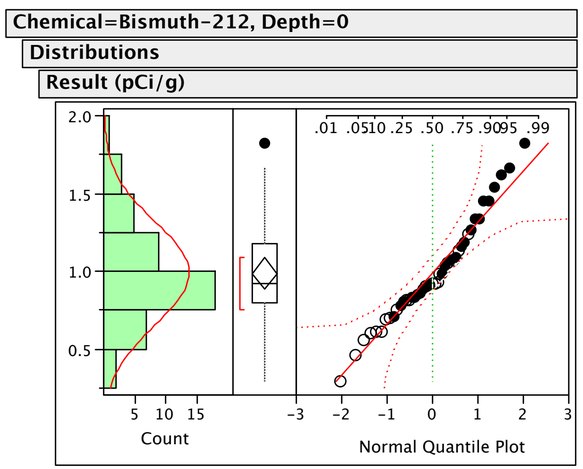
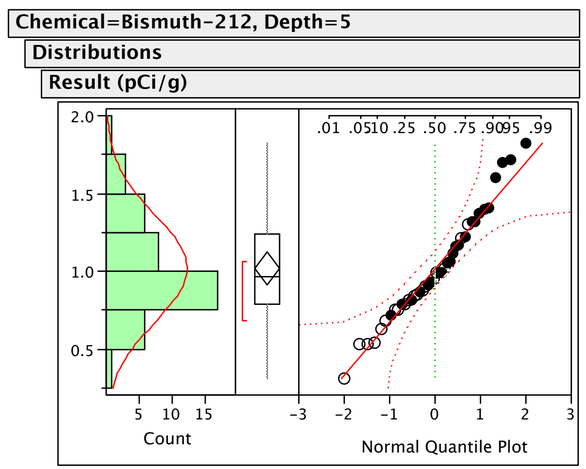
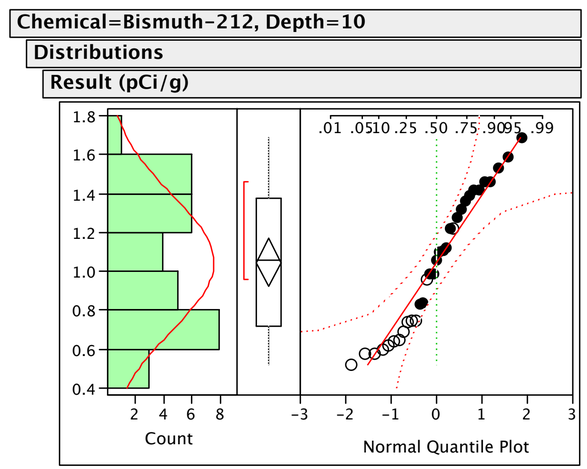


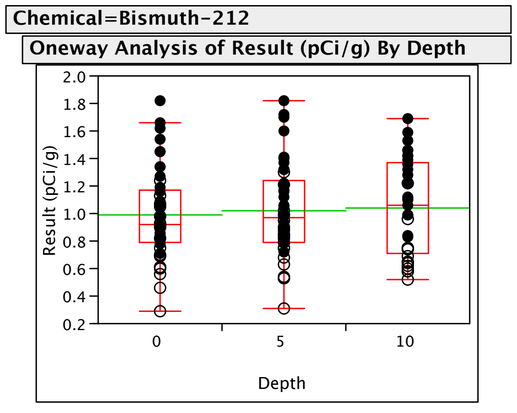
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









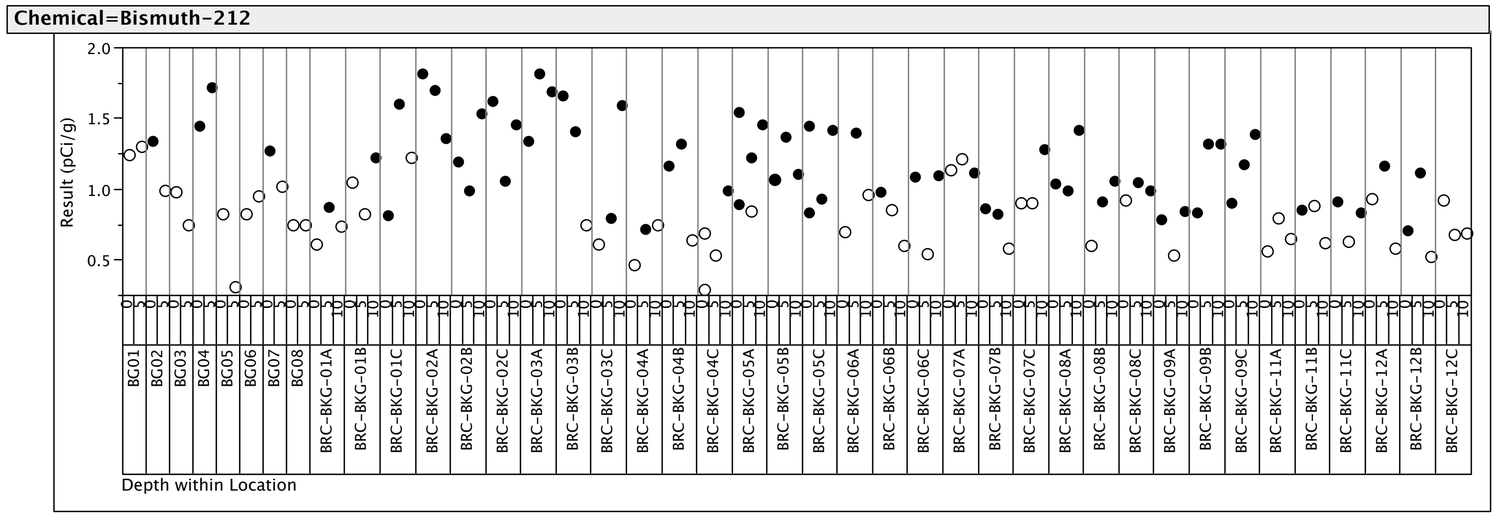
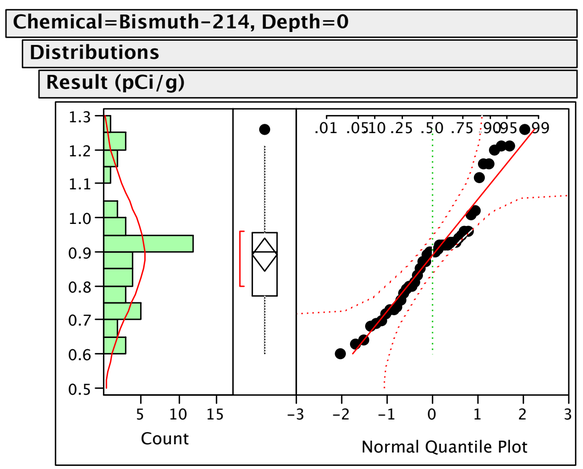
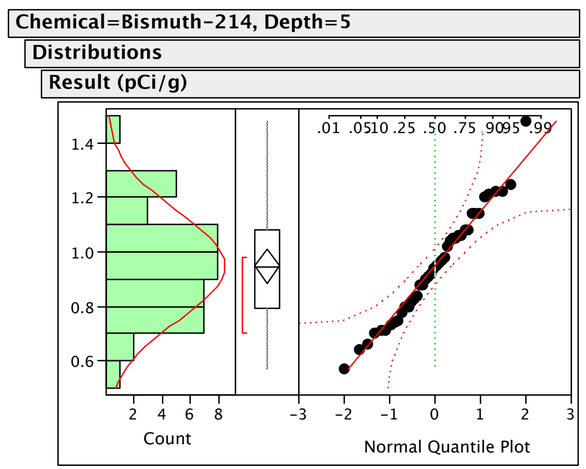
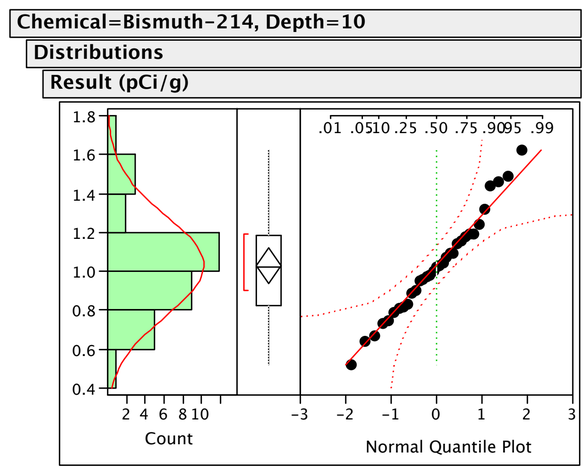


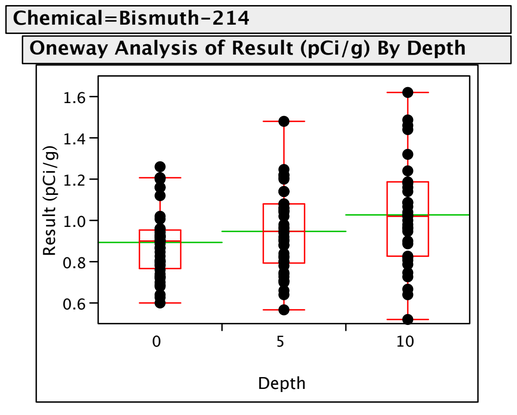
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









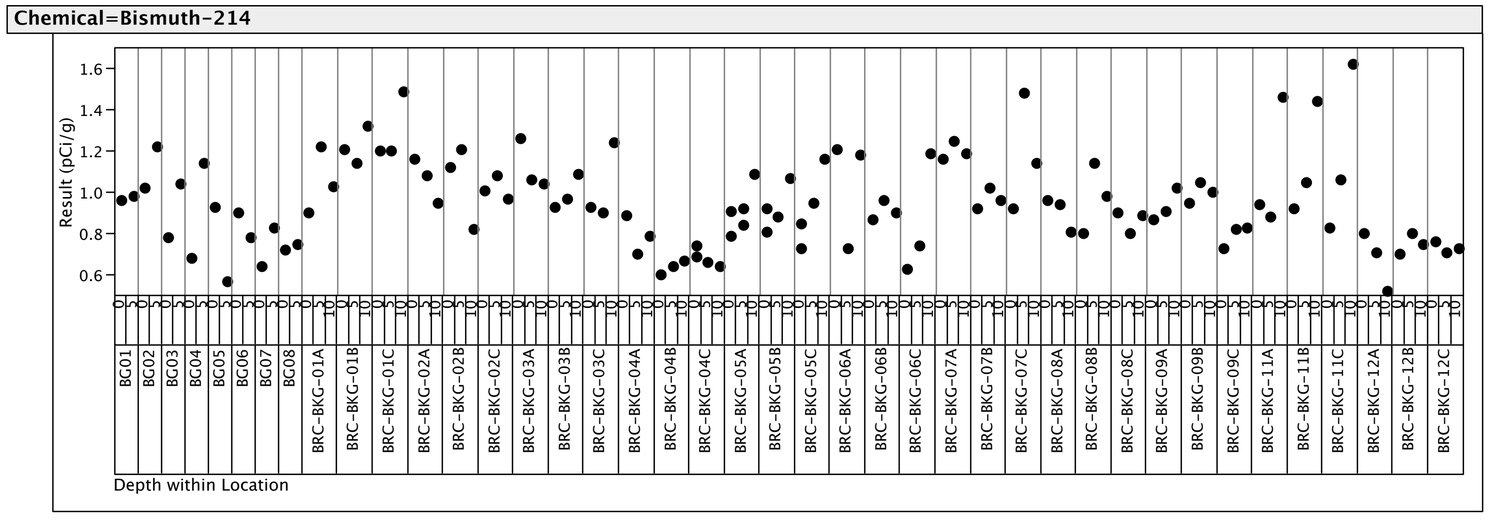
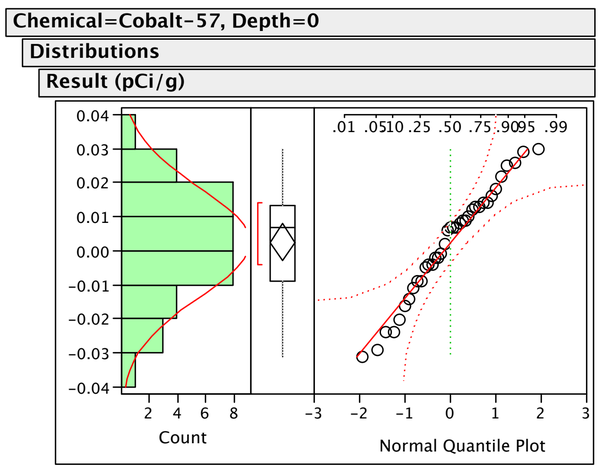
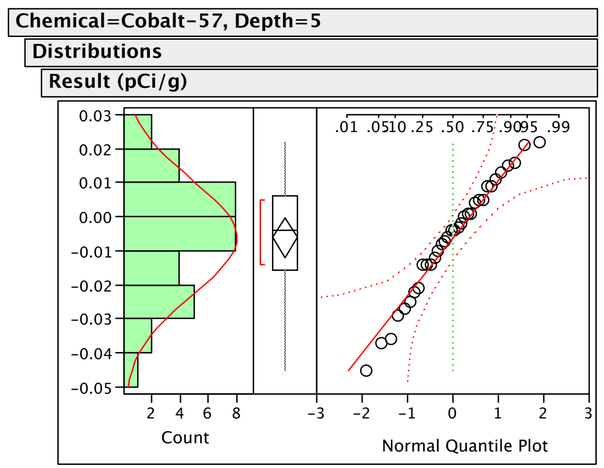
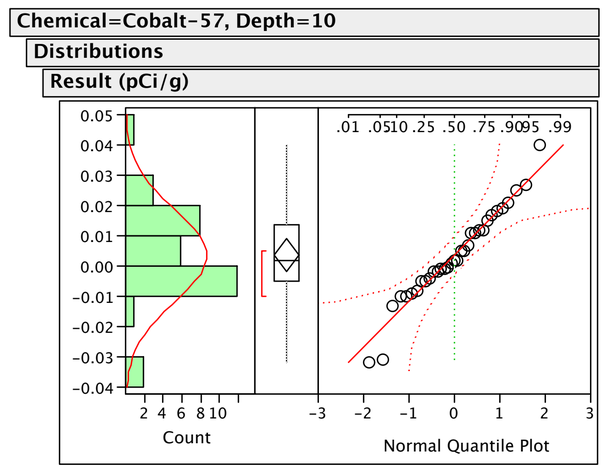


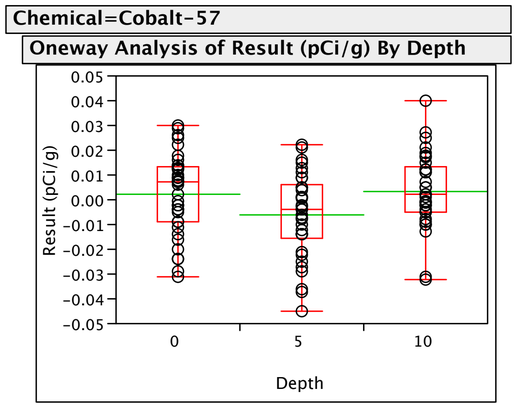
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









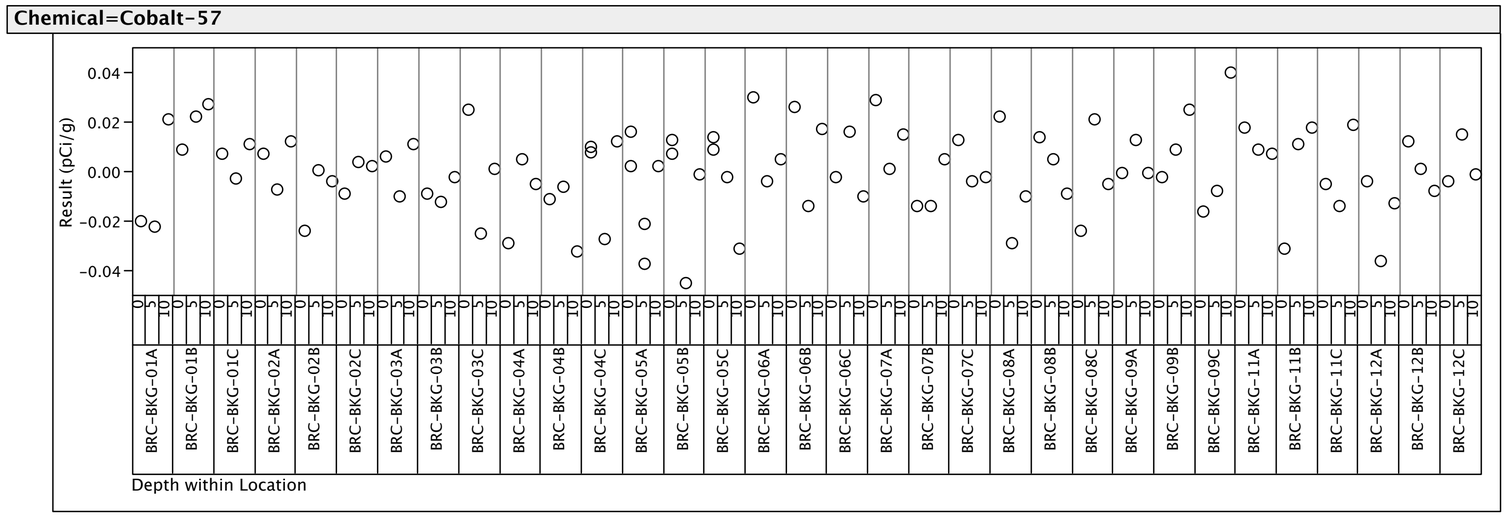
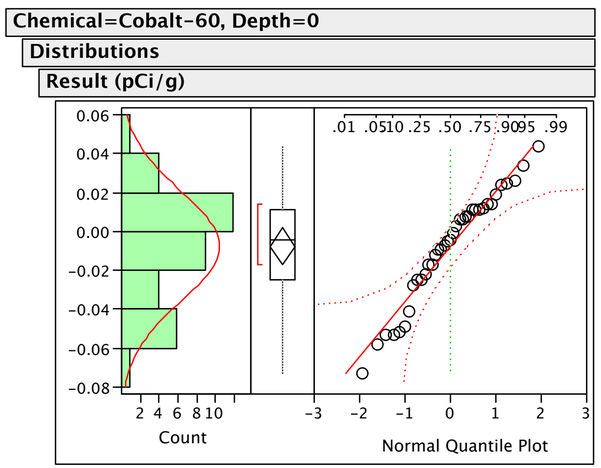
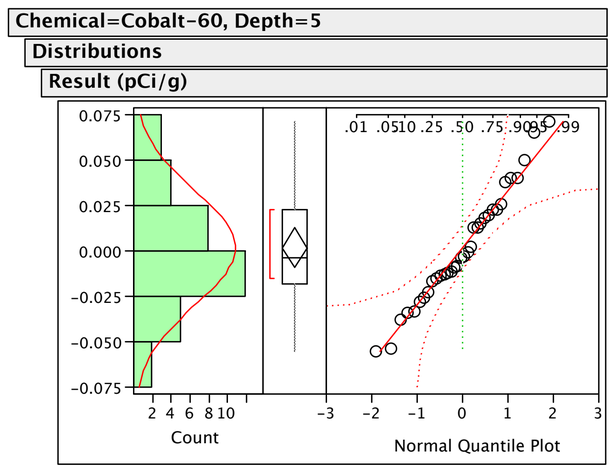
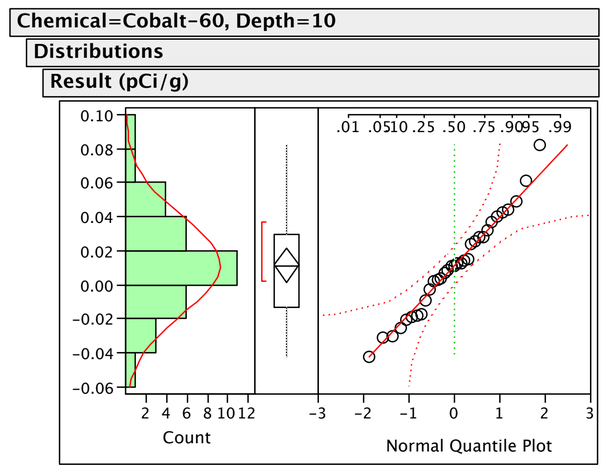


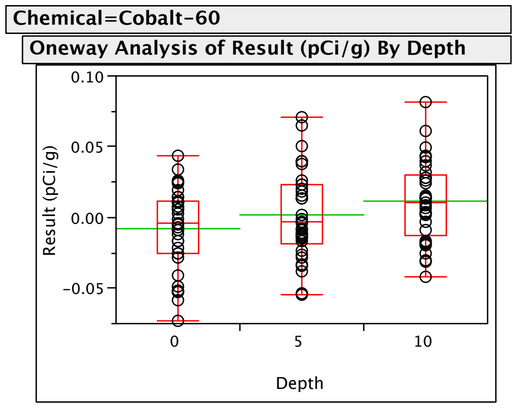
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









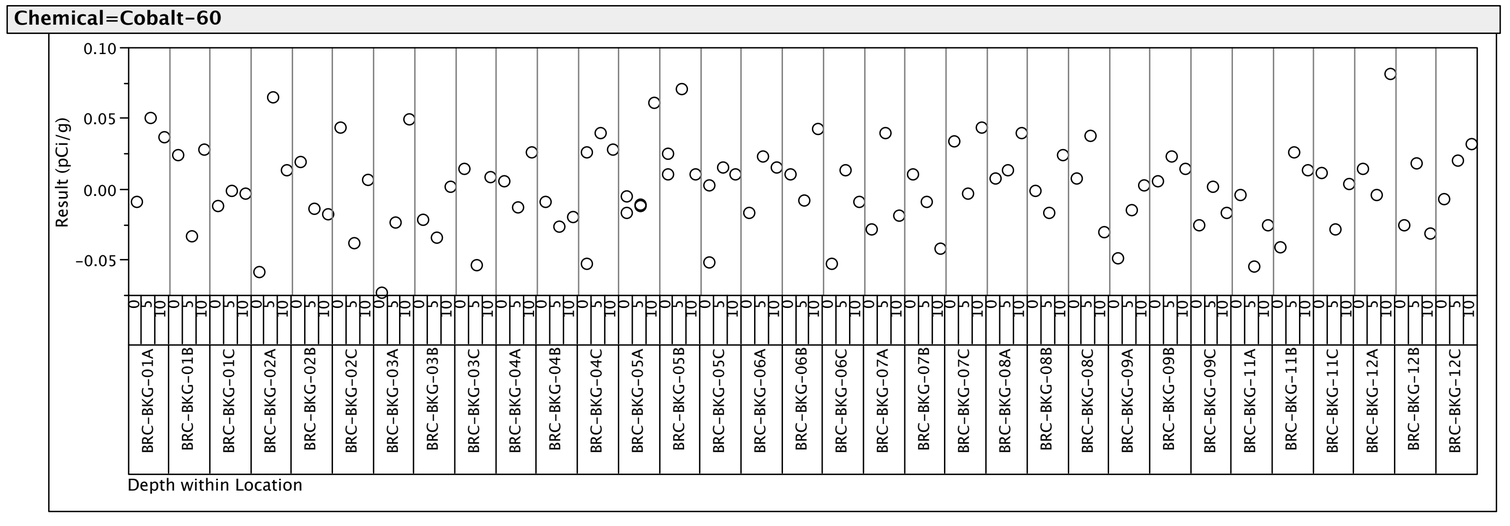
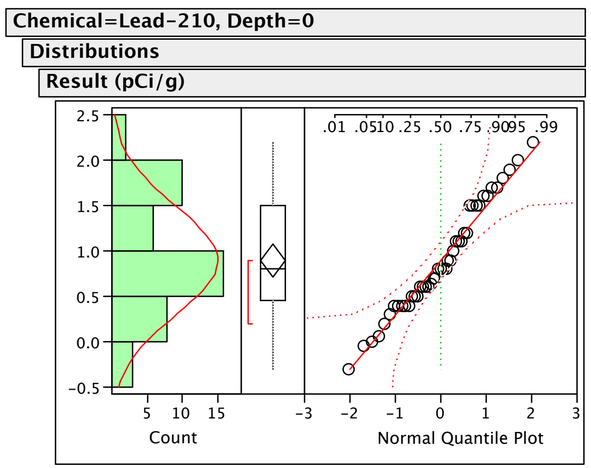
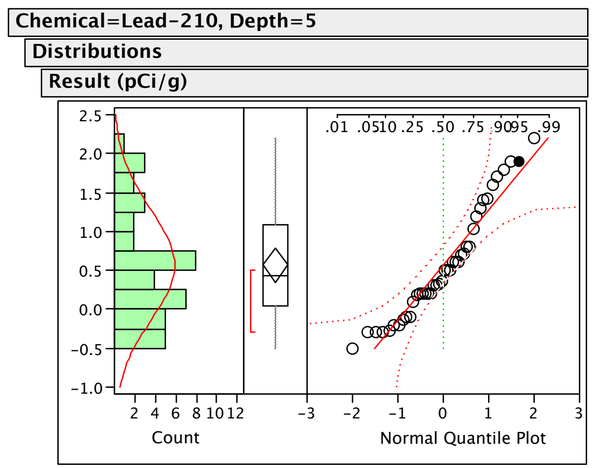
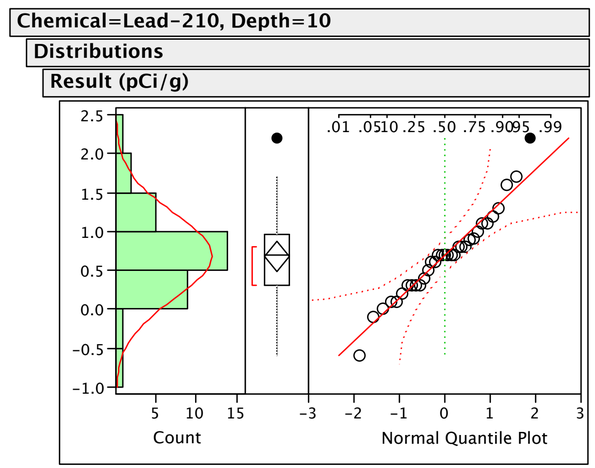


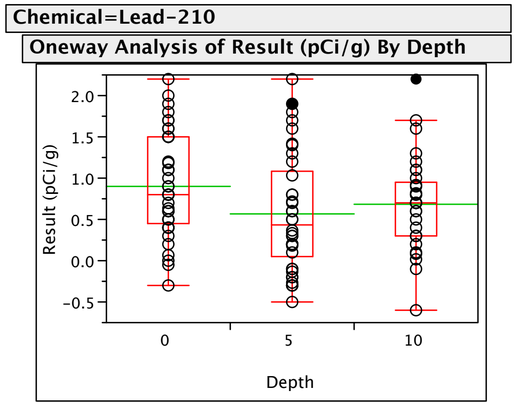
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









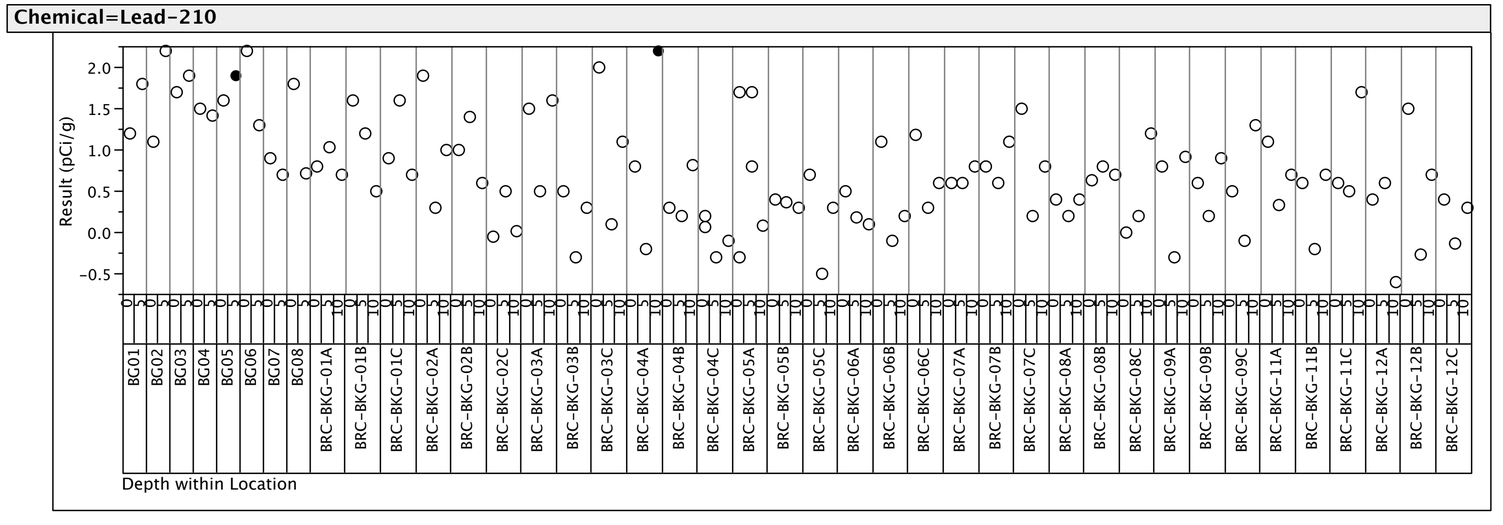
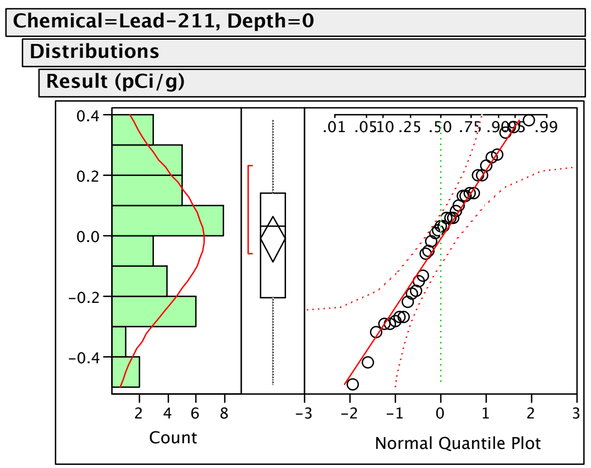
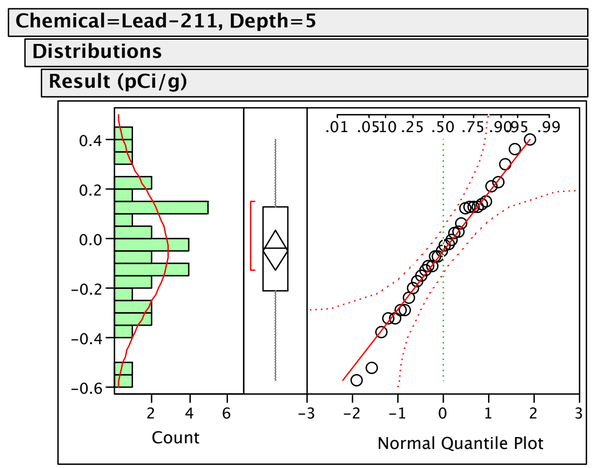
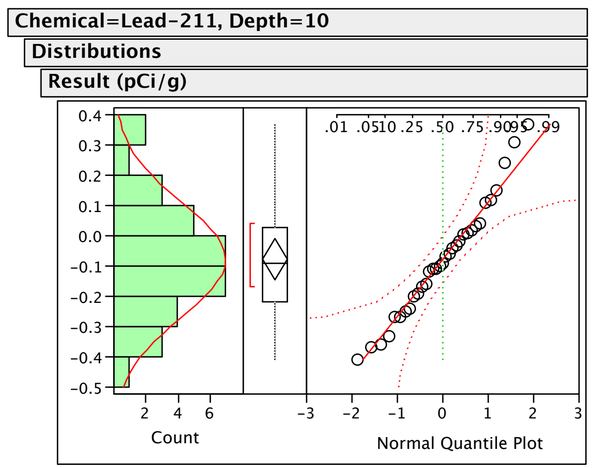


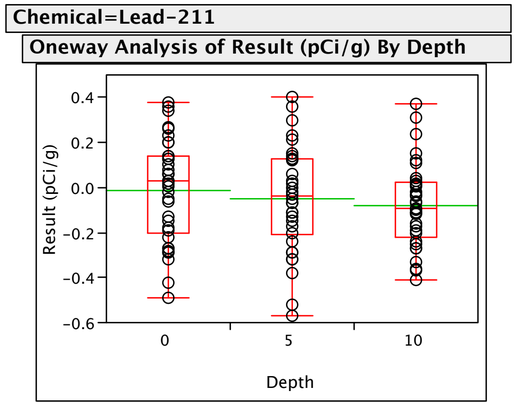
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









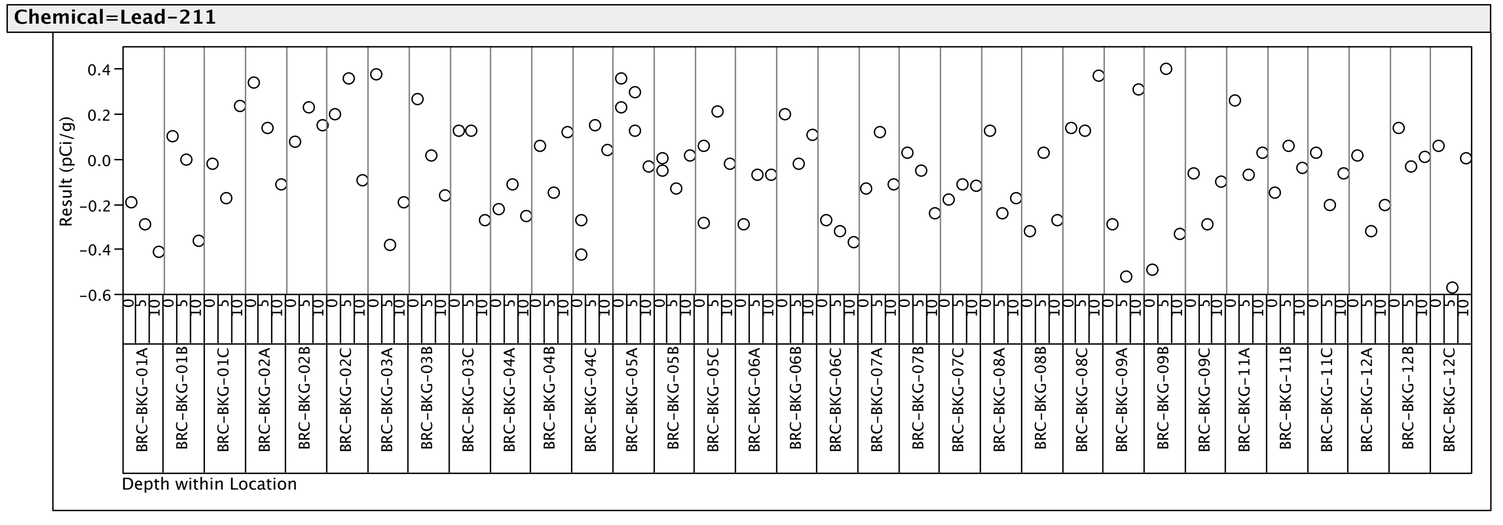
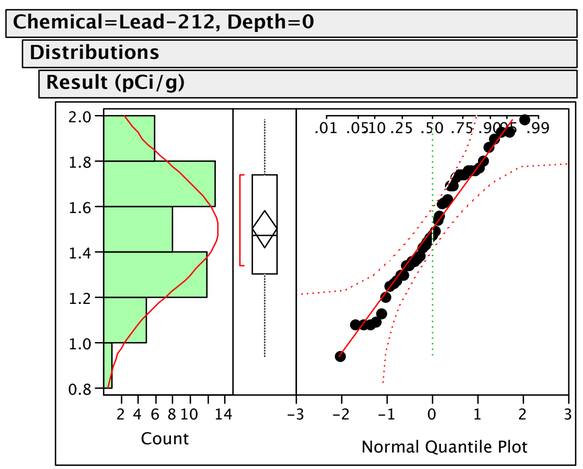
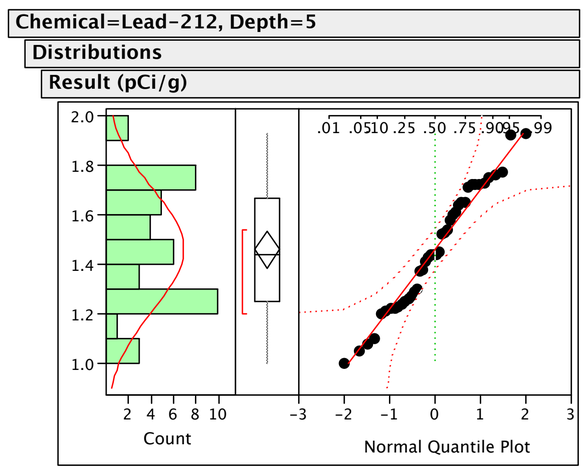
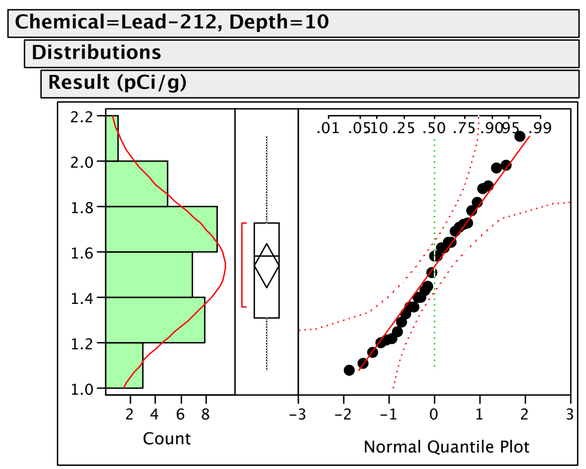


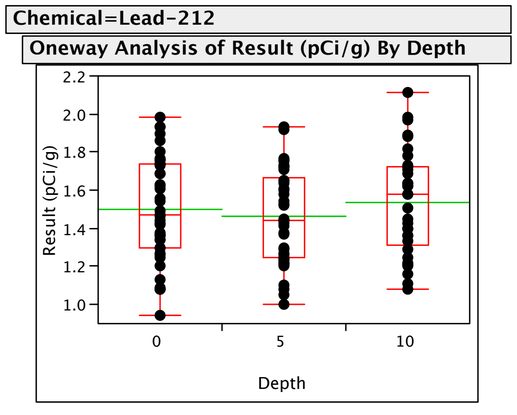
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









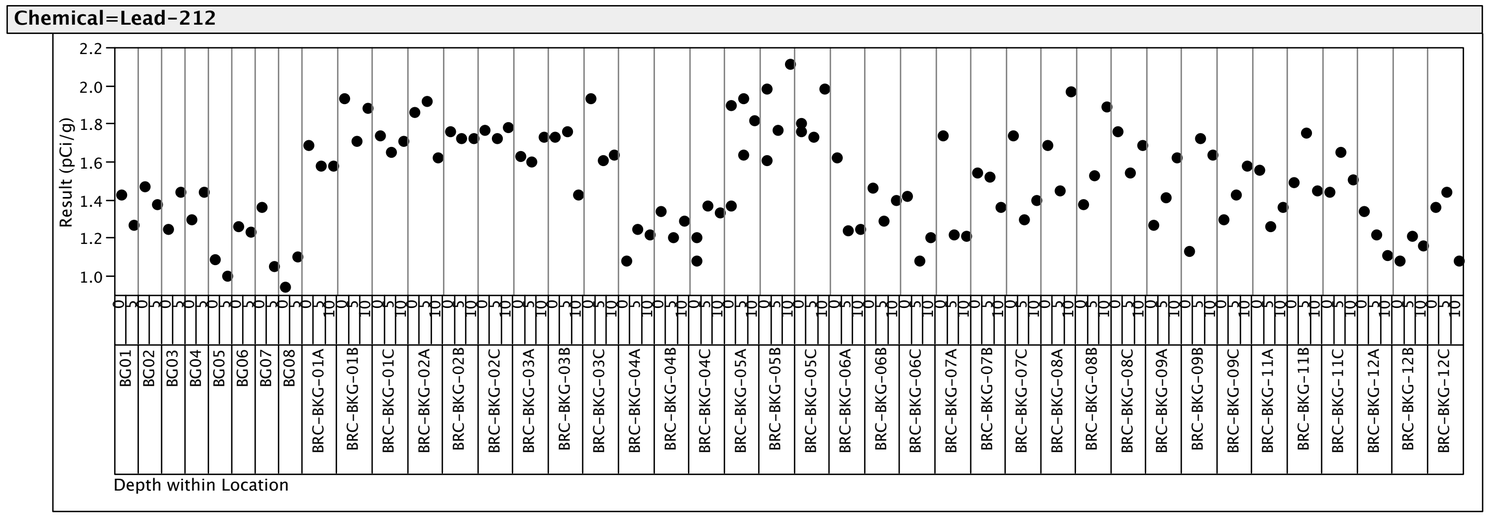
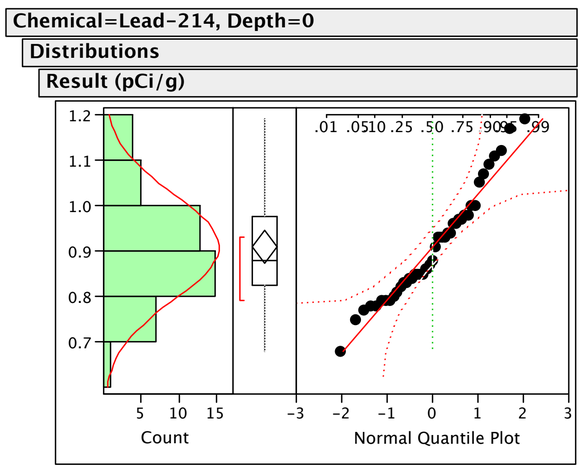
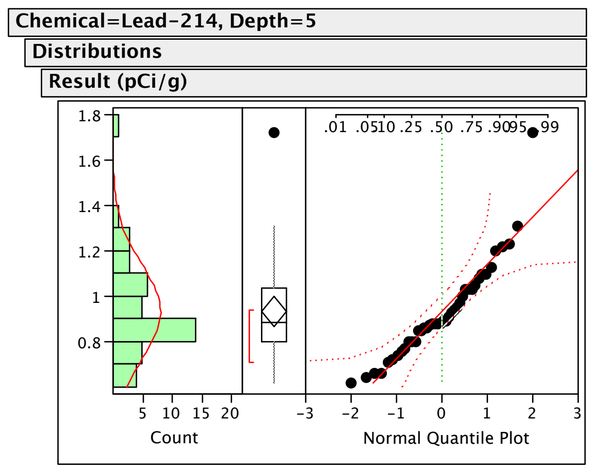
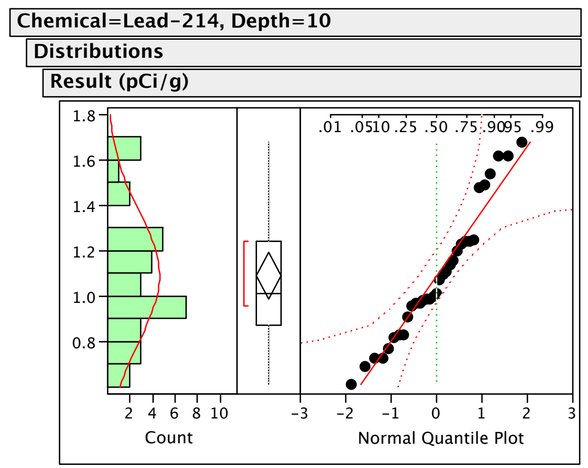


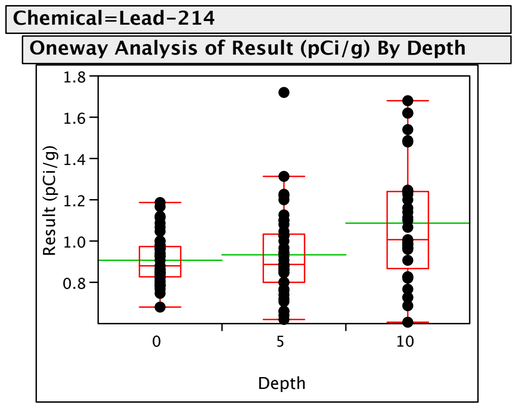
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









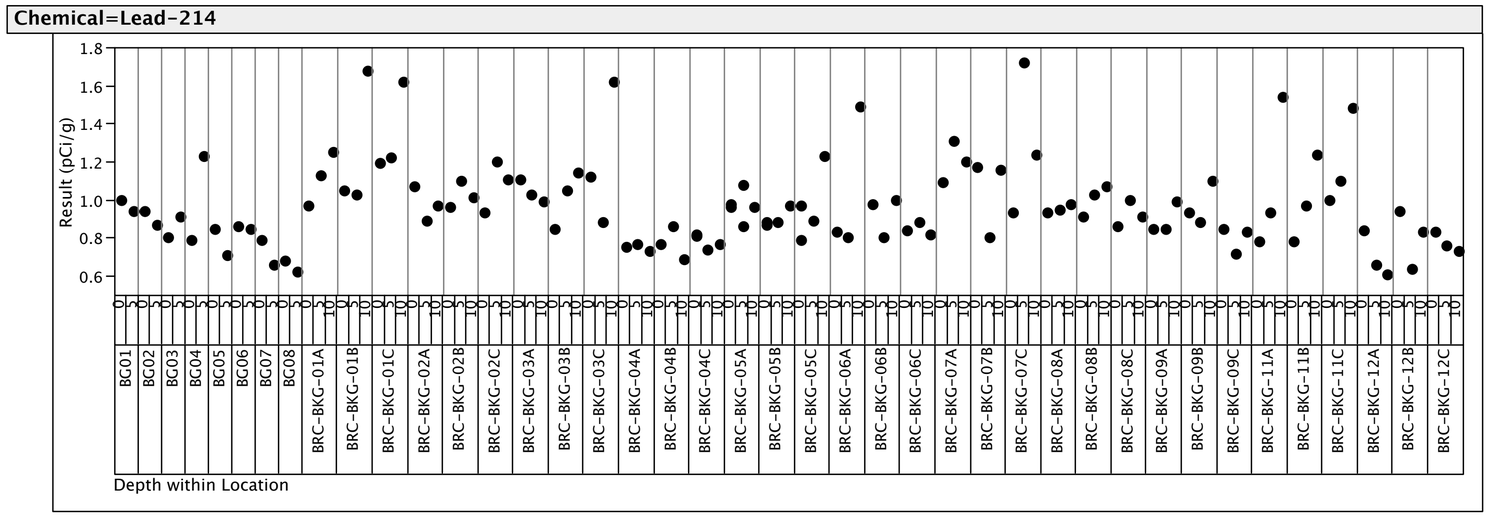
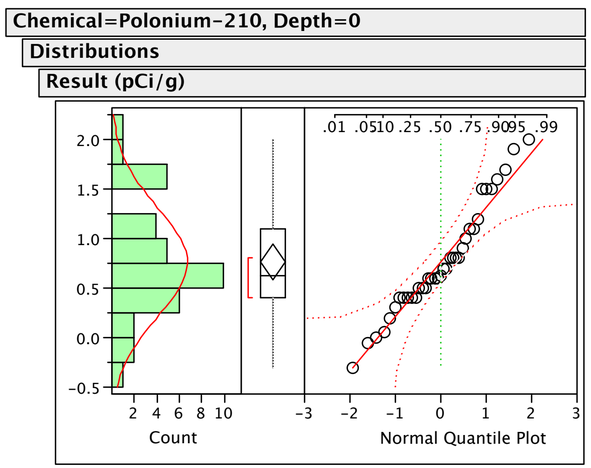
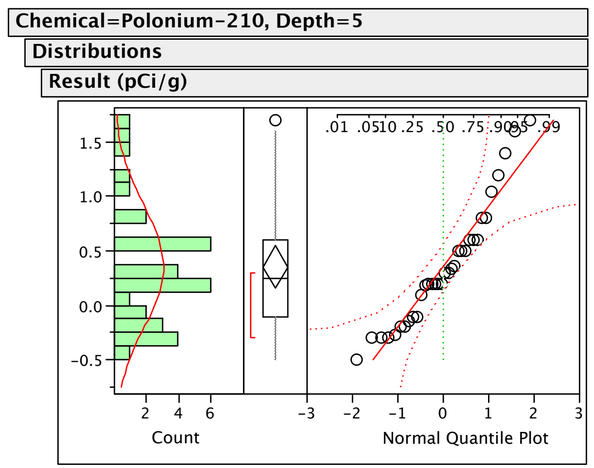
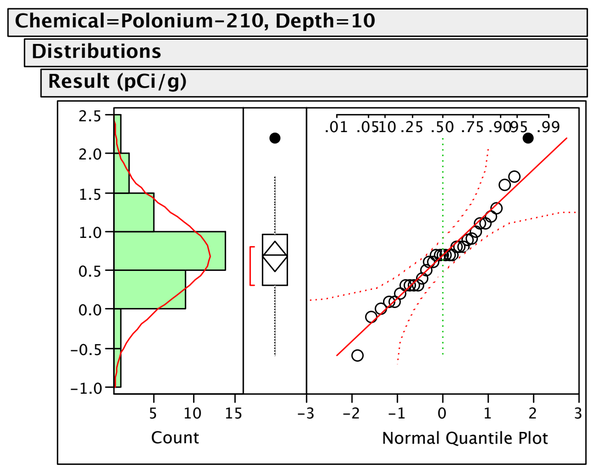


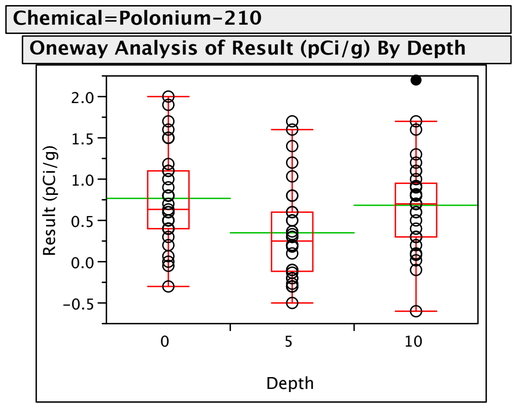
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









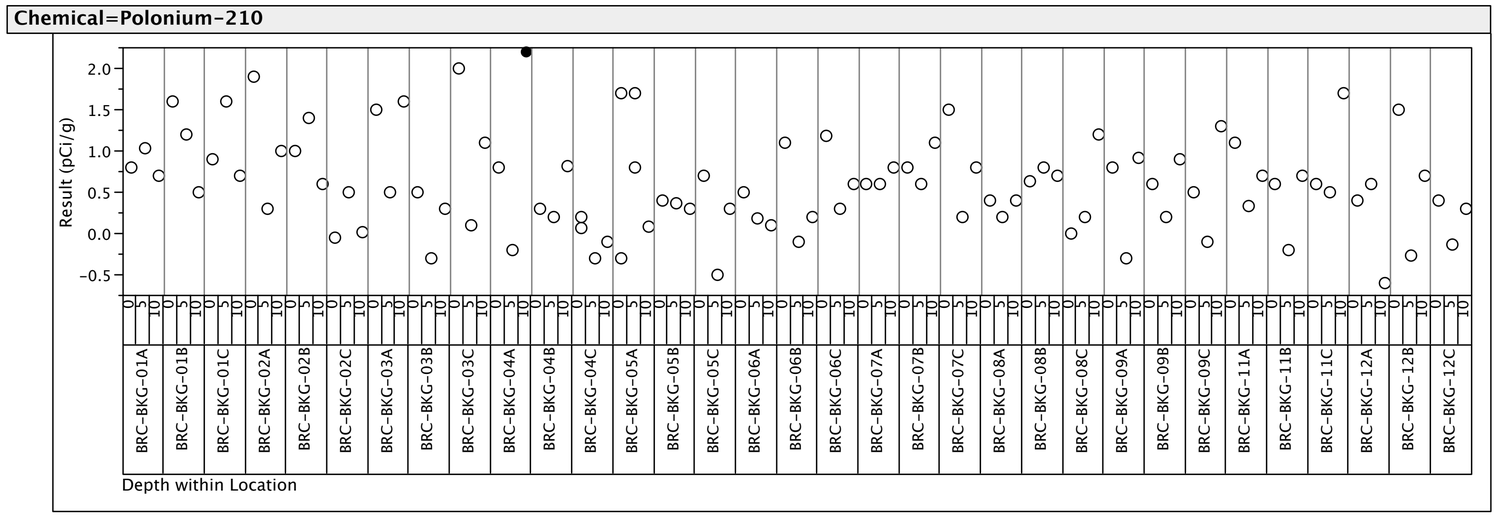
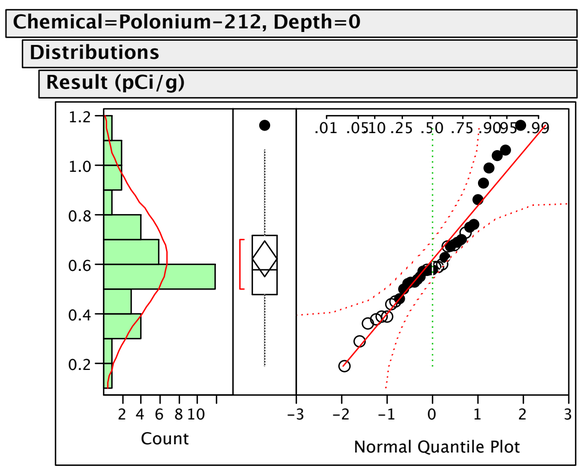
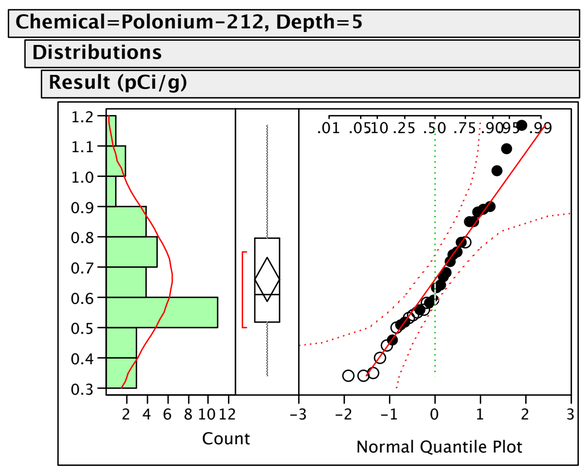
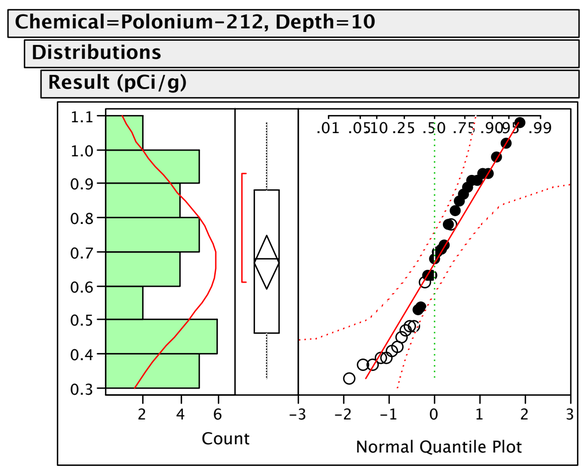


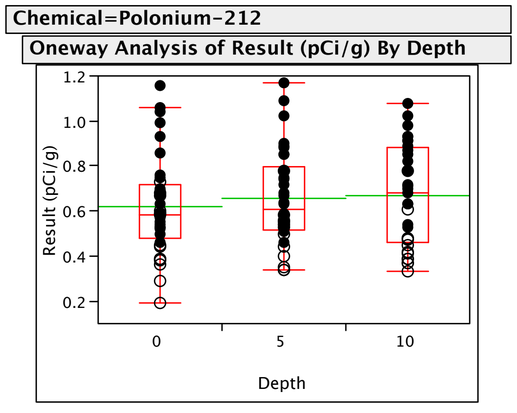
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









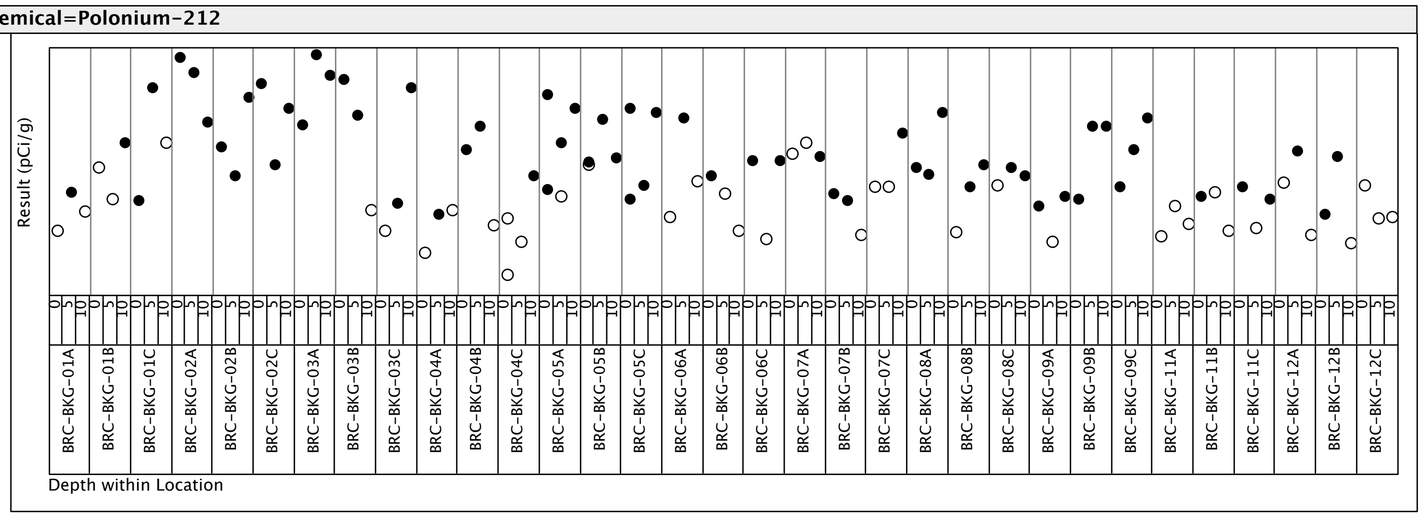
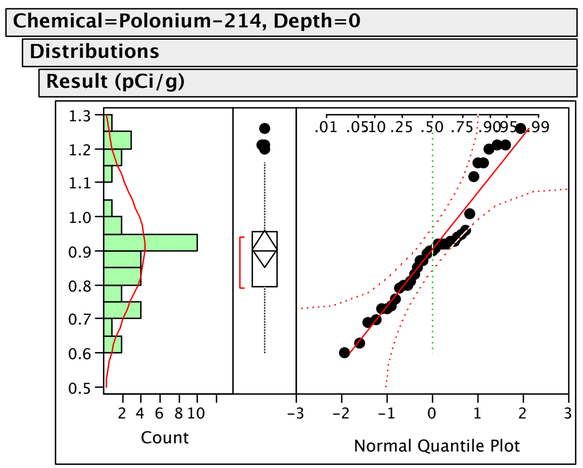
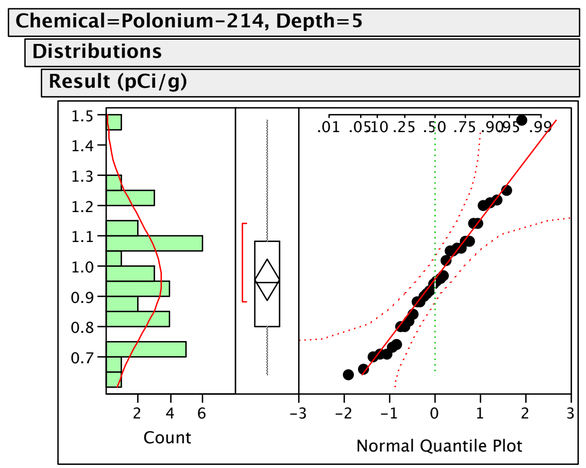
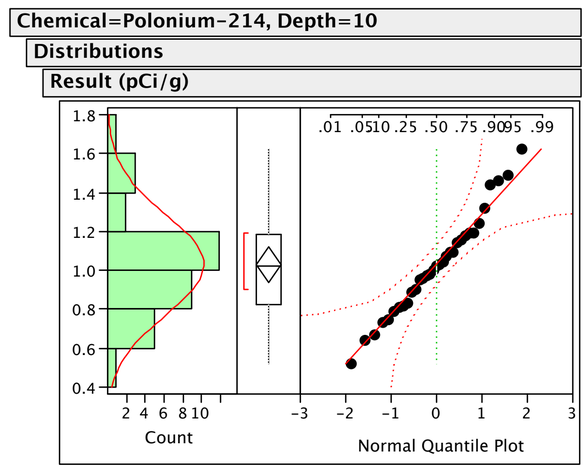


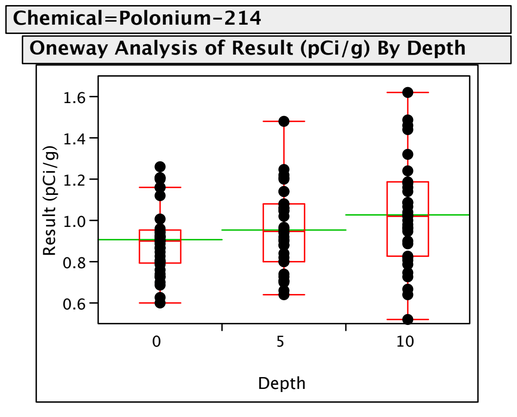
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









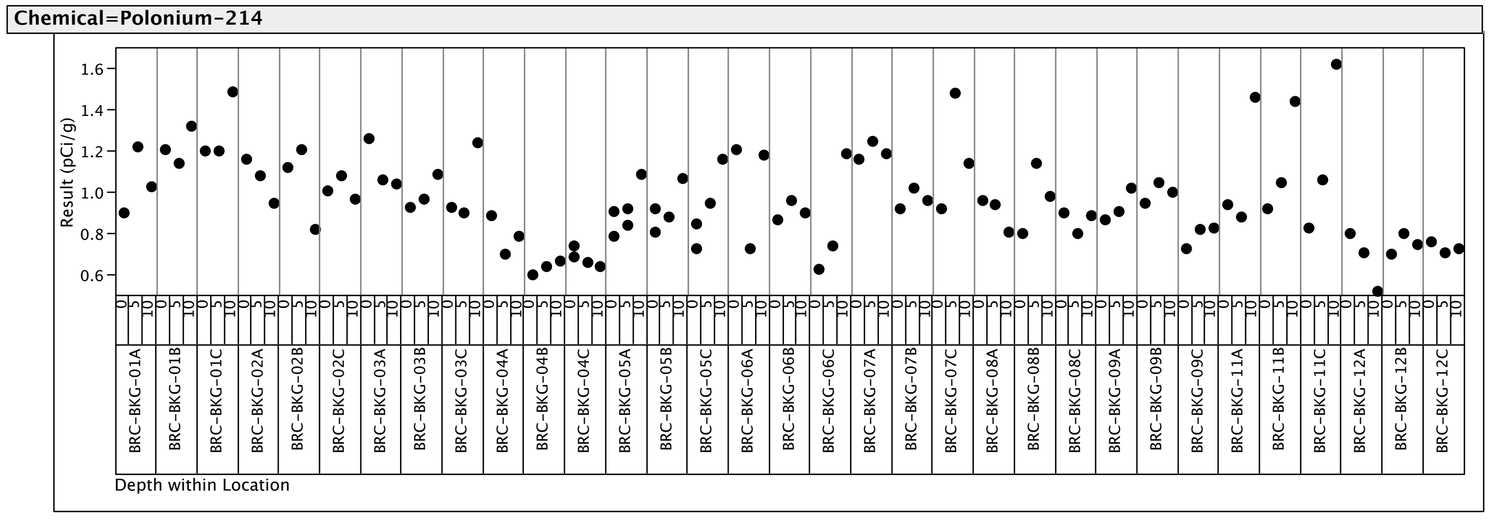
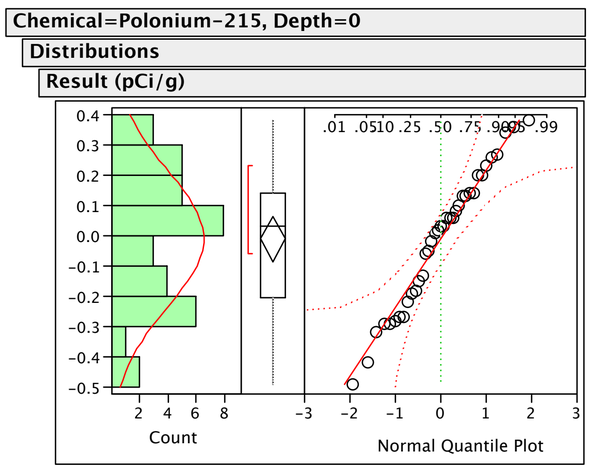
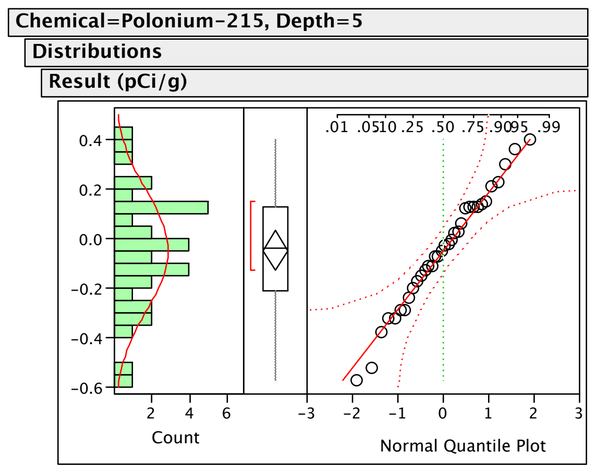
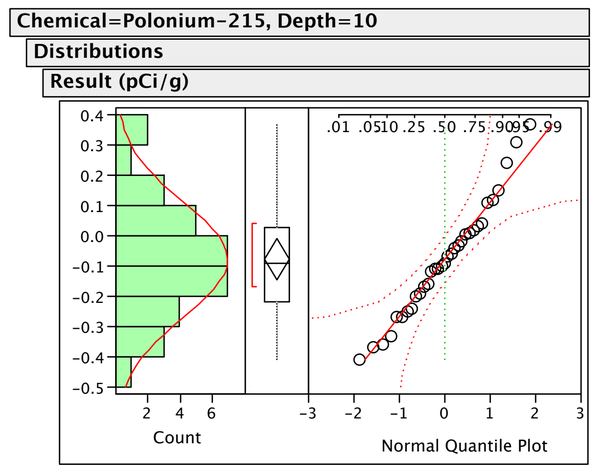


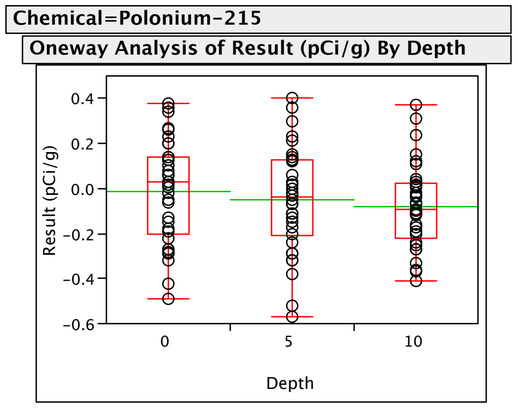
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









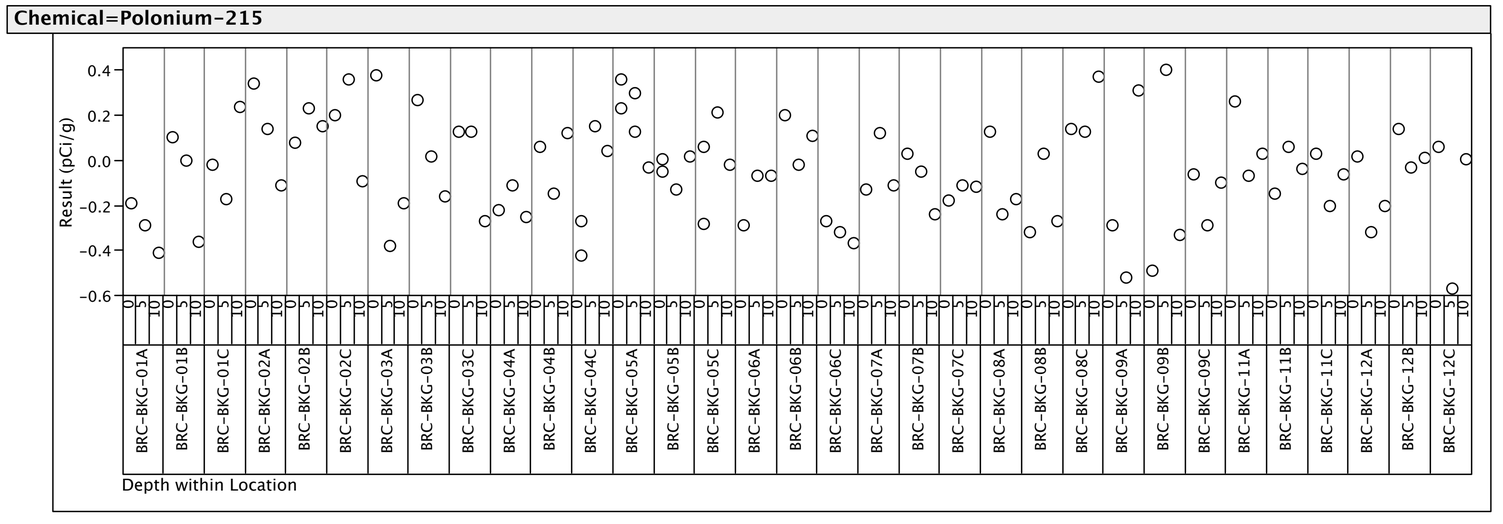
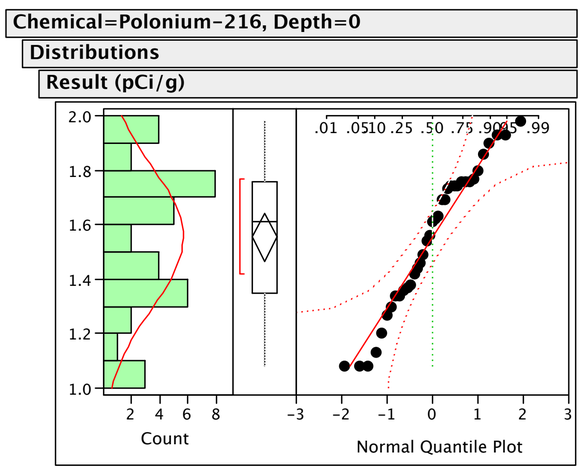
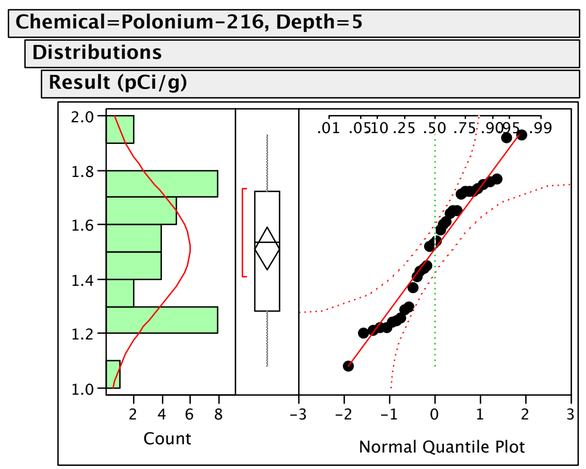
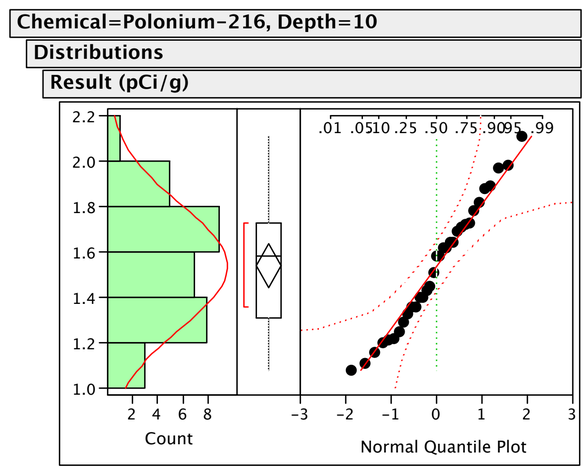


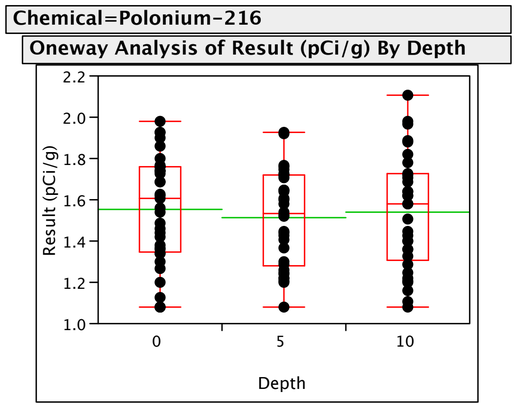
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









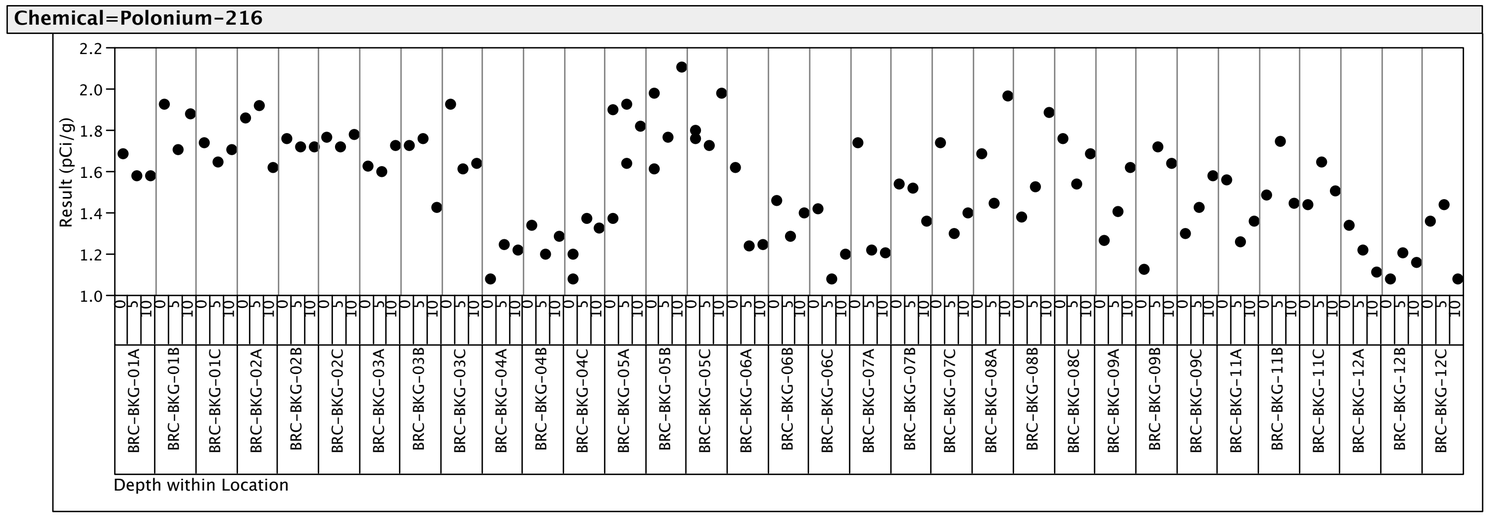
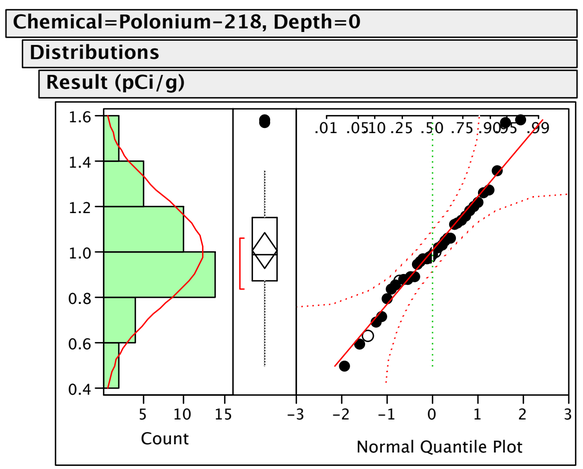
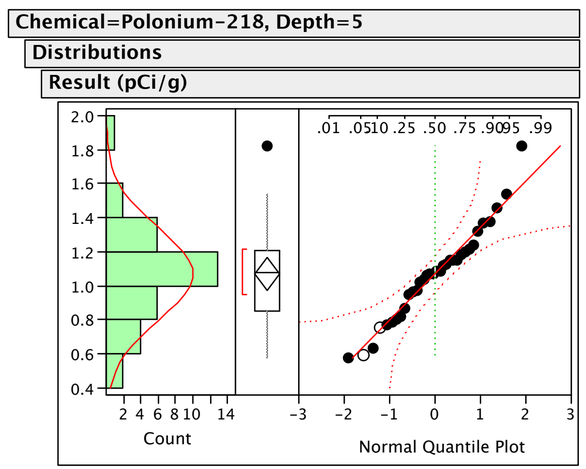
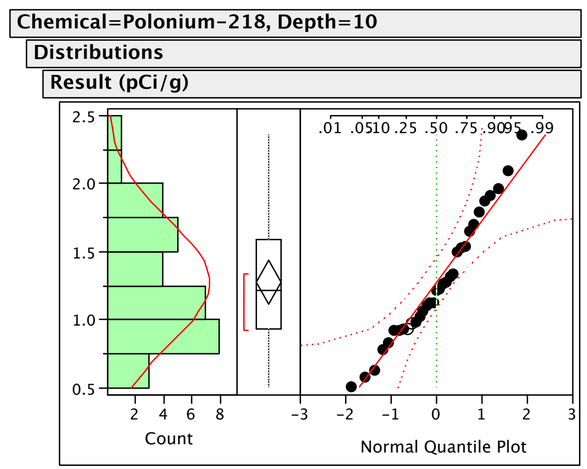


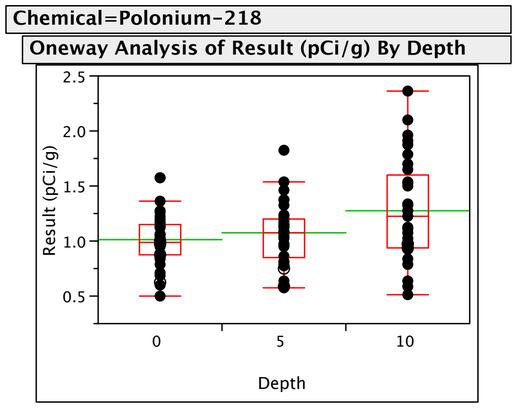
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









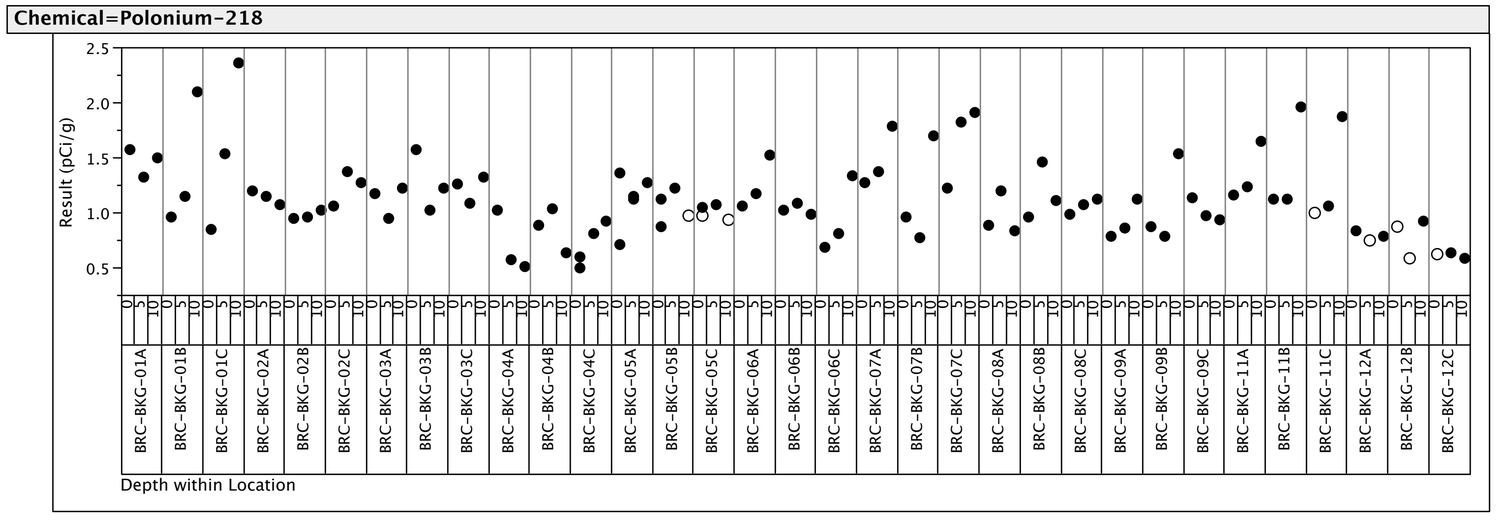
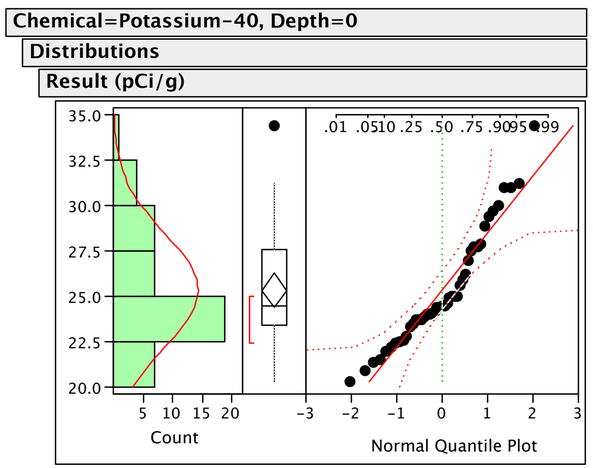
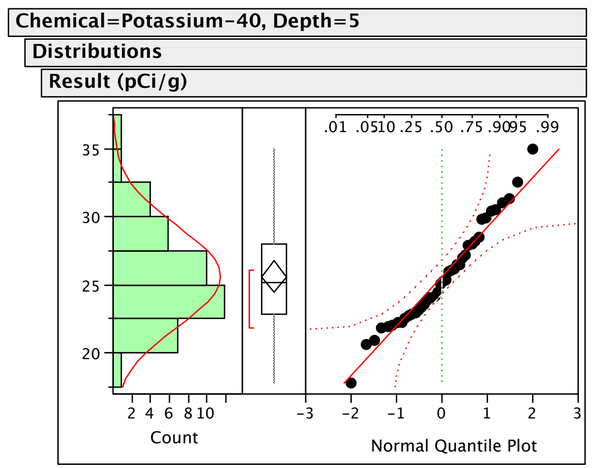
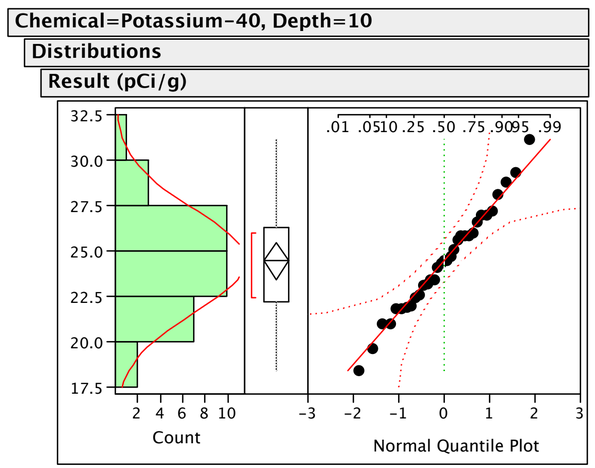


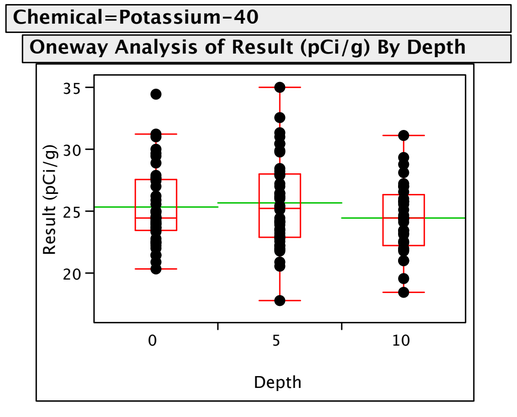
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









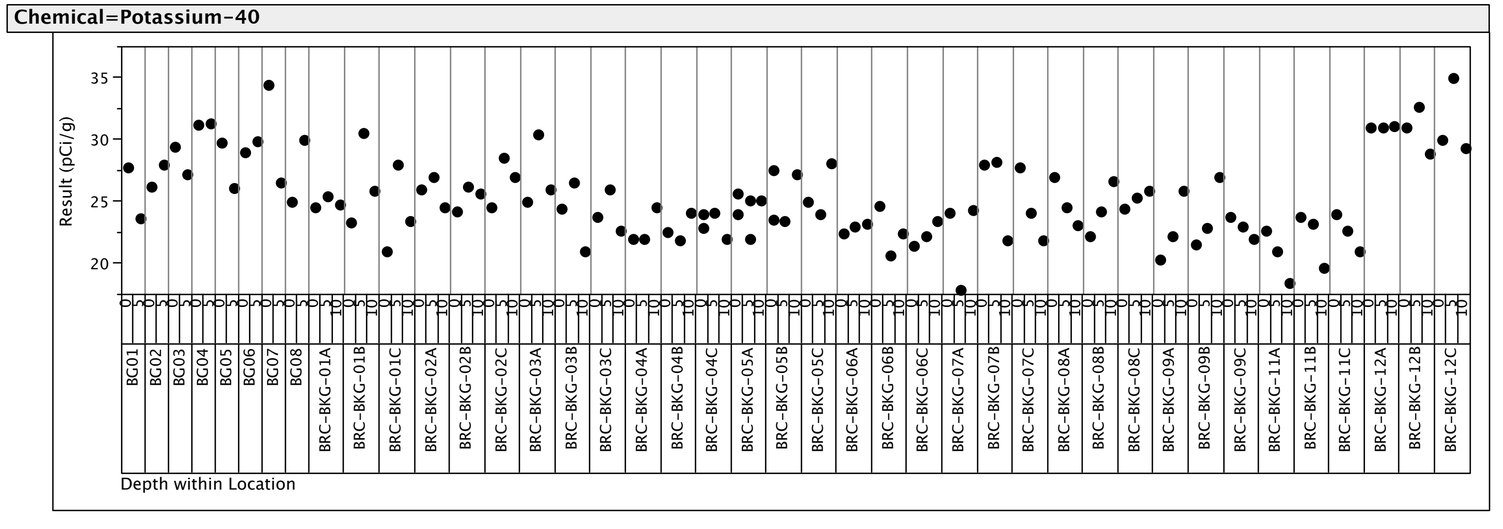
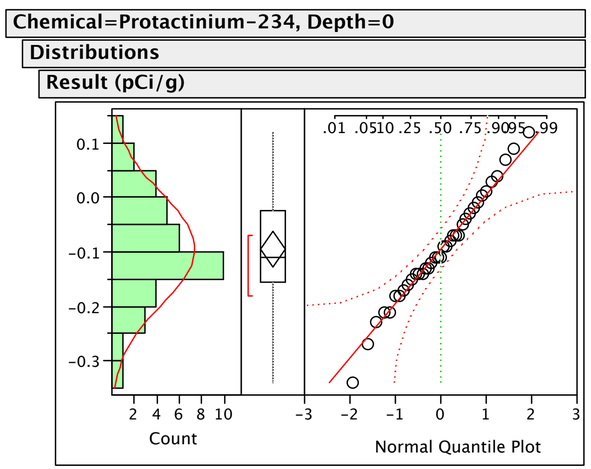
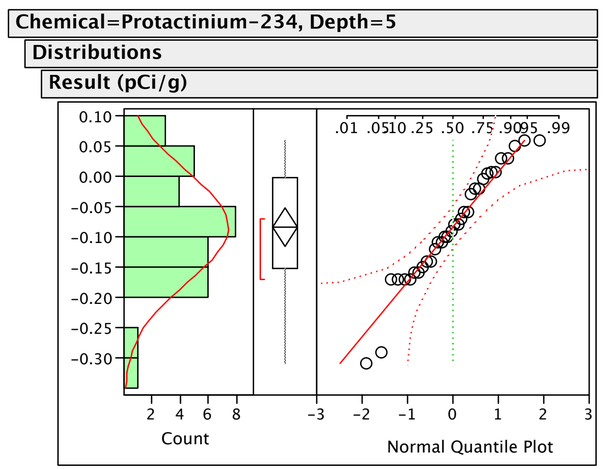
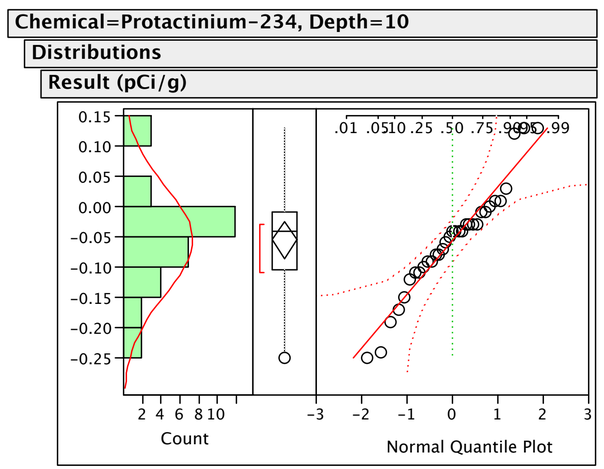


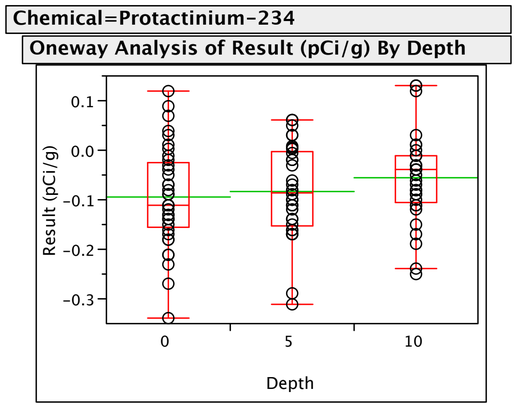
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









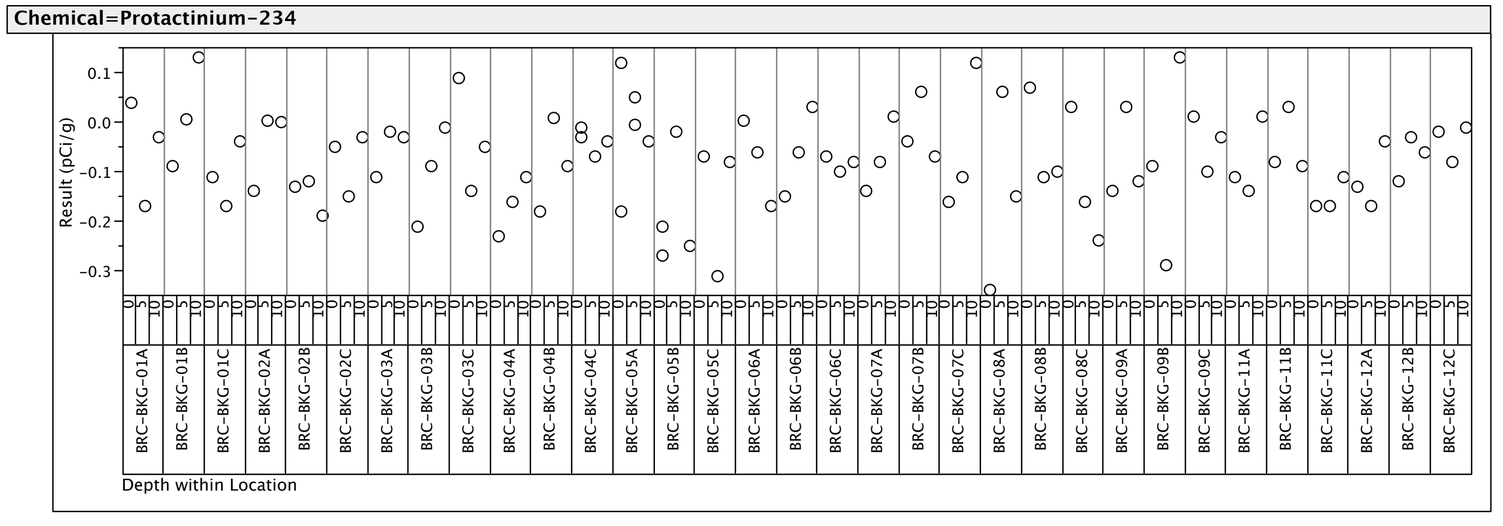
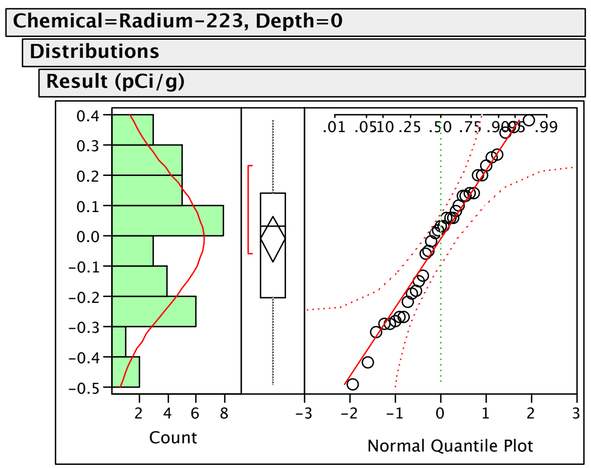
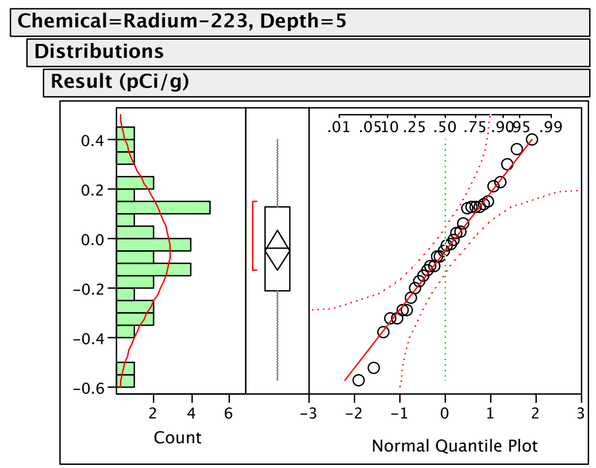
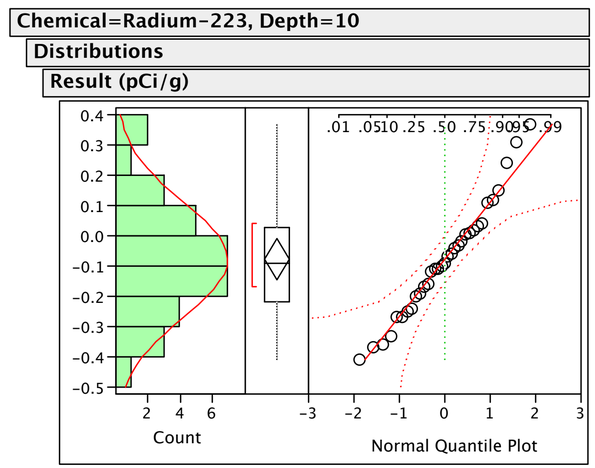


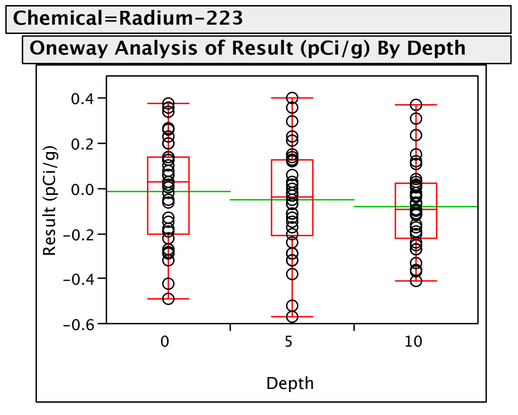
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









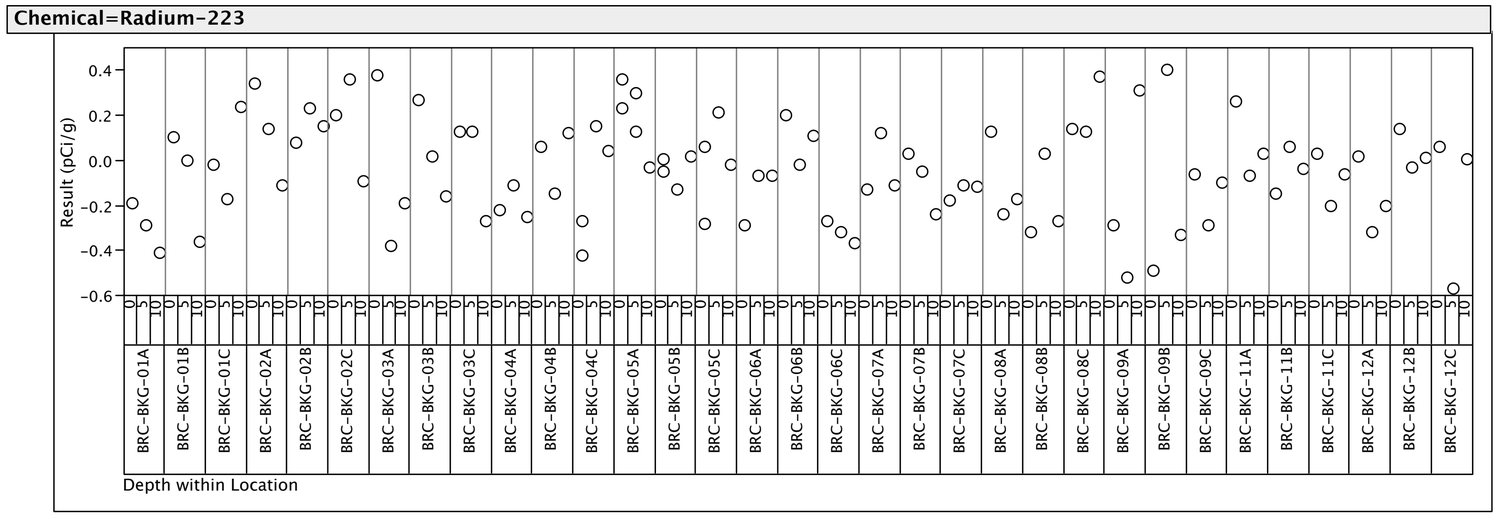
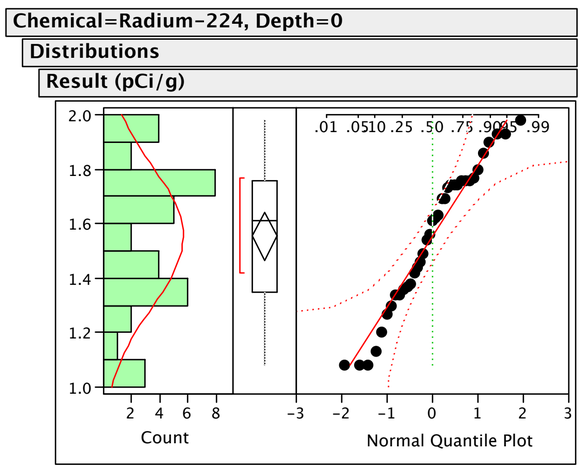
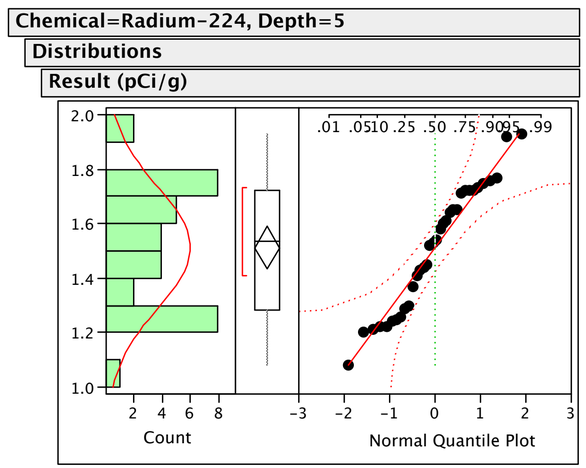
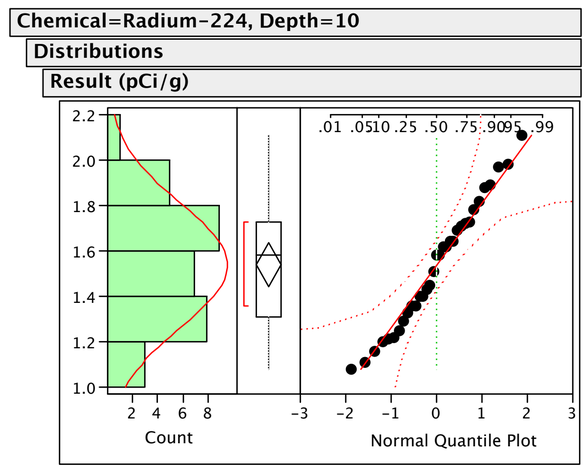


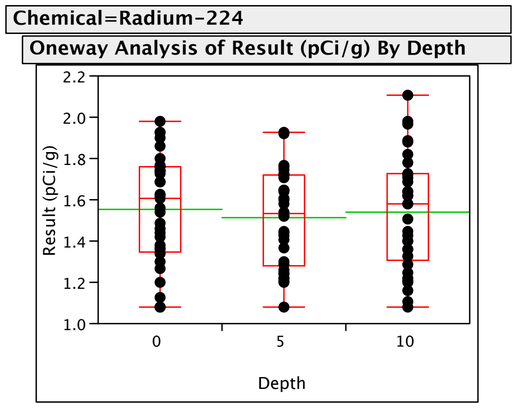
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









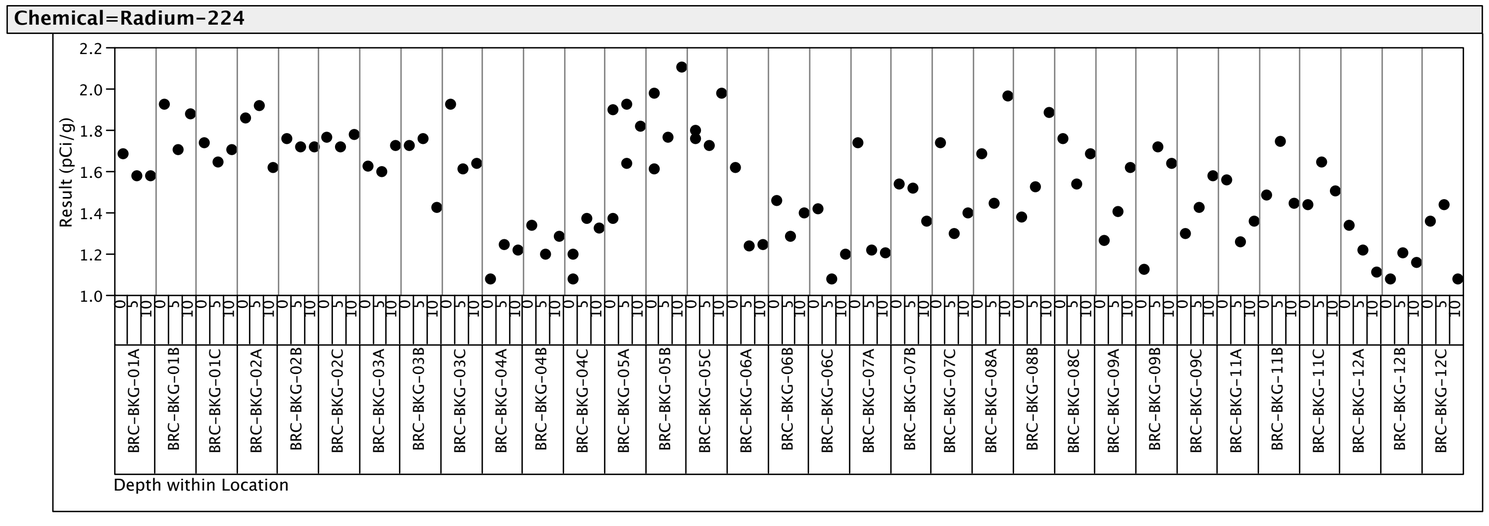
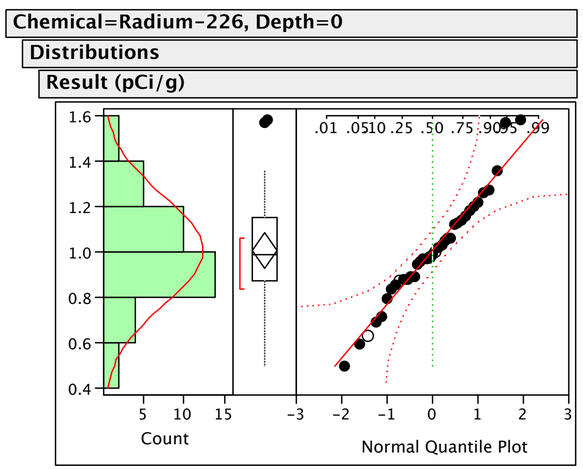
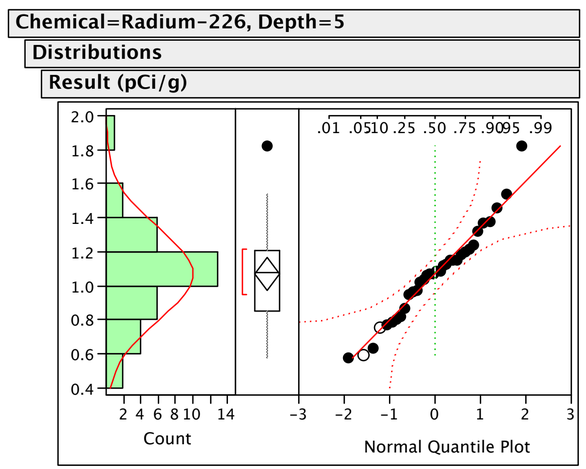
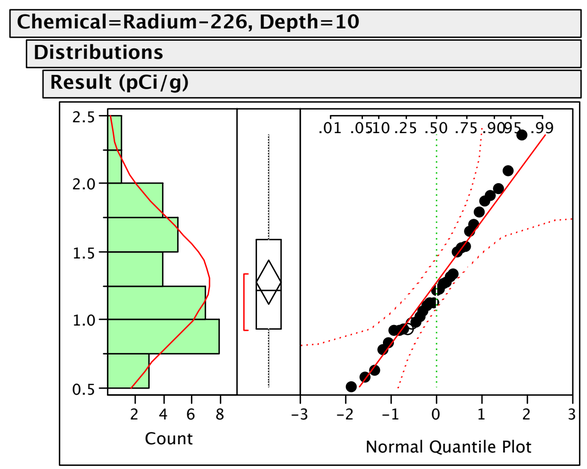


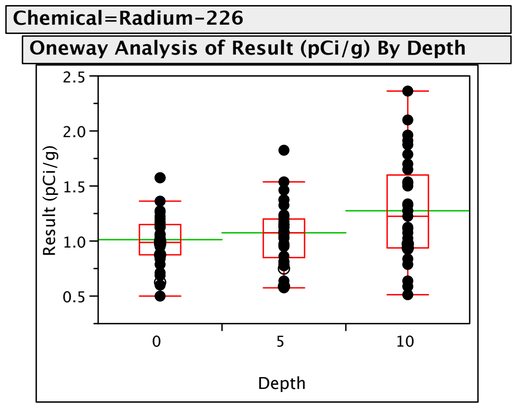
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









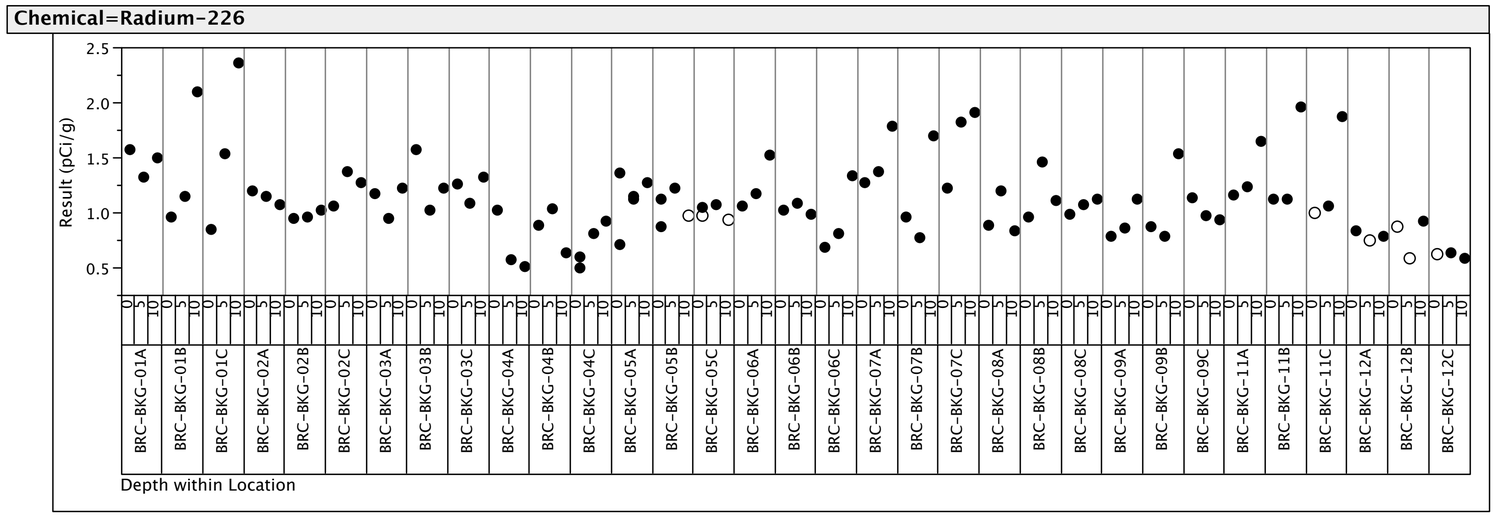
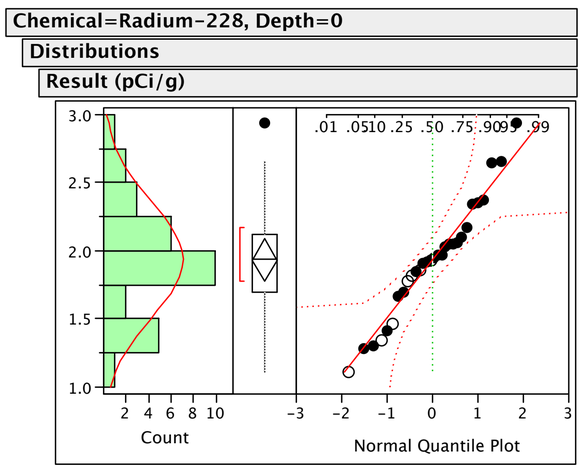
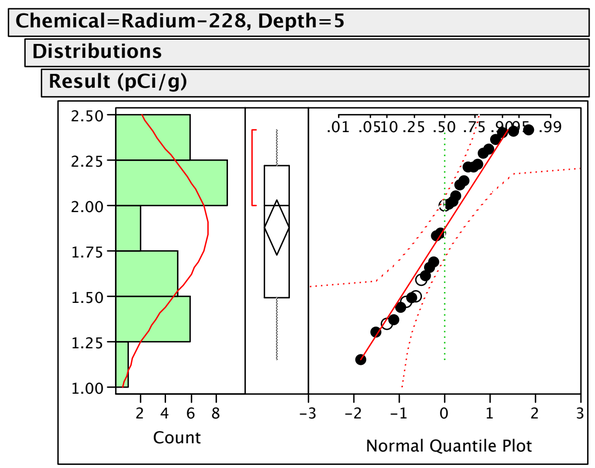
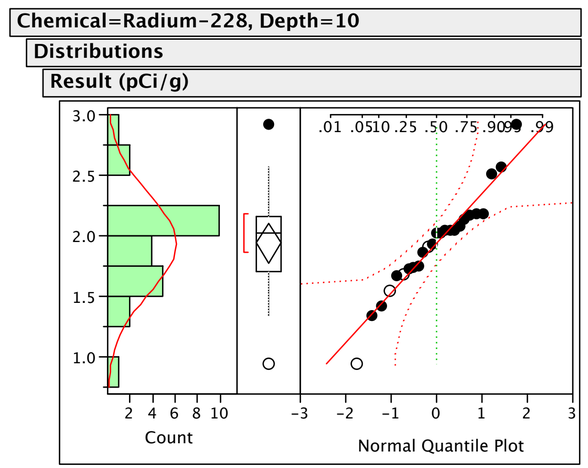


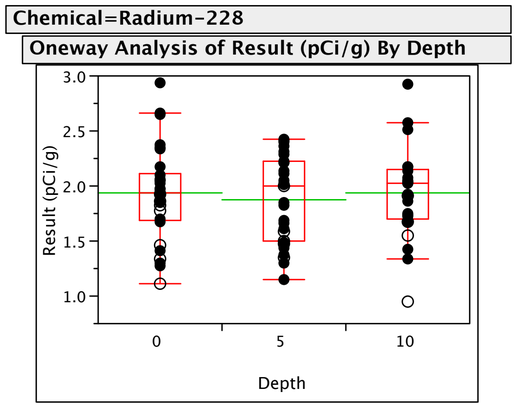
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









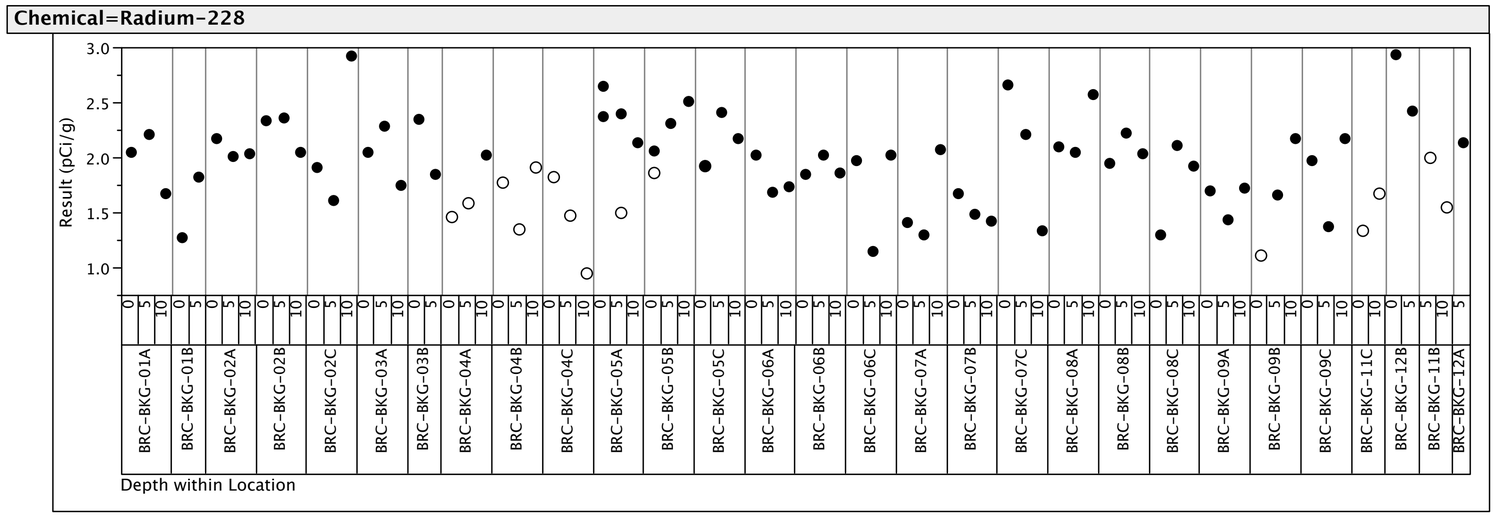
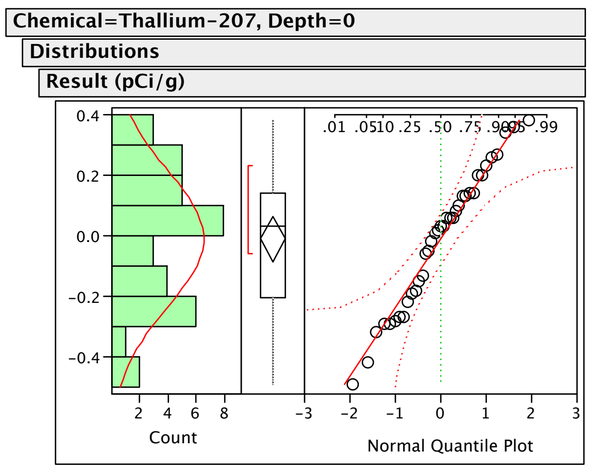
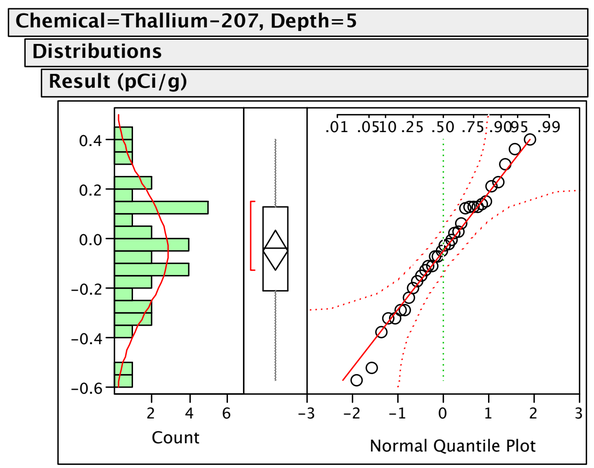
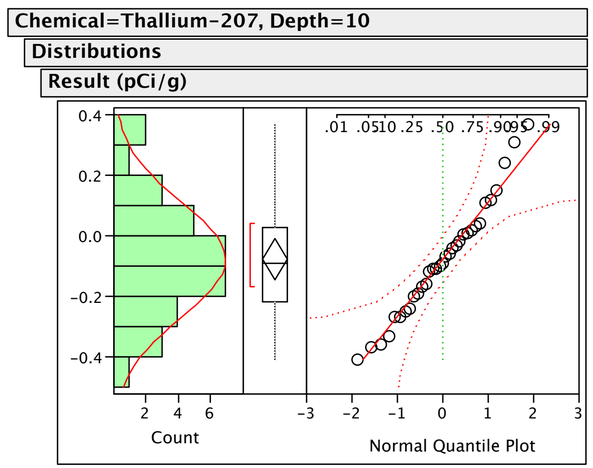


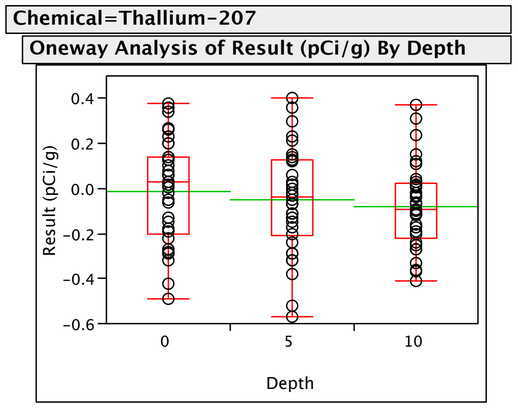
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









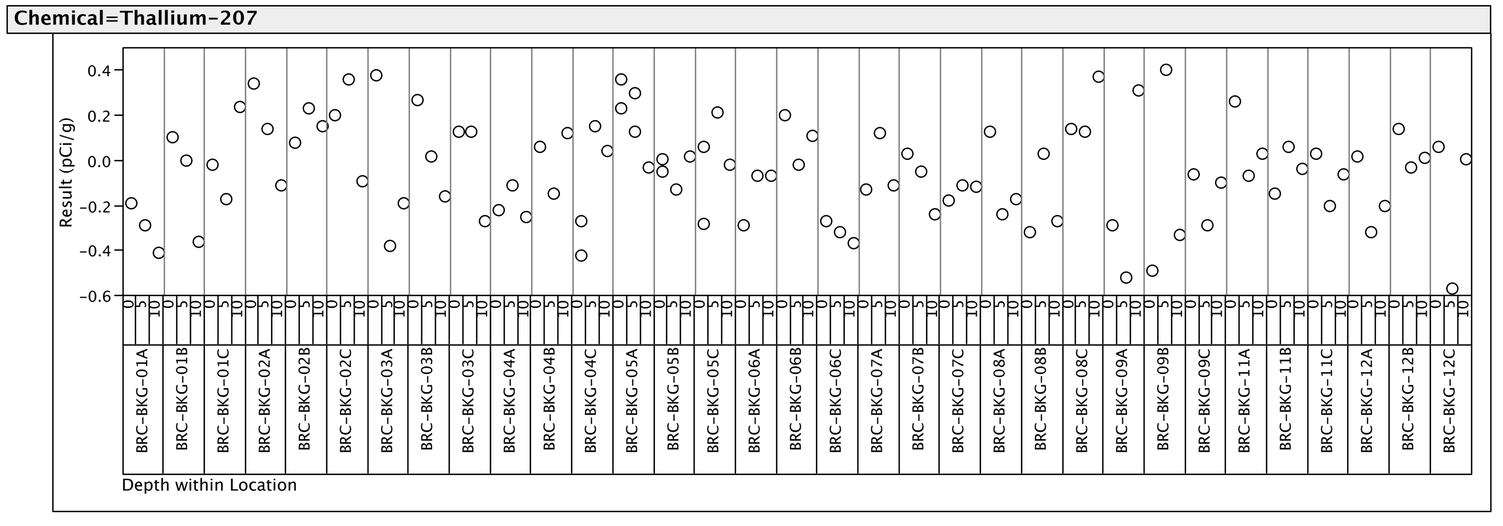
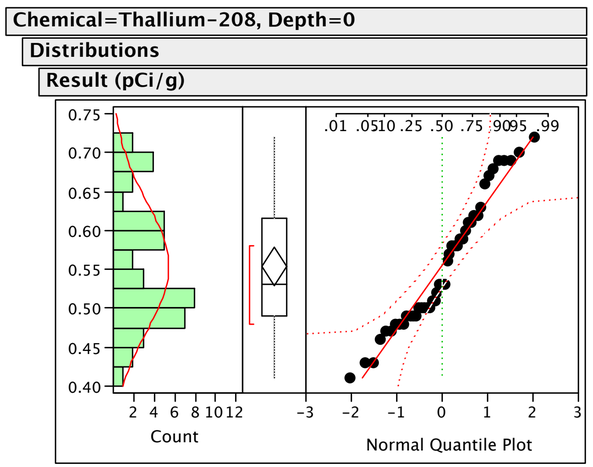
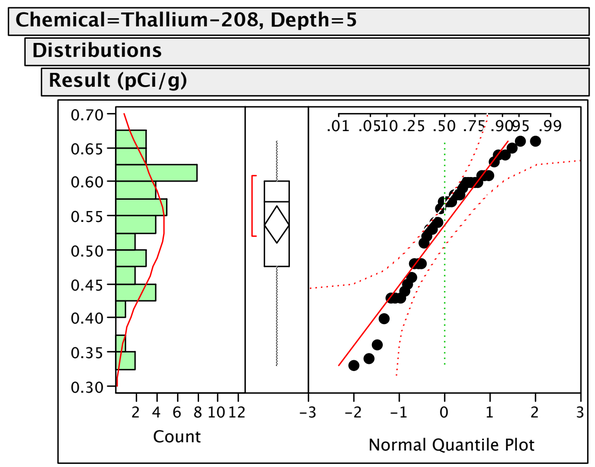
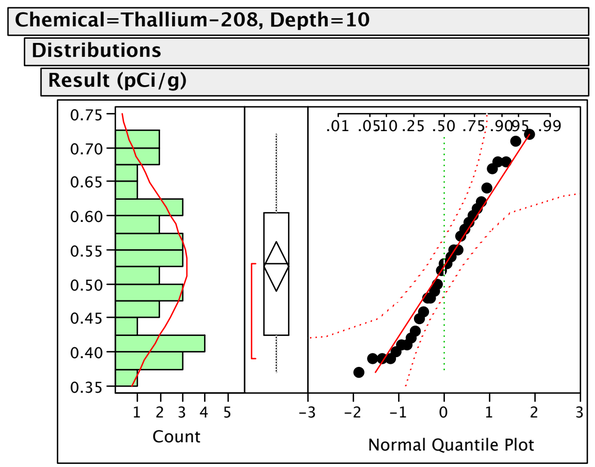


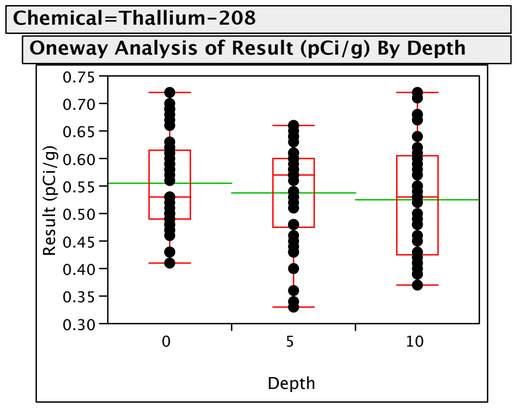
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









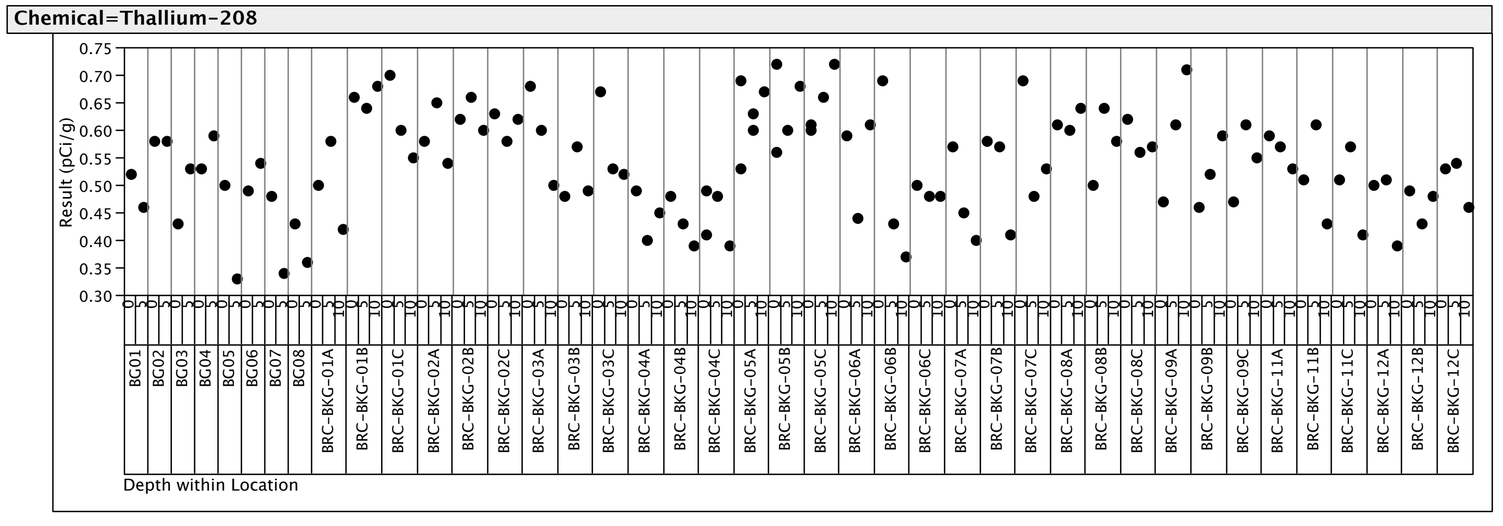
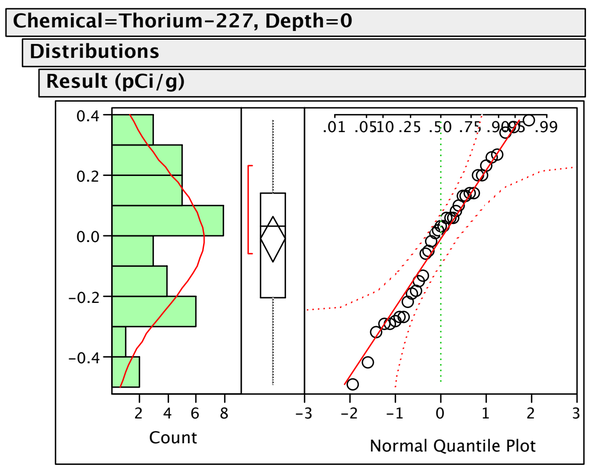
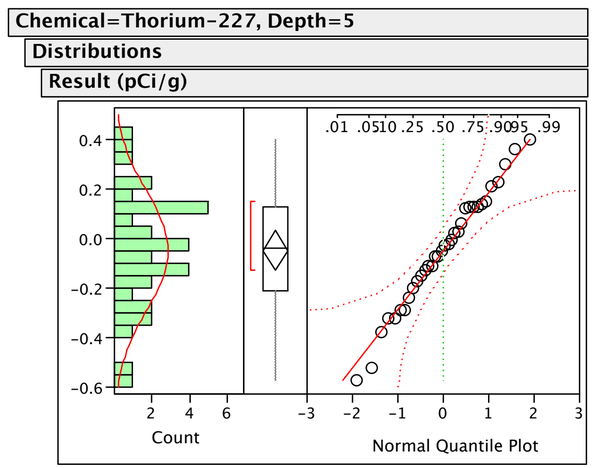
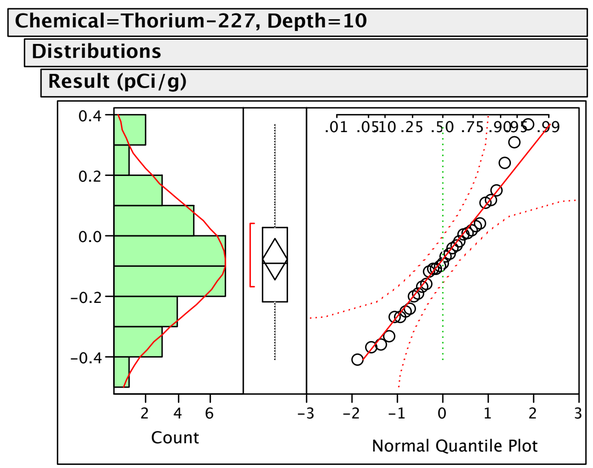


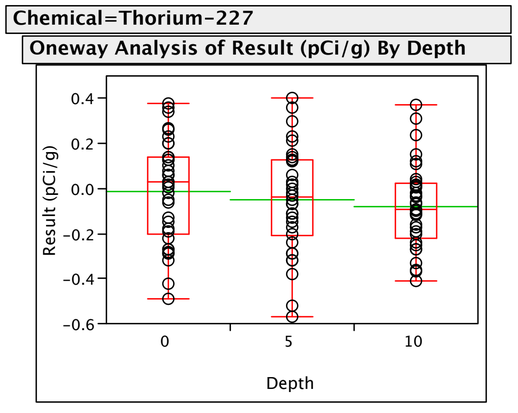
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









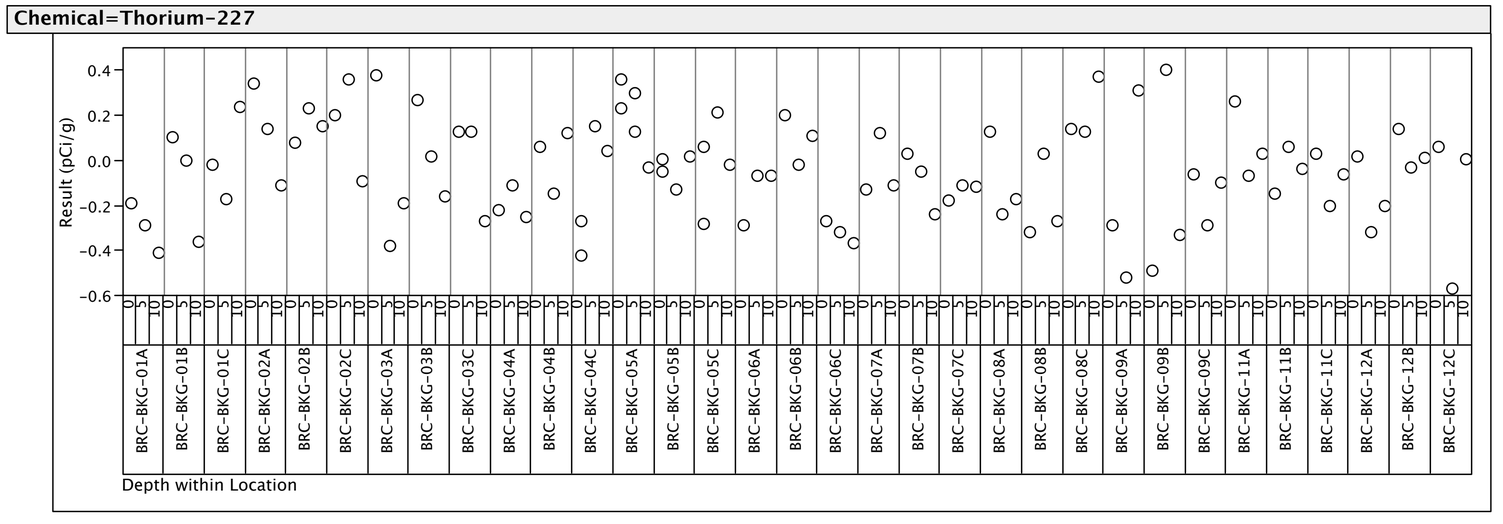
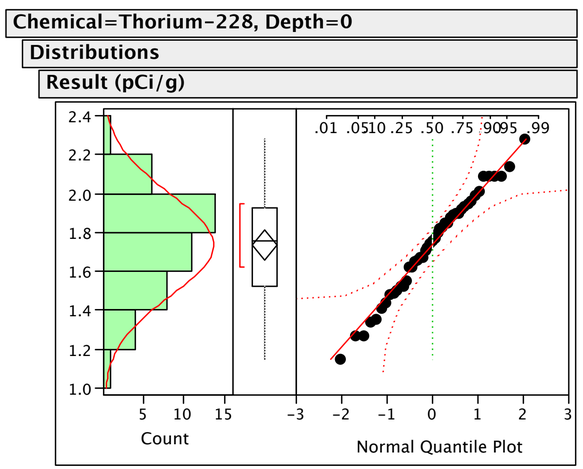
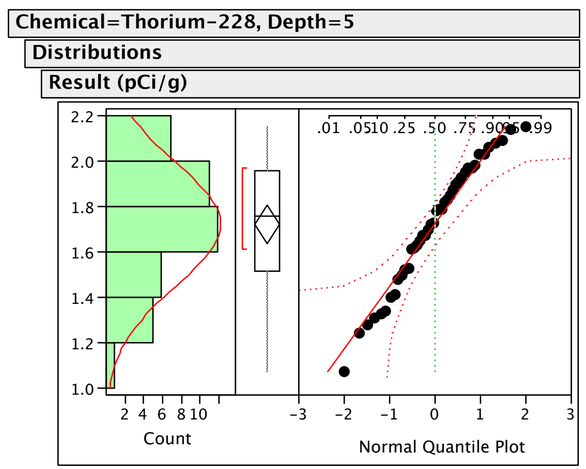
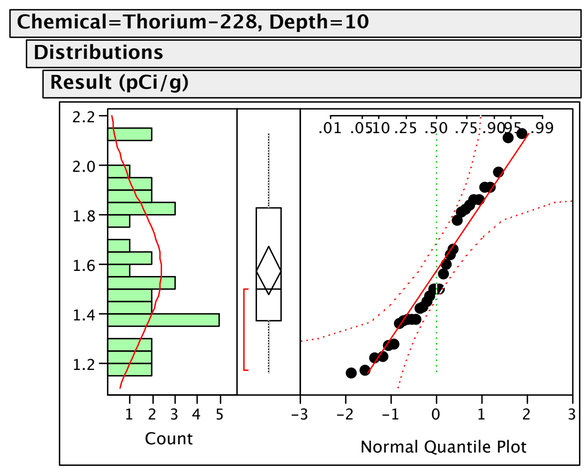


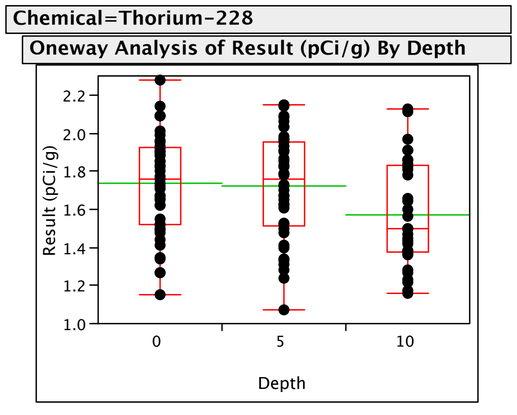
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









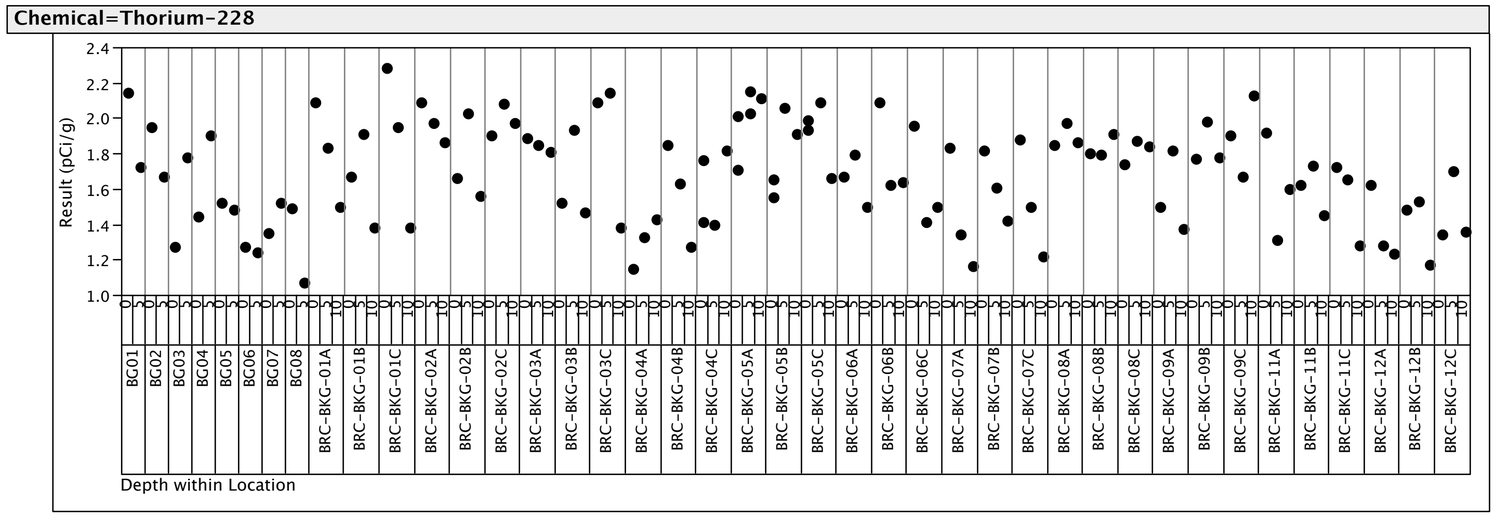
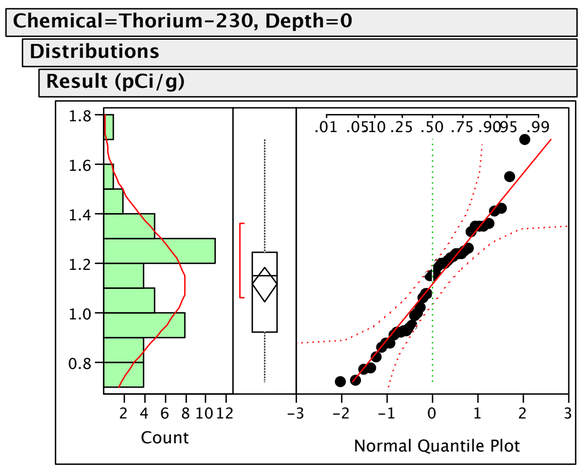
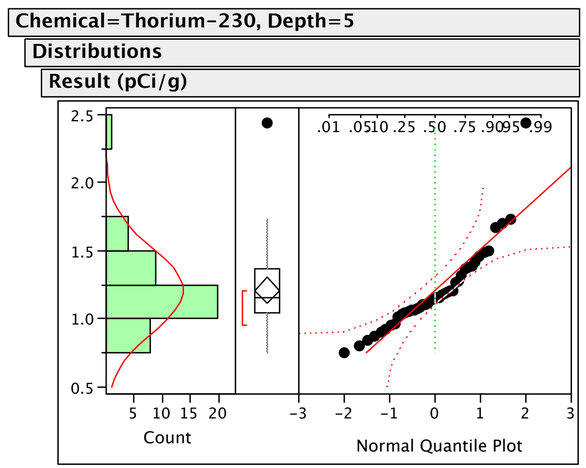
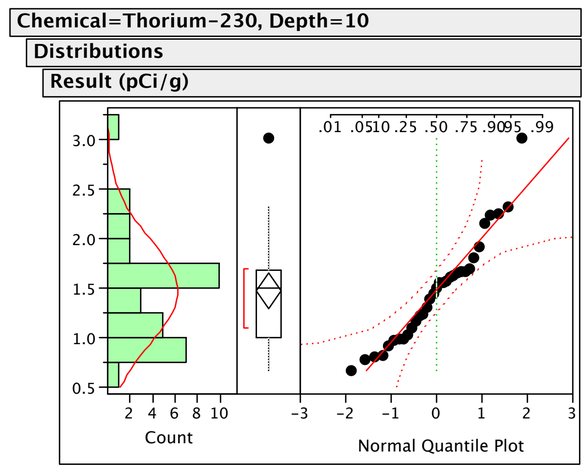


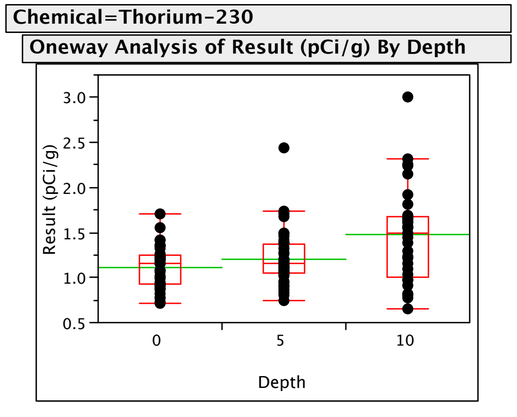
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









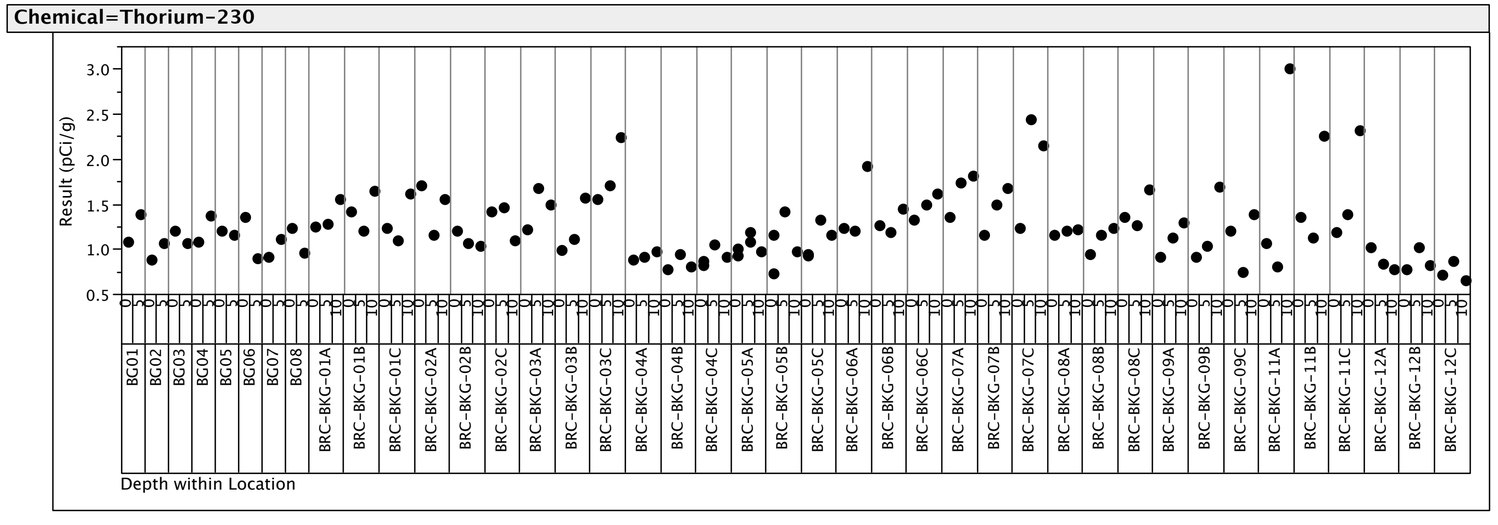
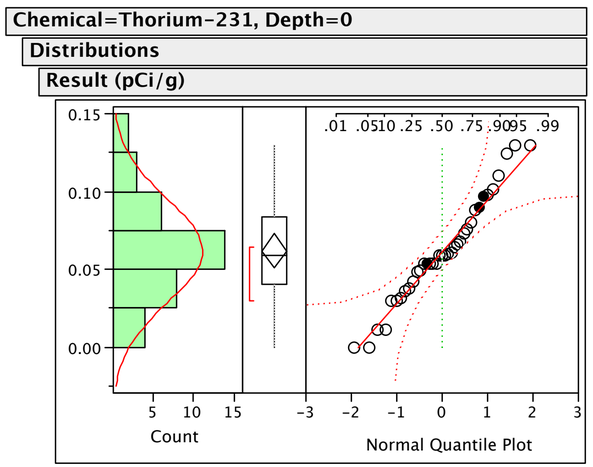
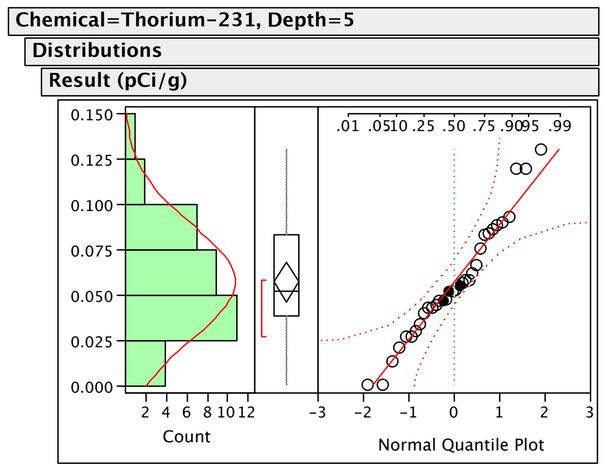
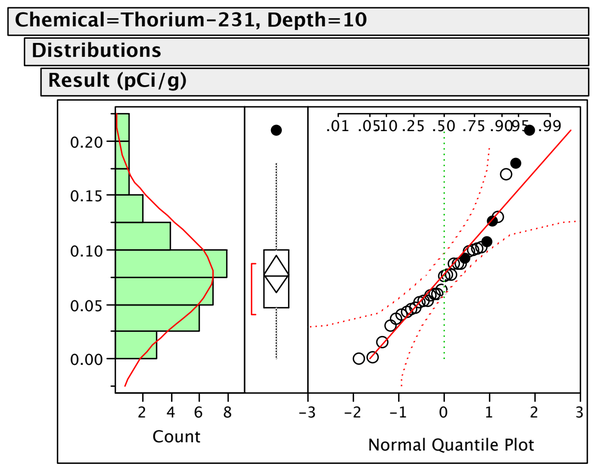


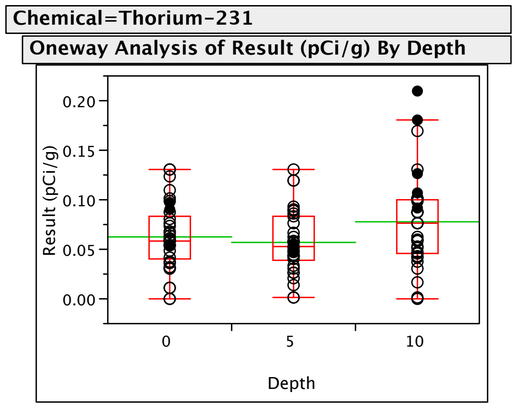
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









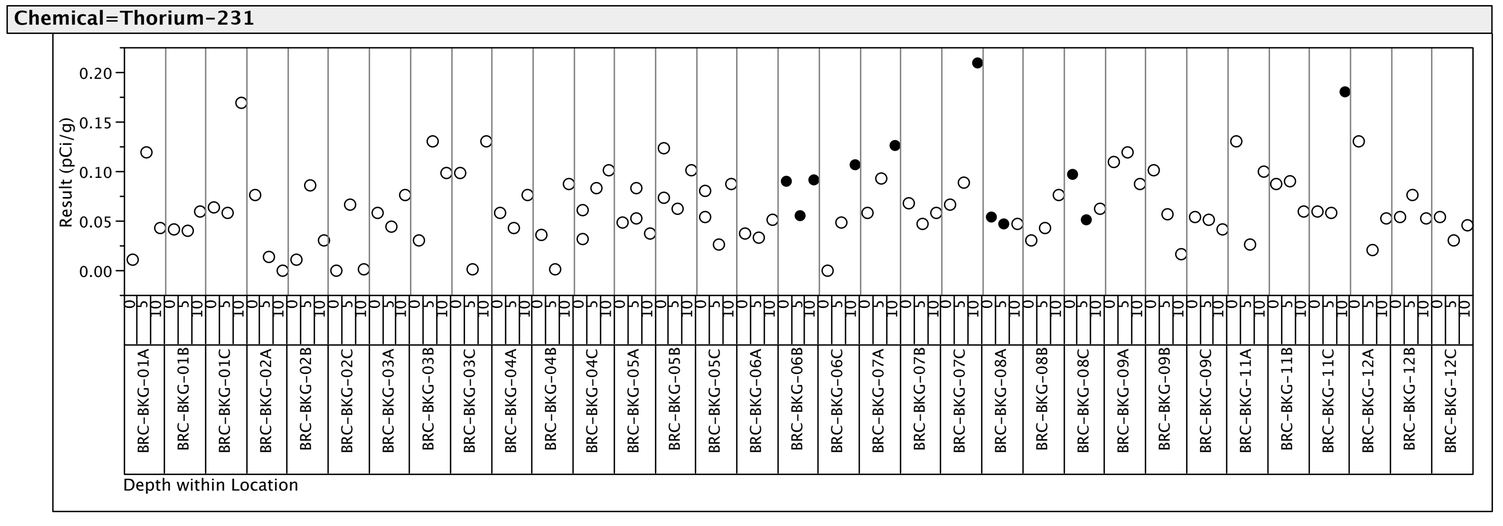
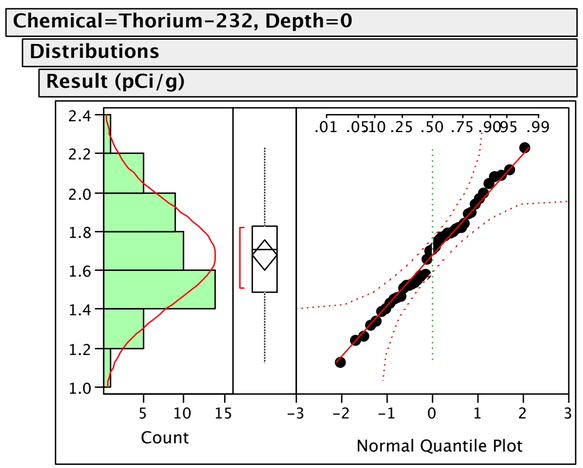
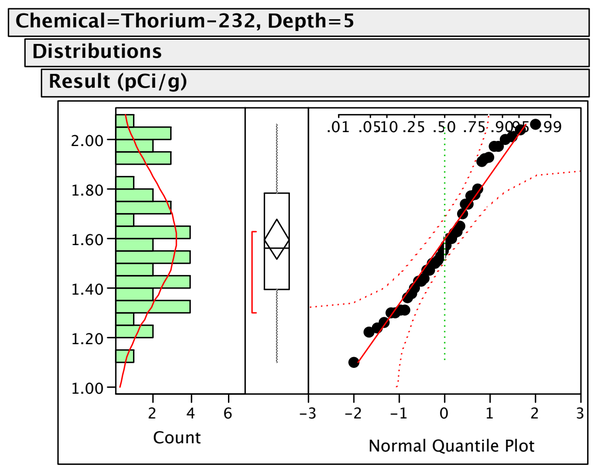
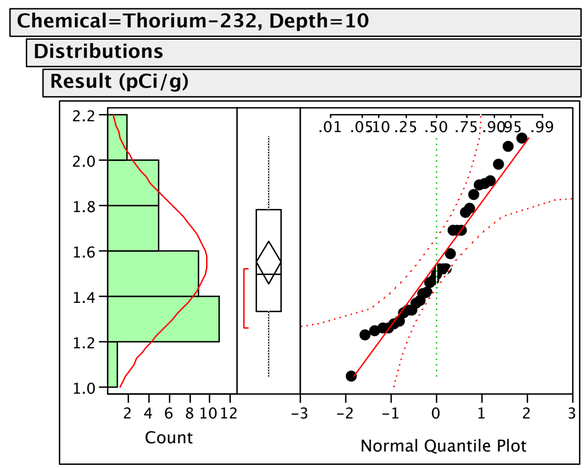


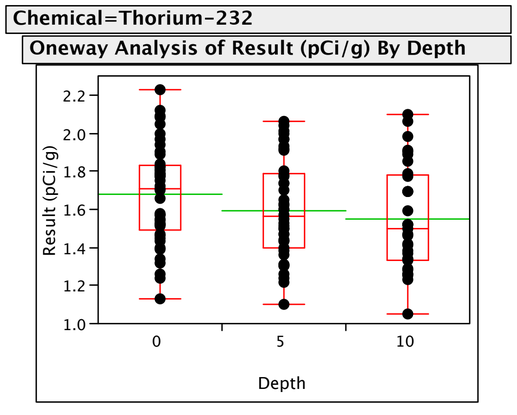
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









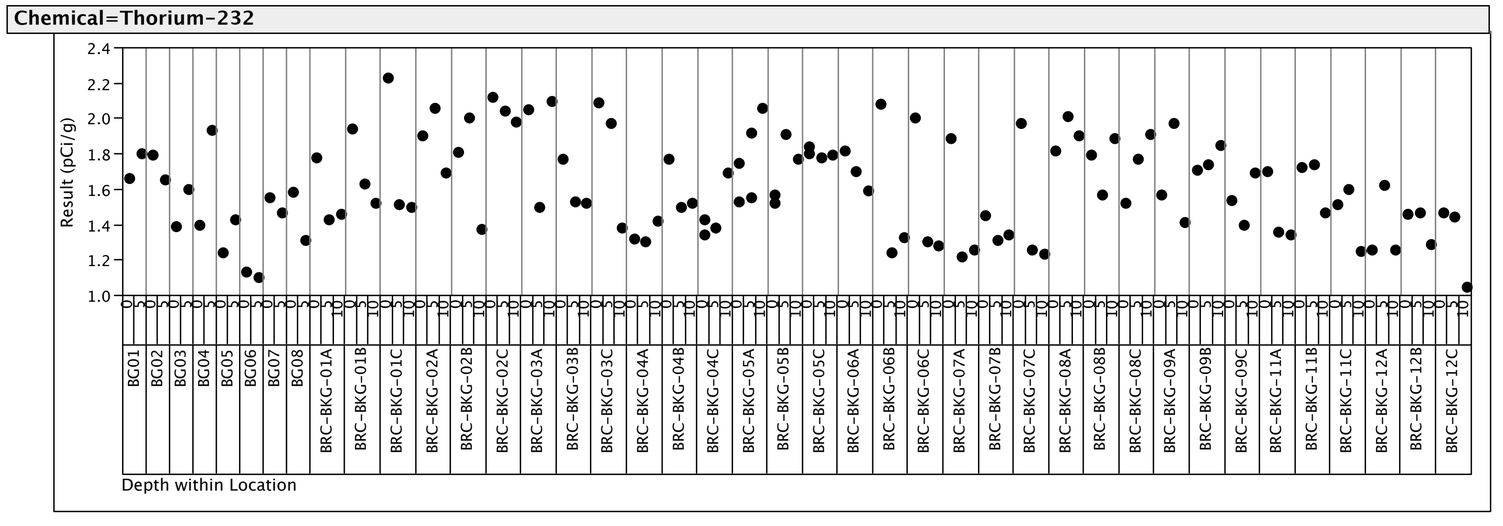
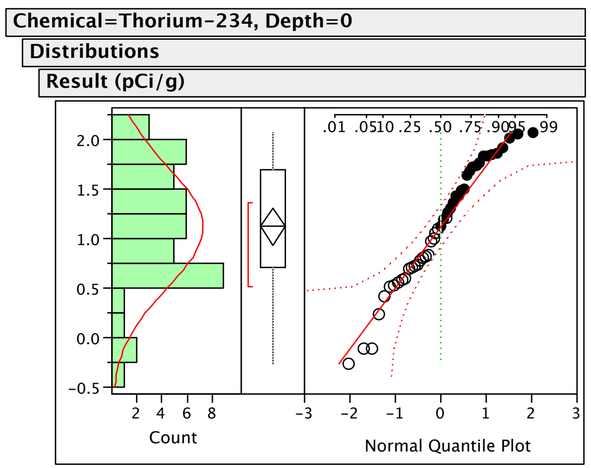
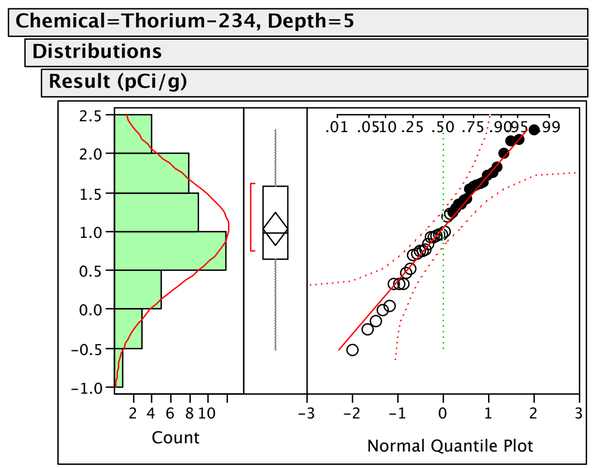
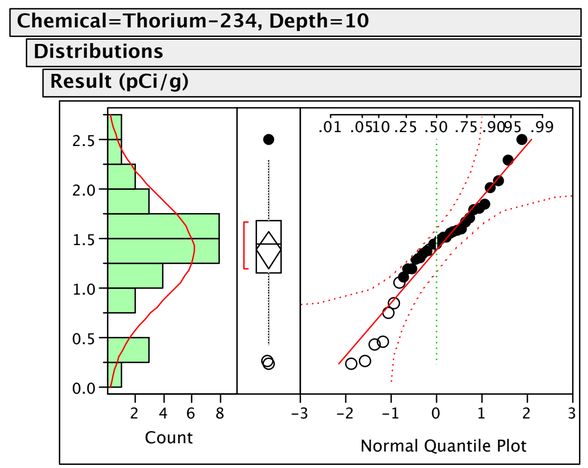


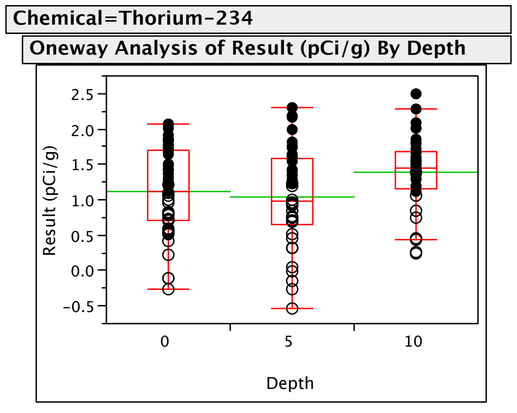
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









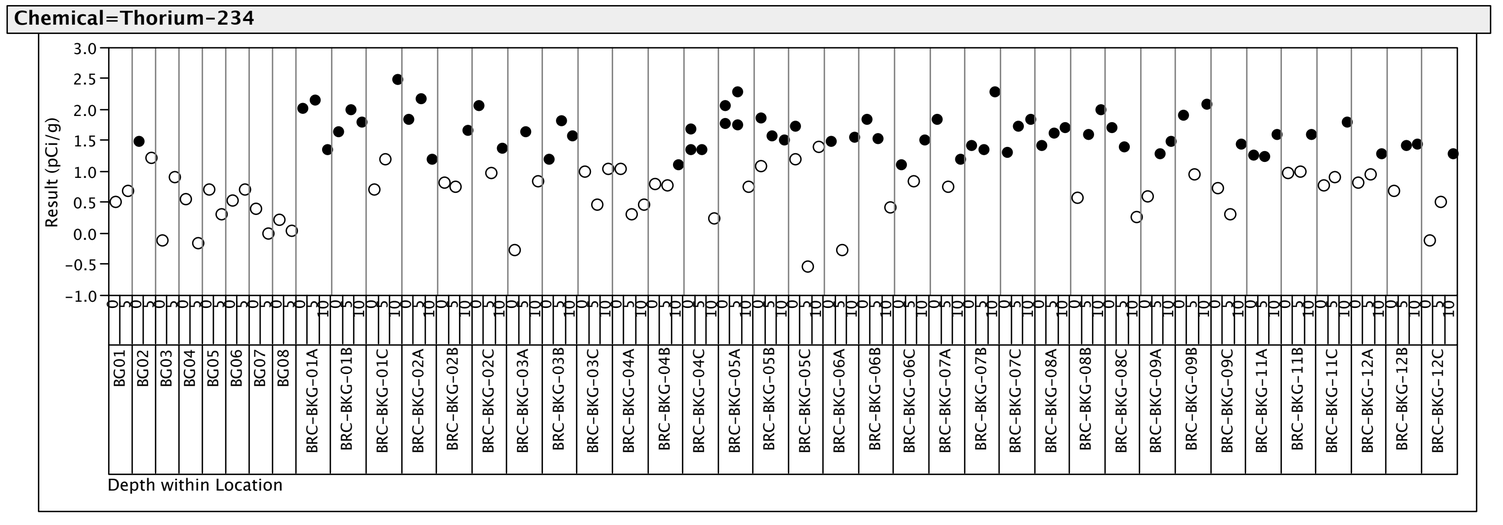
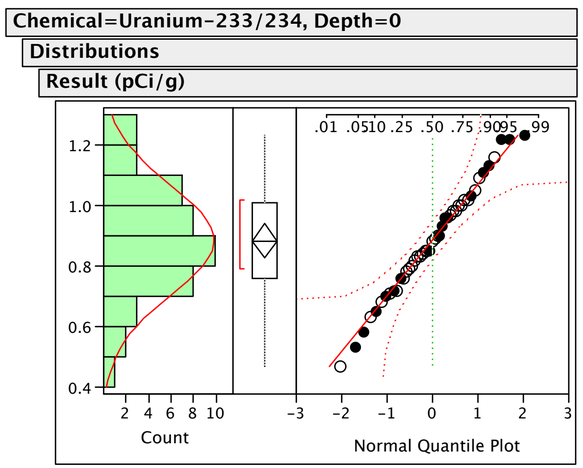
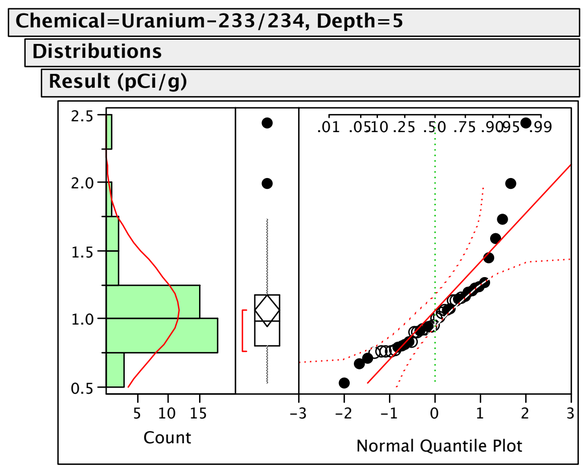
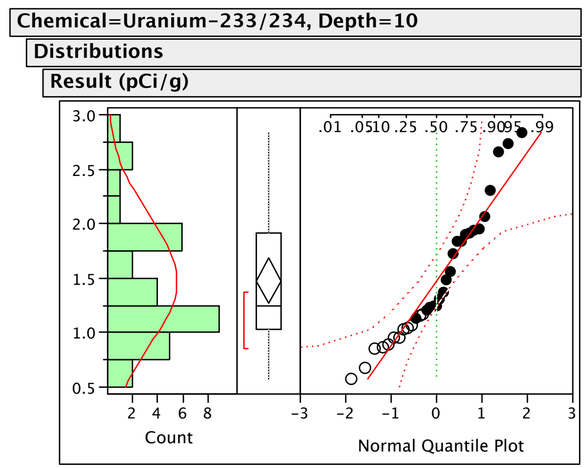


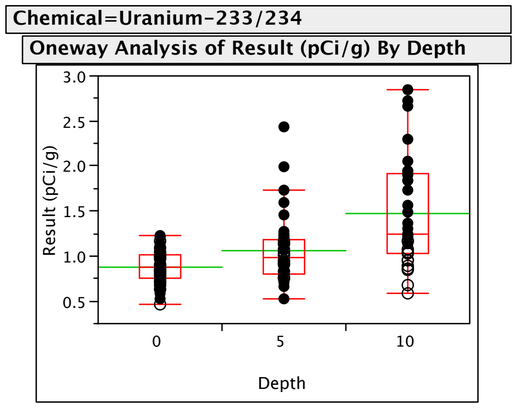
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









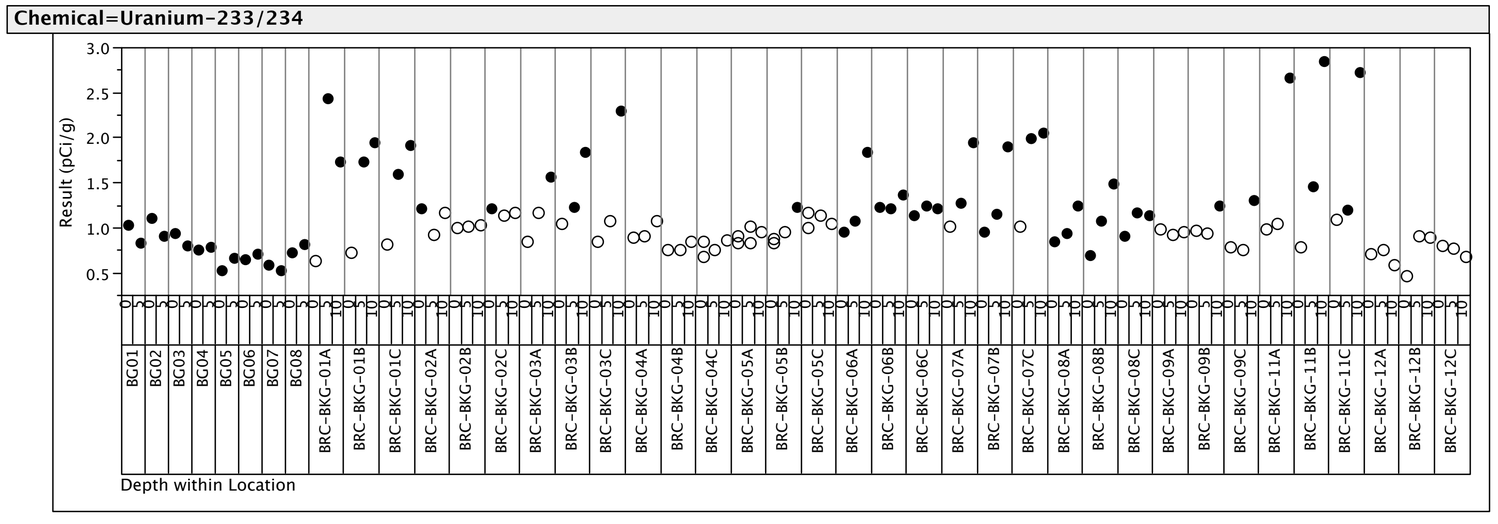
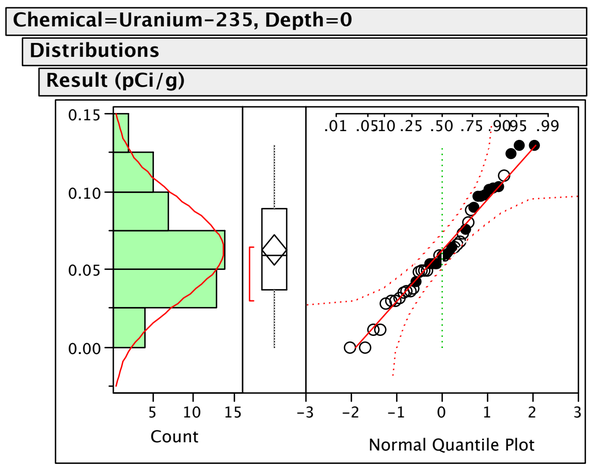
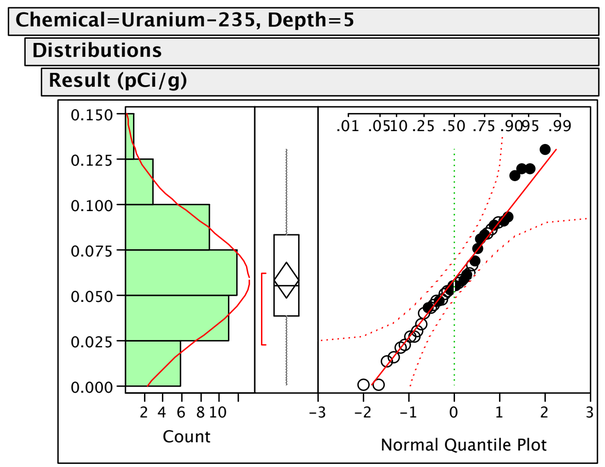
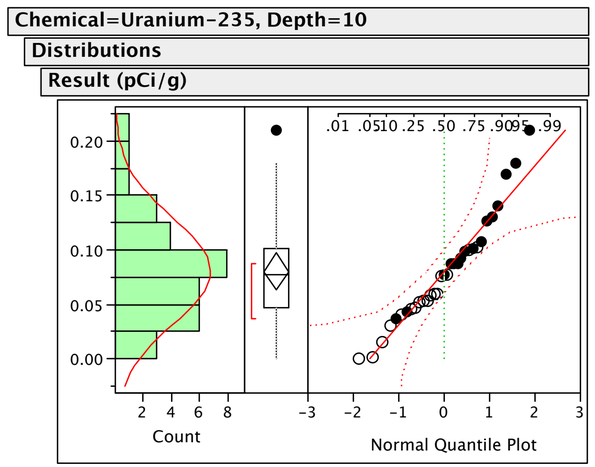


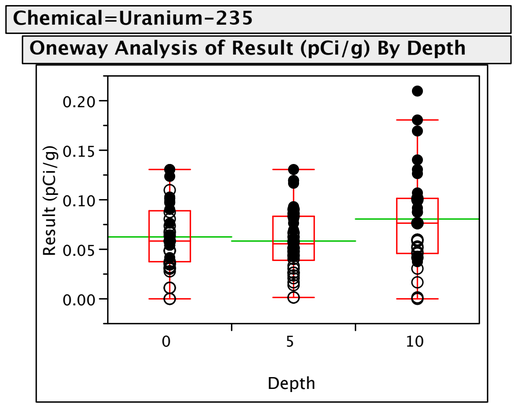
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









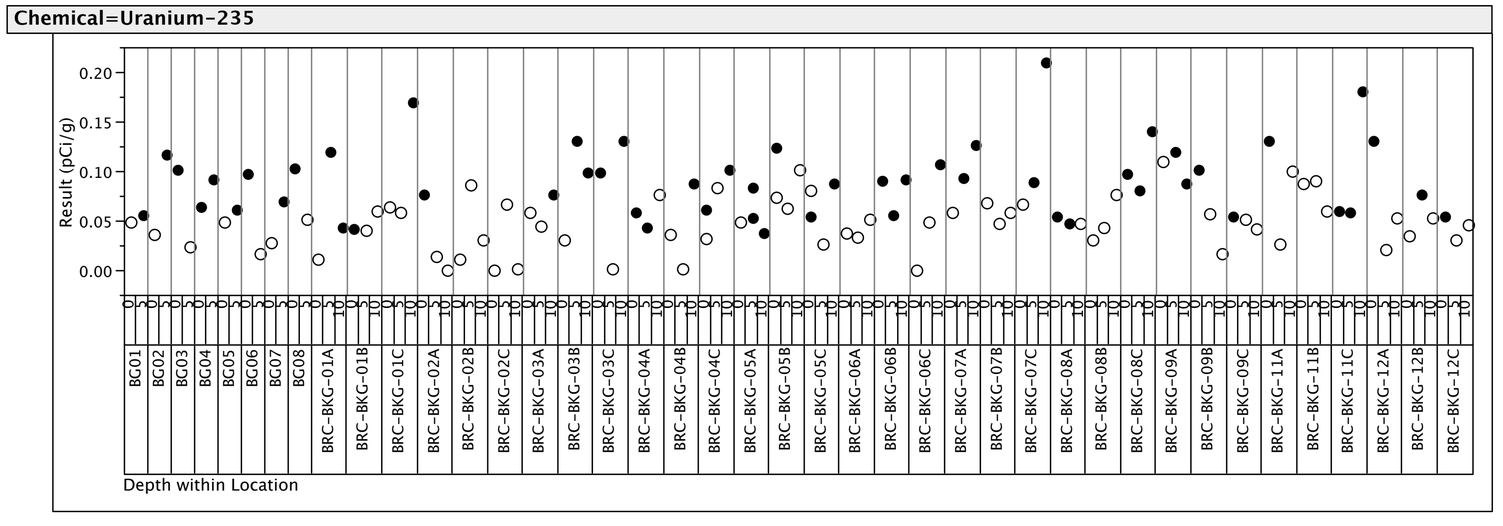
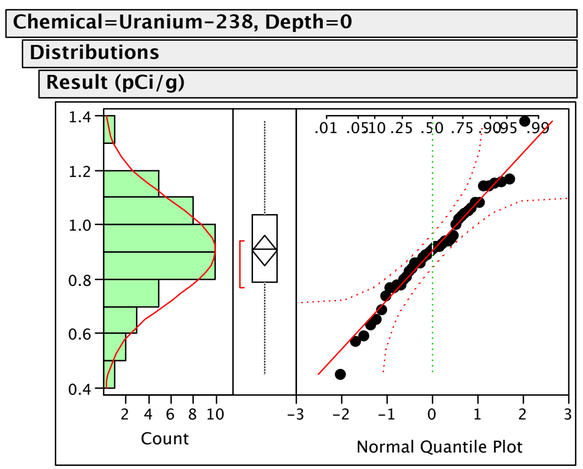
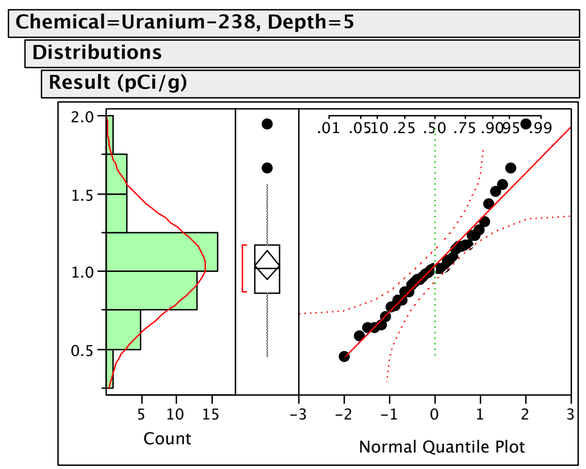
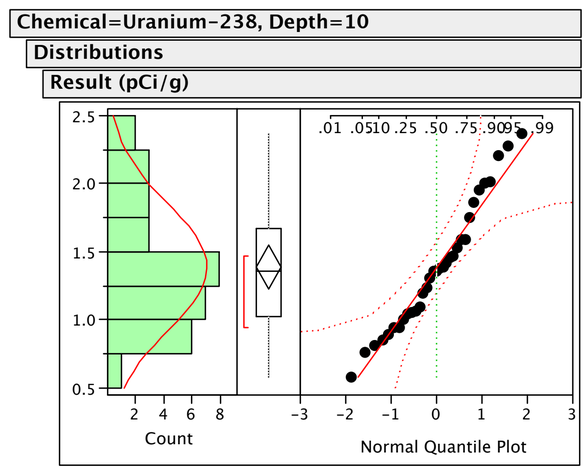


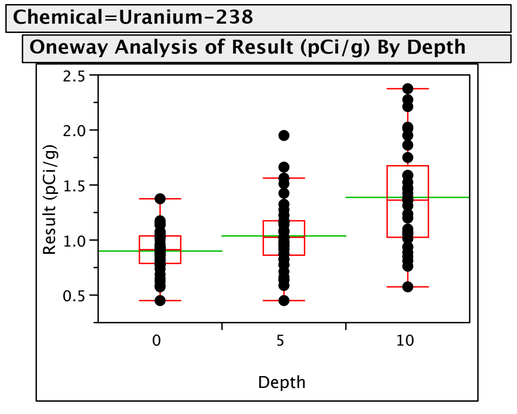
FIGURE G-4 (Continued)

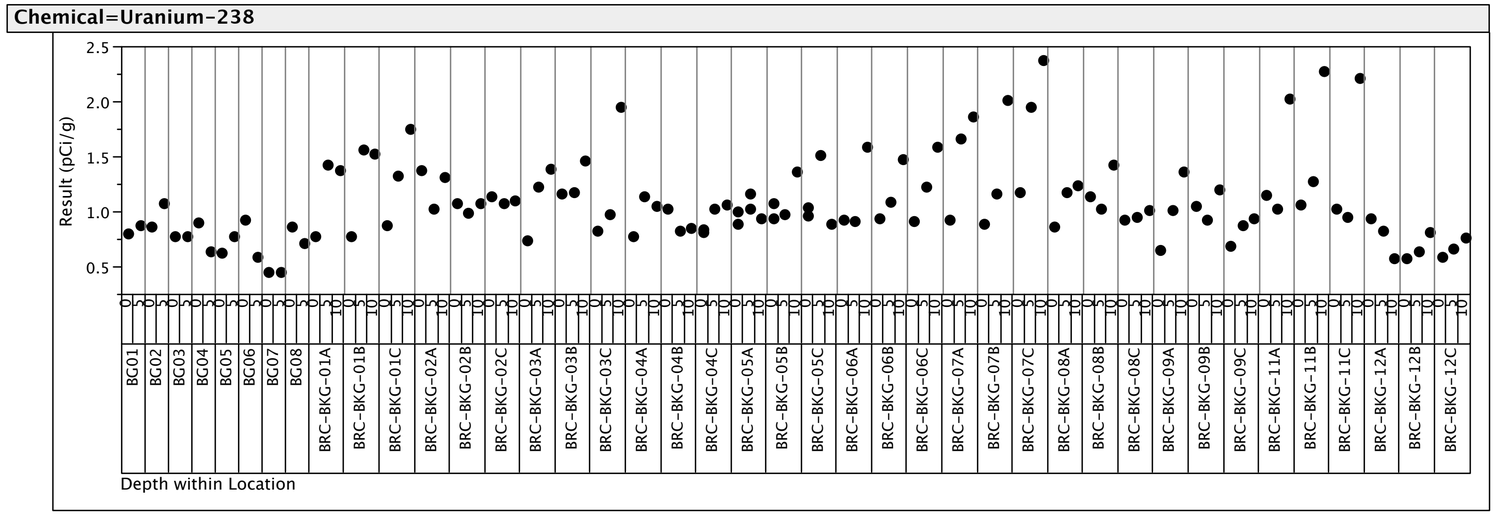
COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





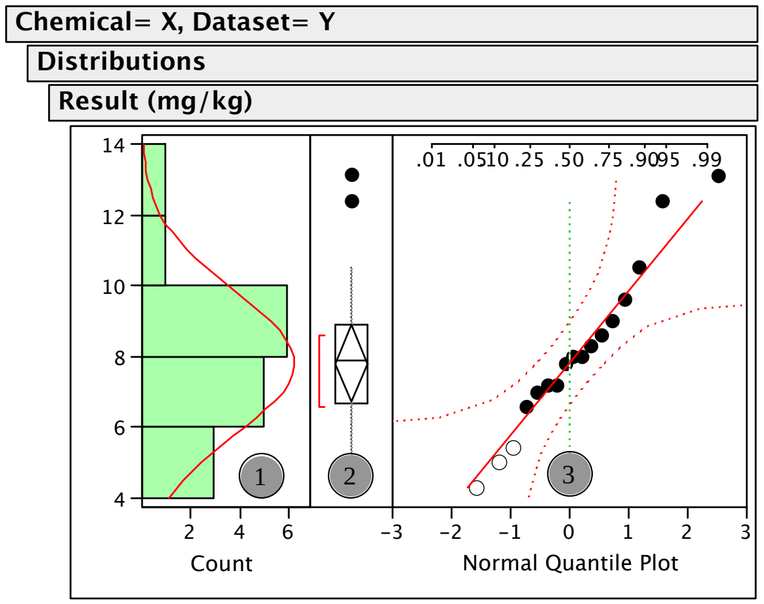


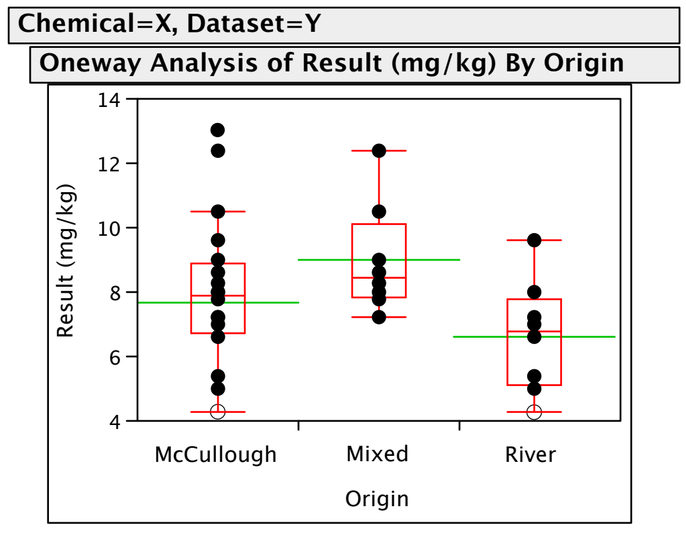




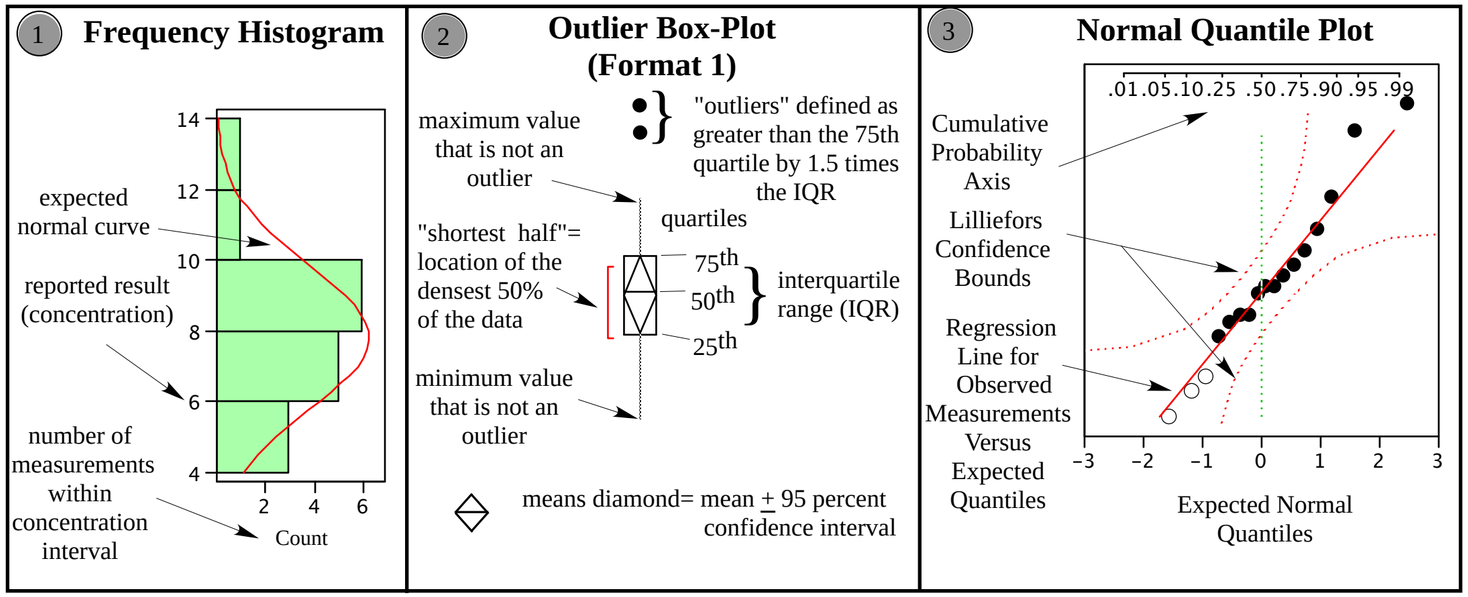
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-5

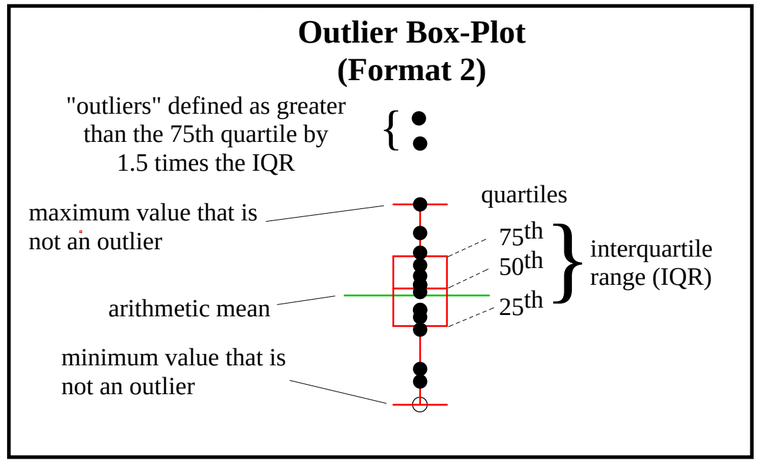
Example Figures From Appendix



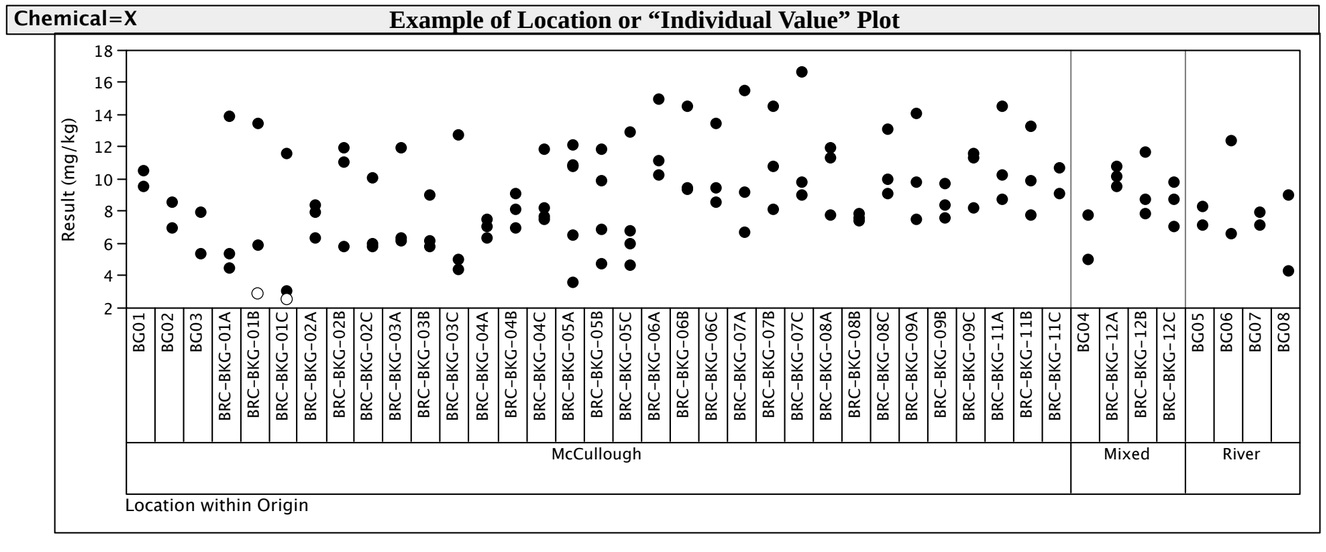


Keys to Individual Figure Panels





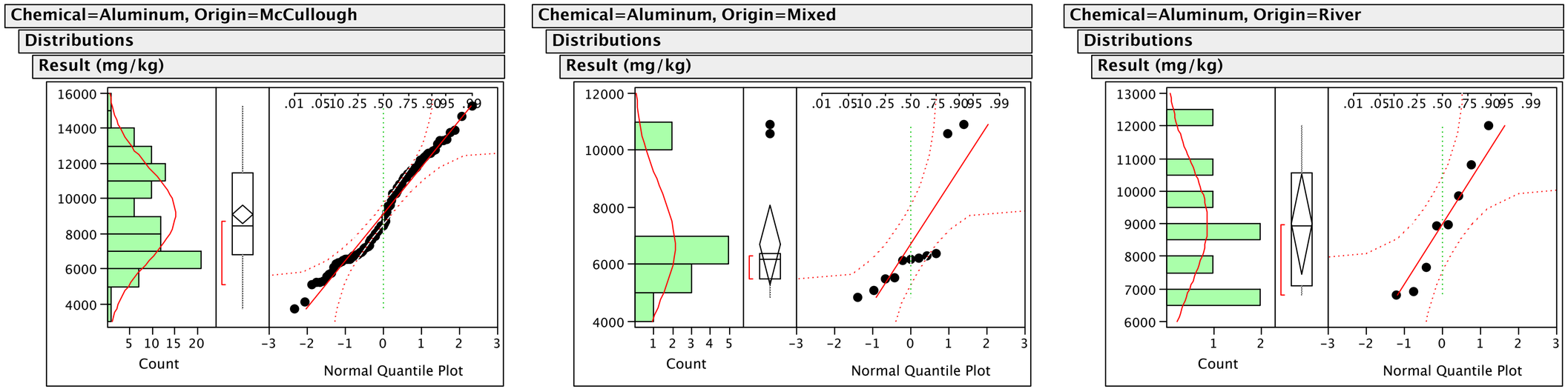
- ● detected result
- ○ censored result

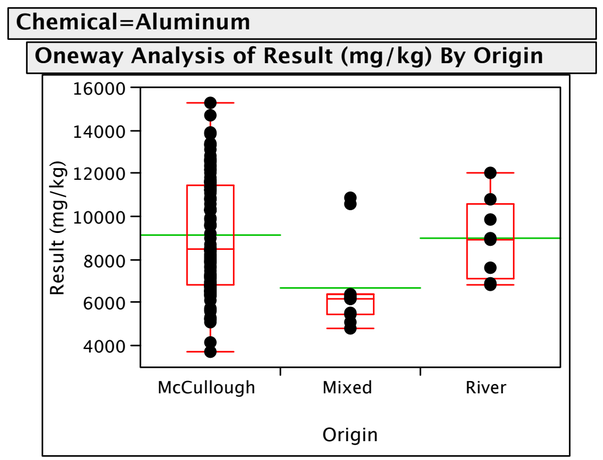


Results are Plottted for Individual Locations and Grouped by Soil Origin

FIGURE G-5

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





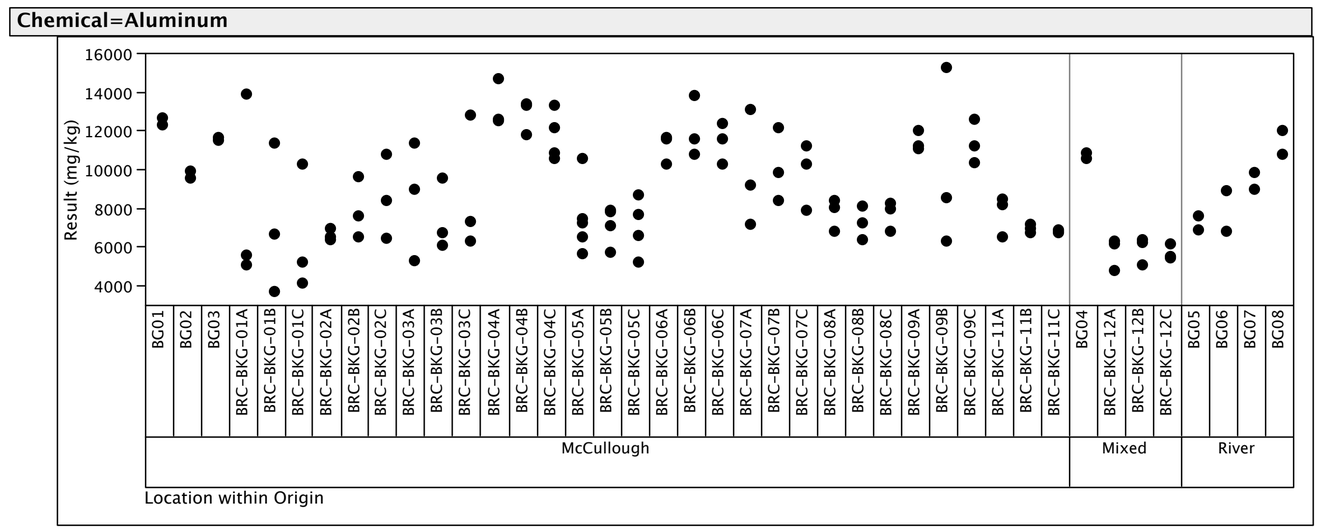
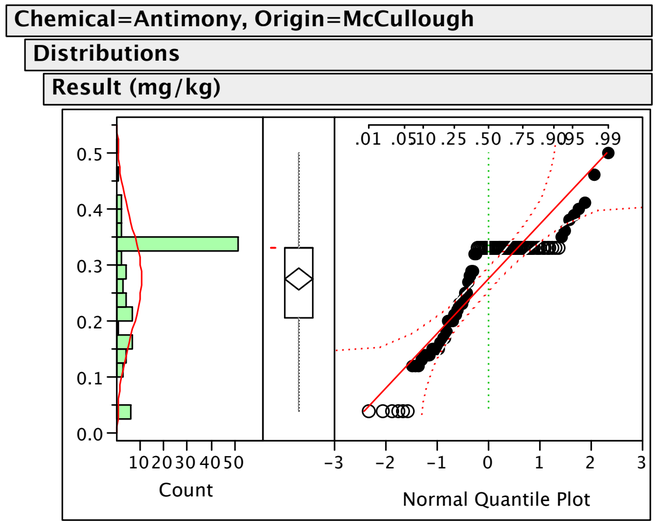
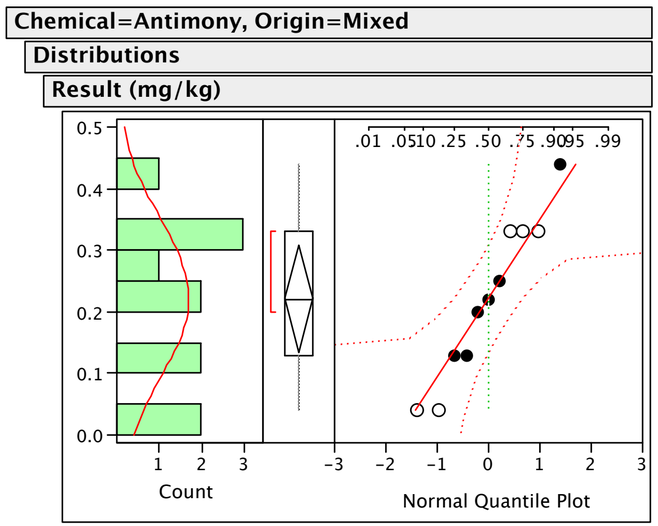
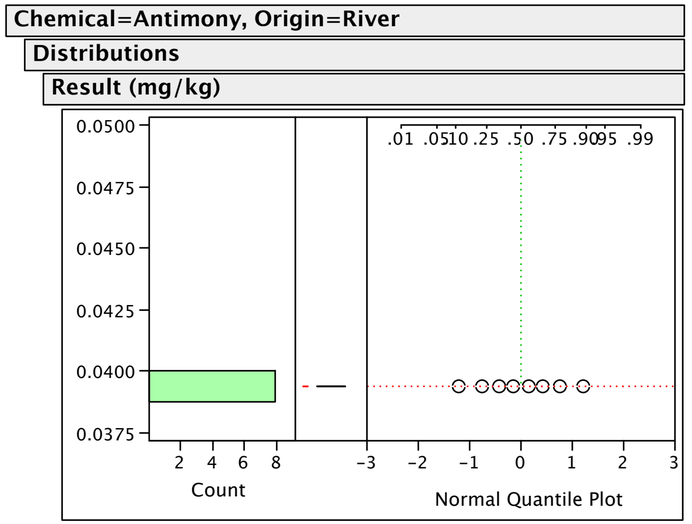


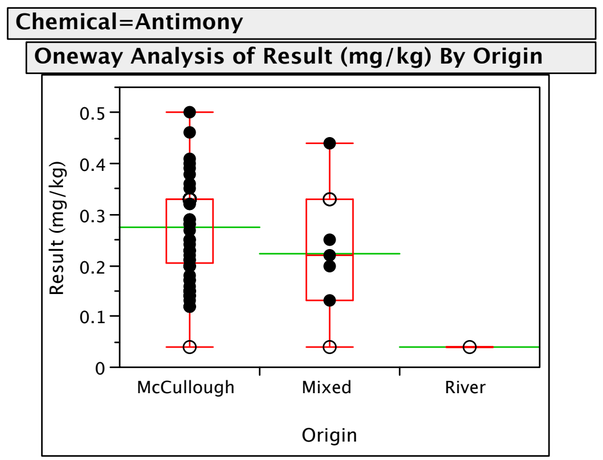
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









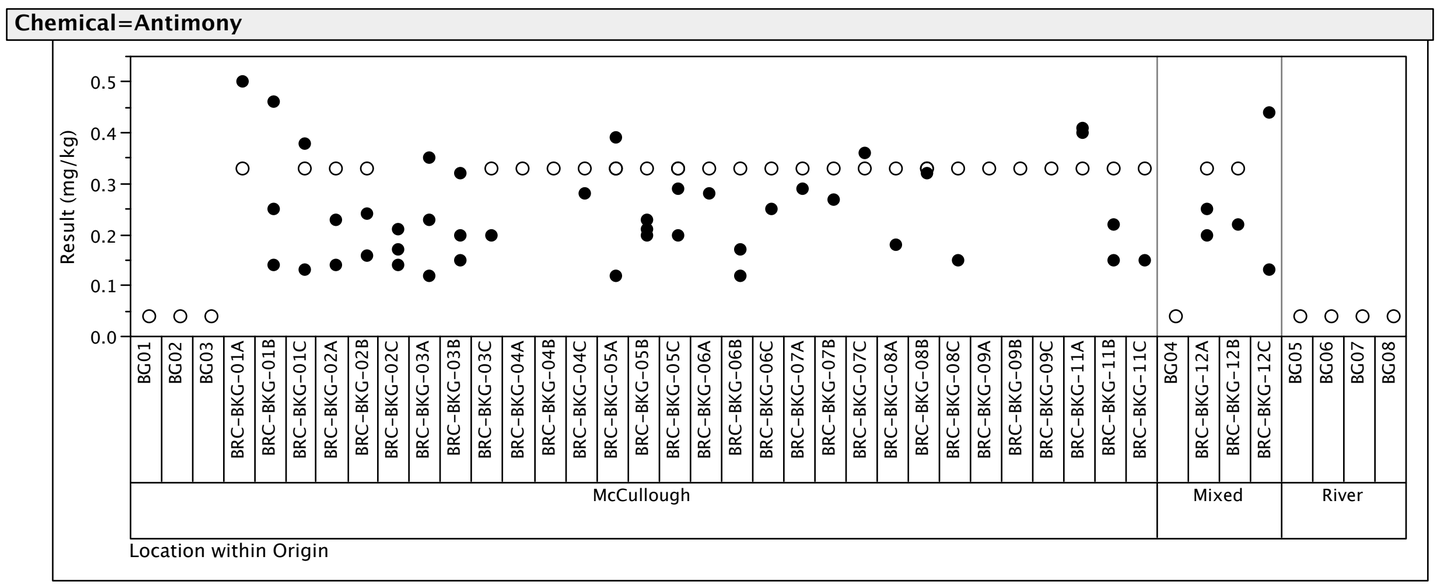
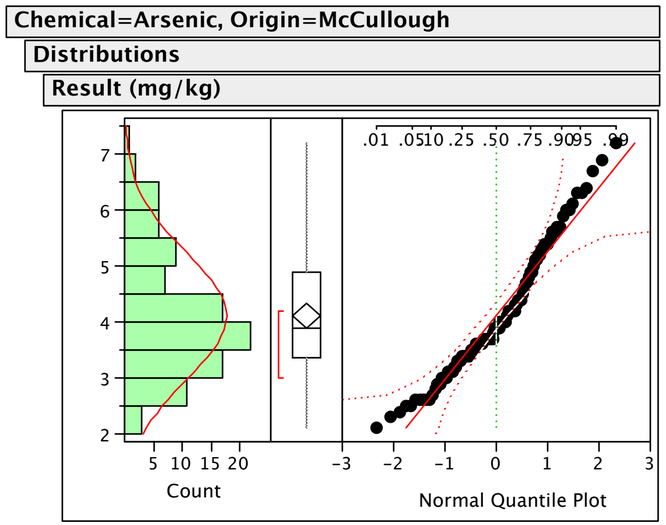
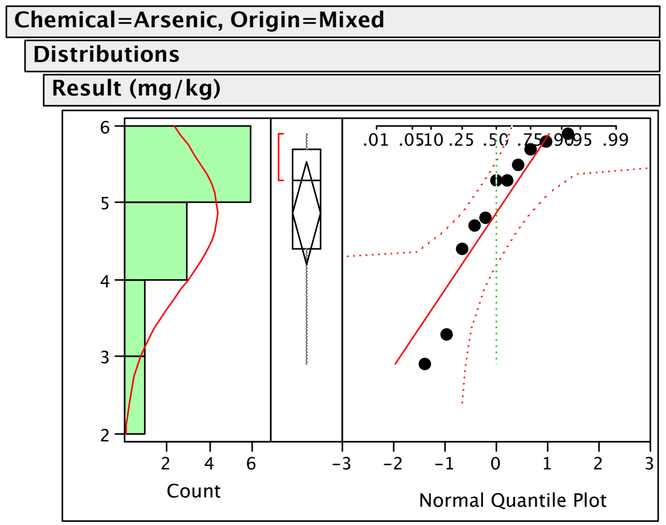
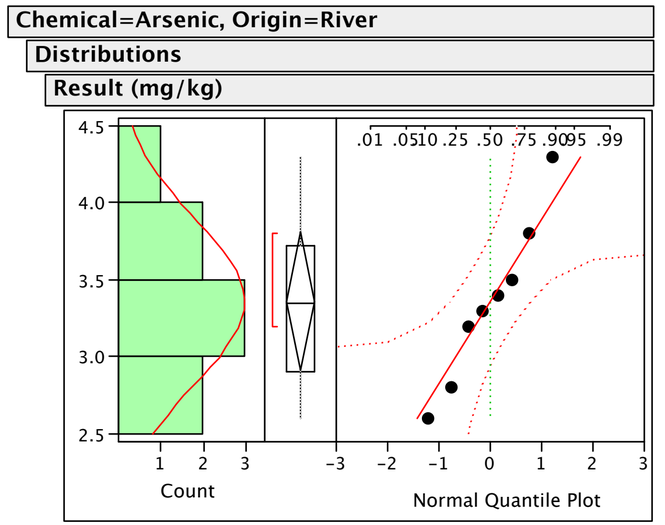


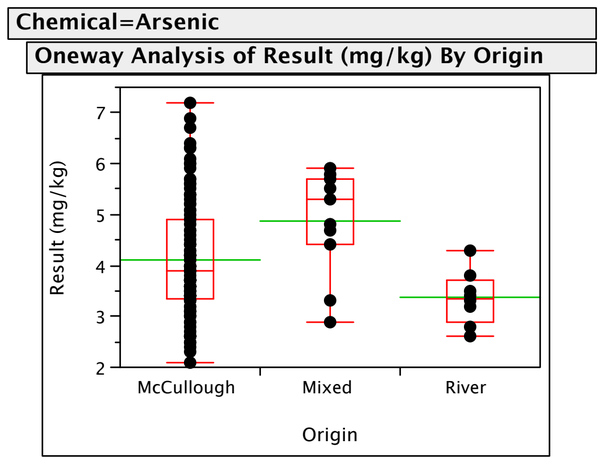
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









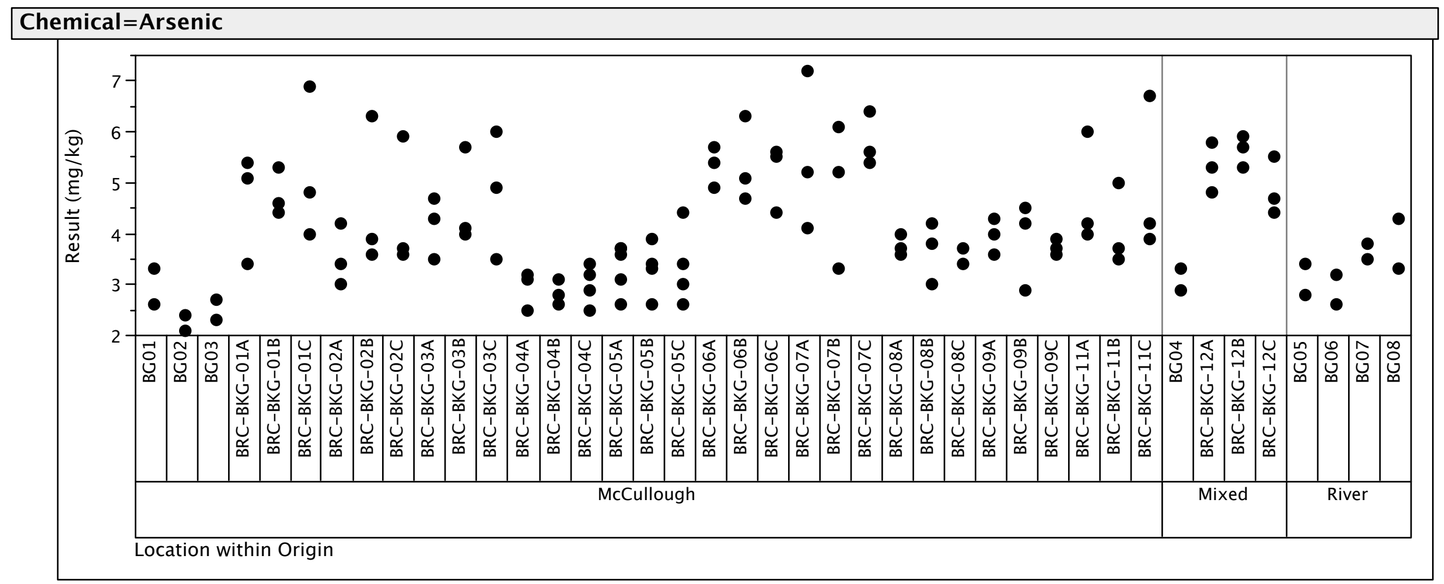
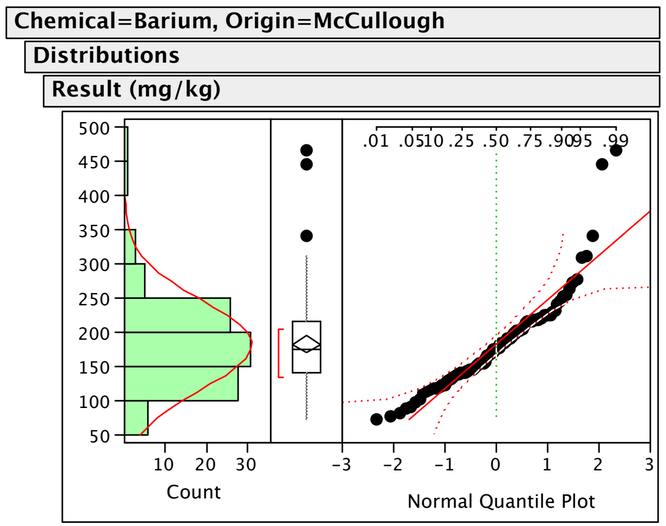
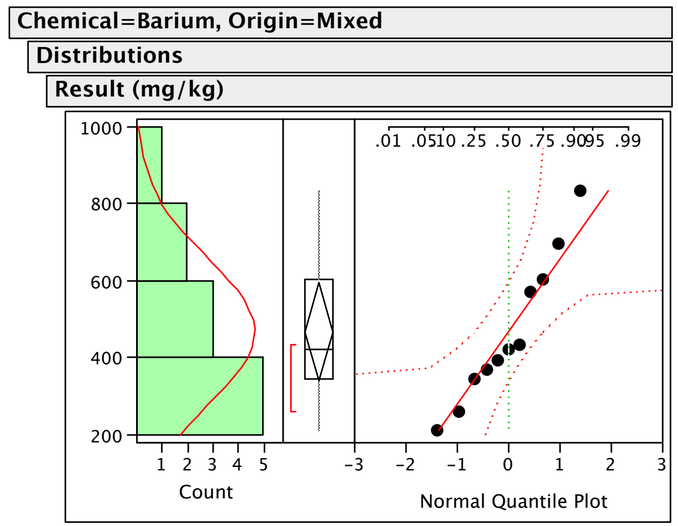
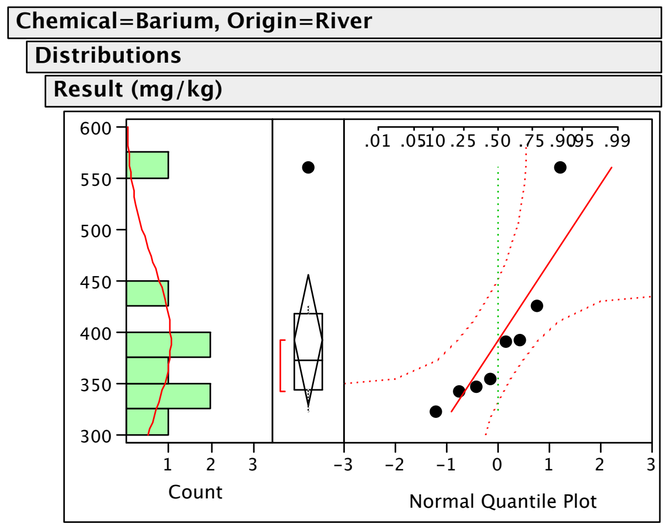


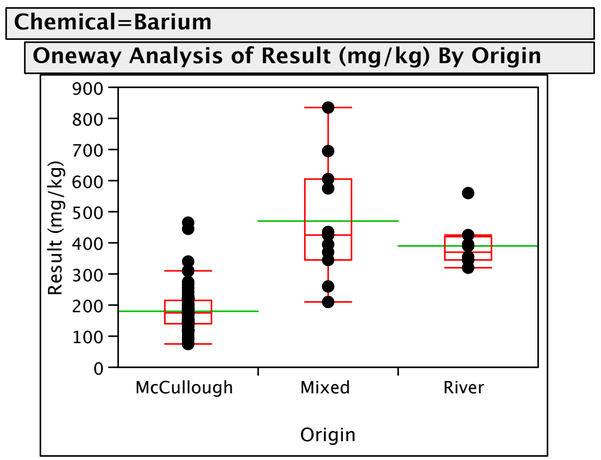
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









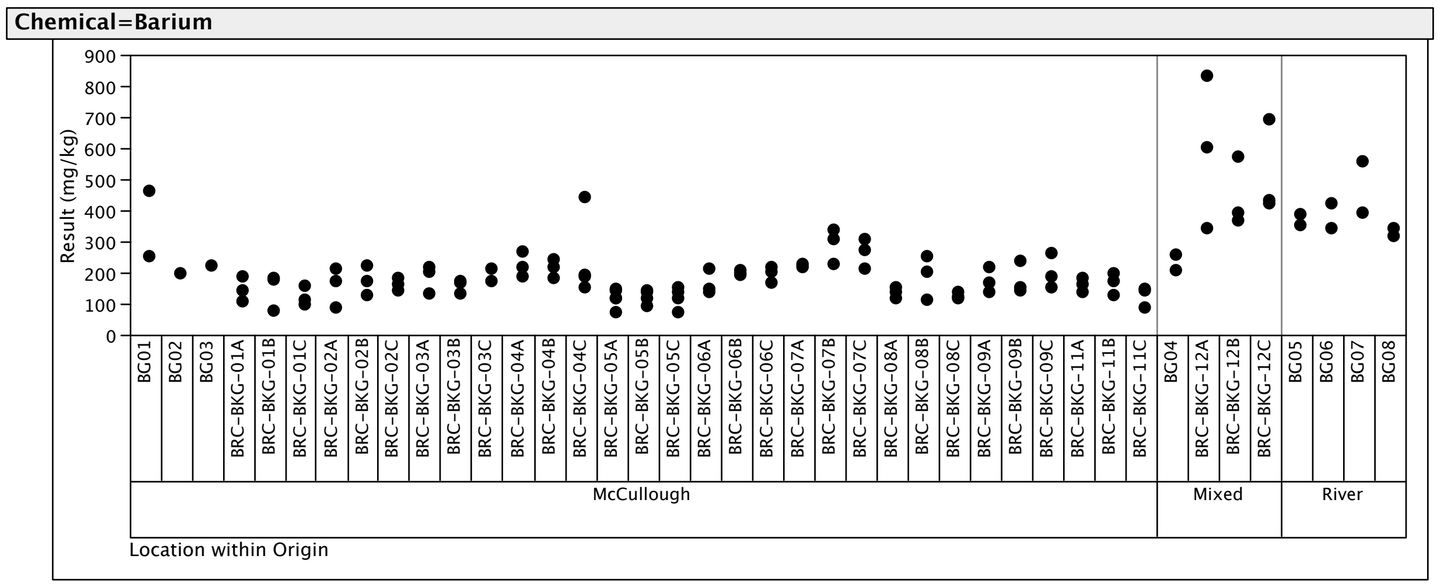
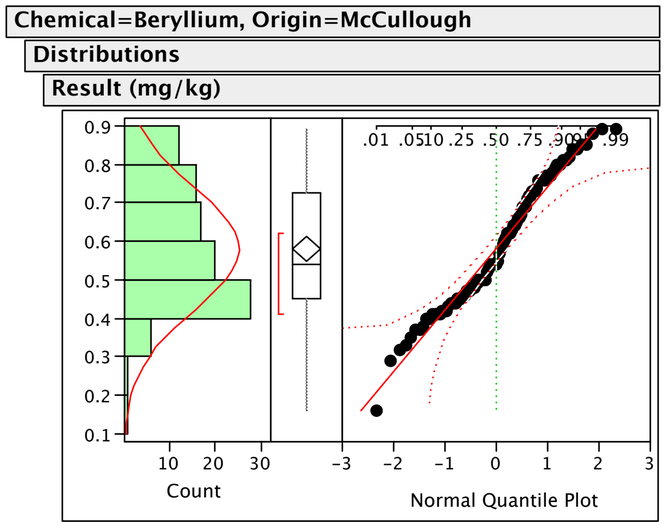
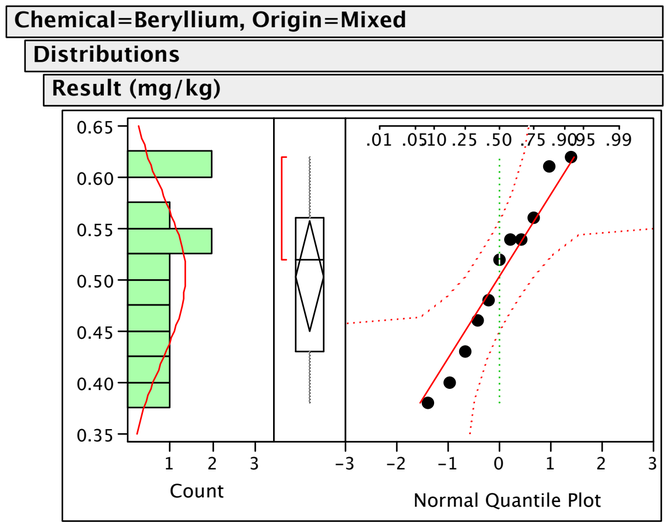
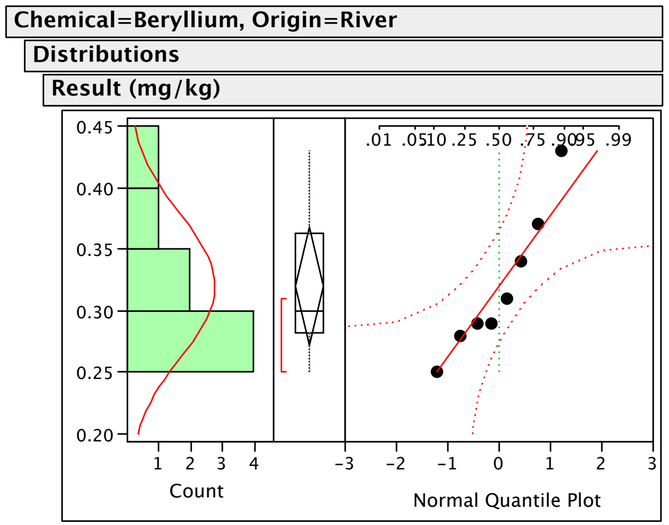


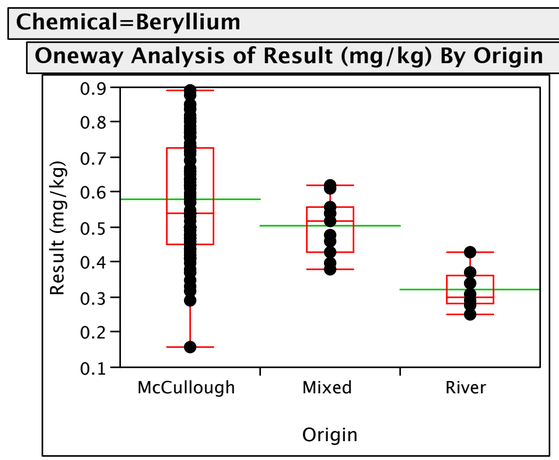
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









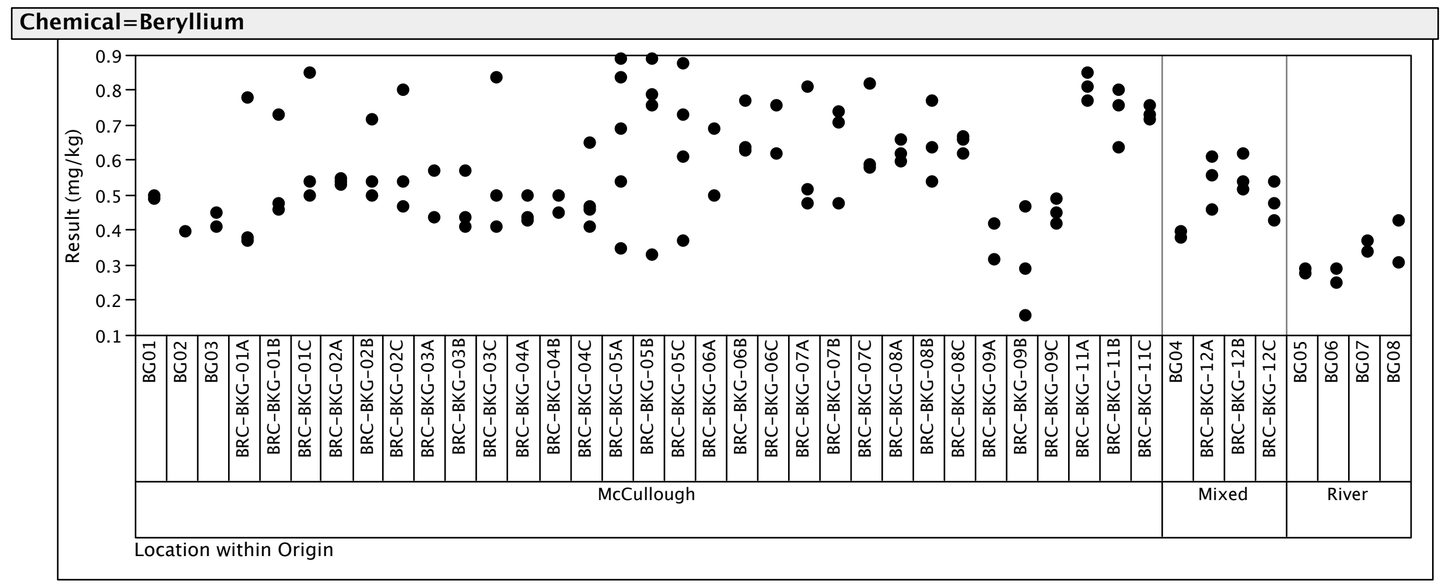
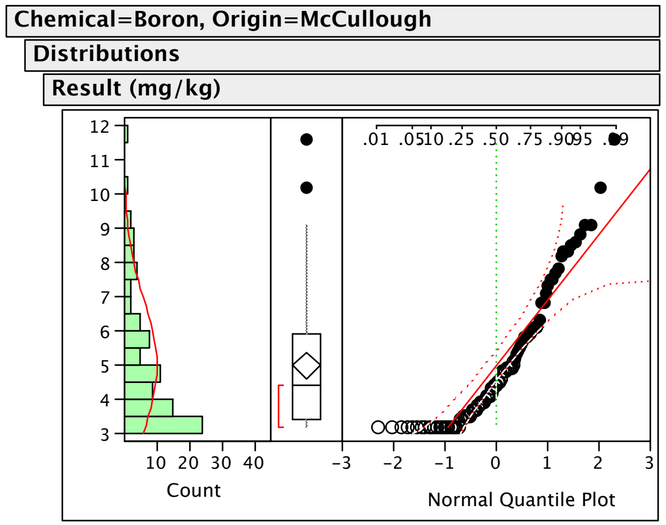
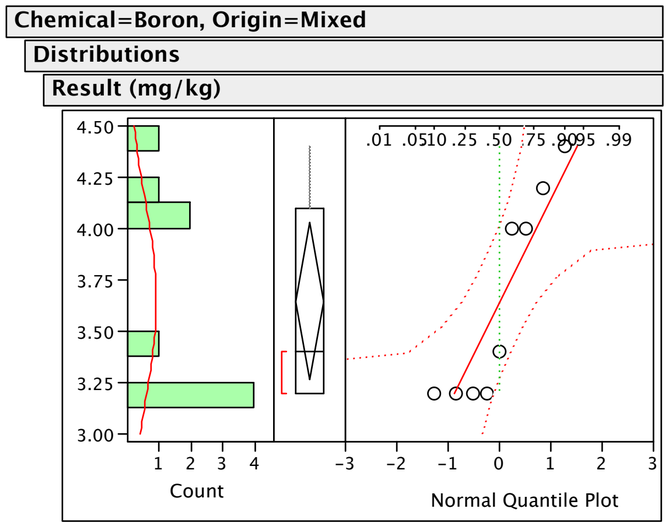
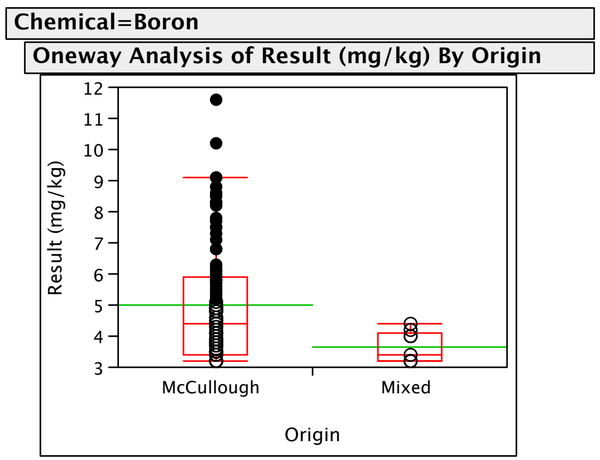


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







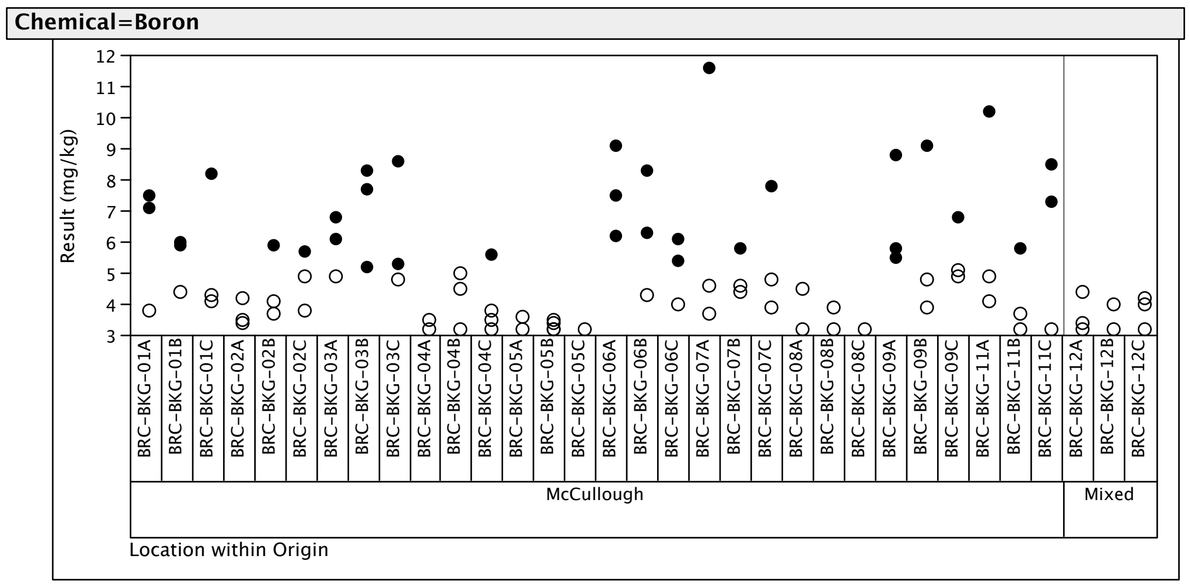
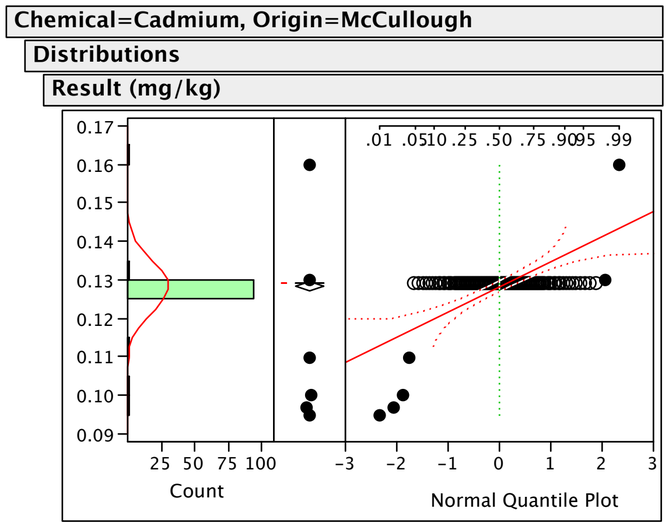
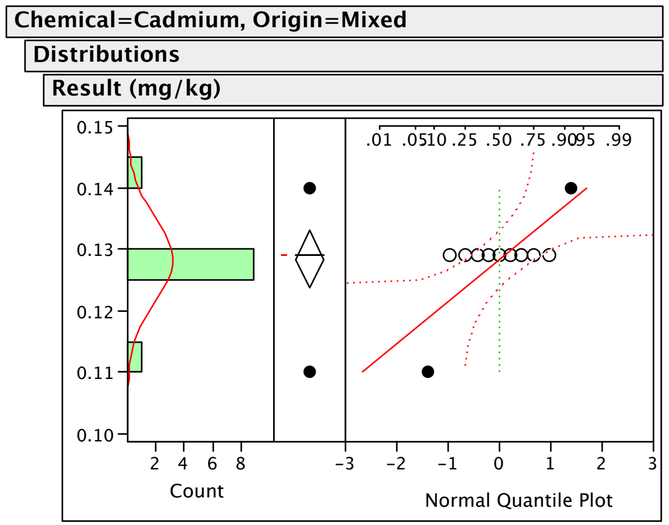
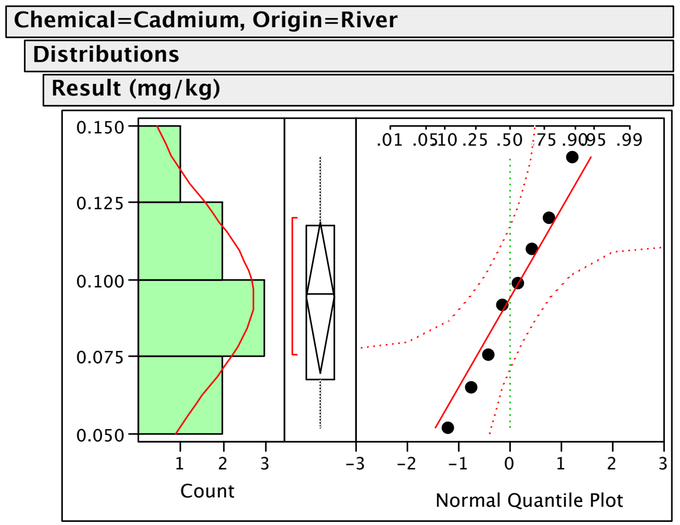


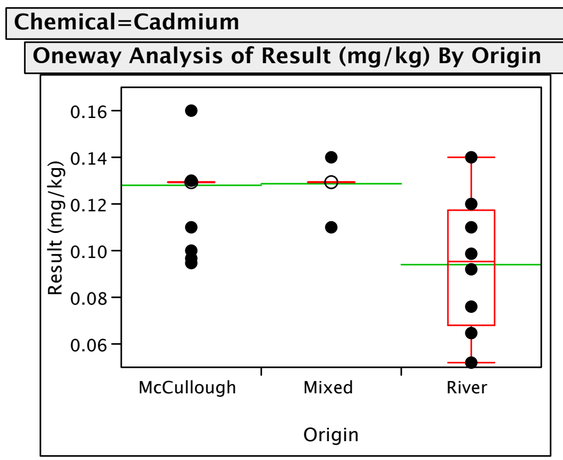
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









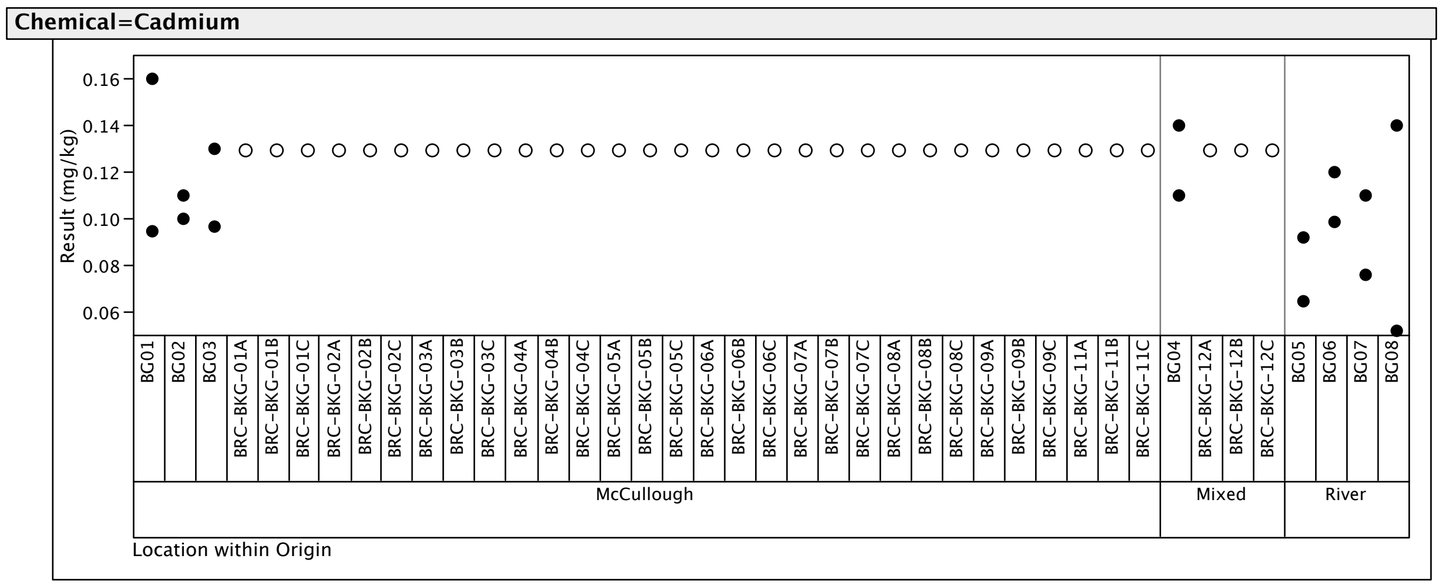
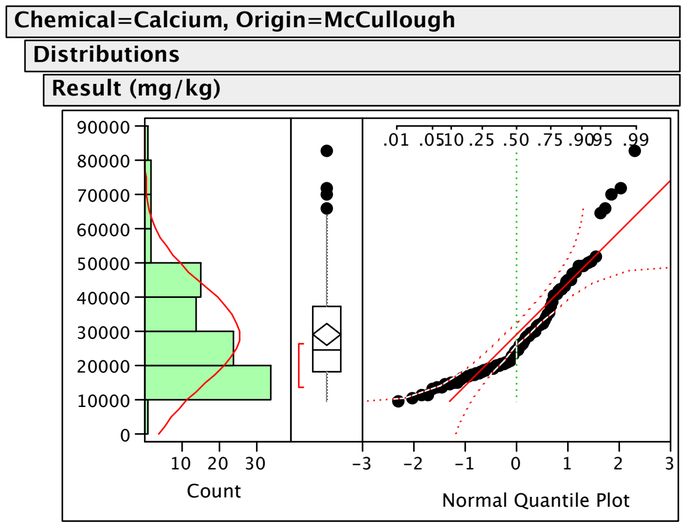
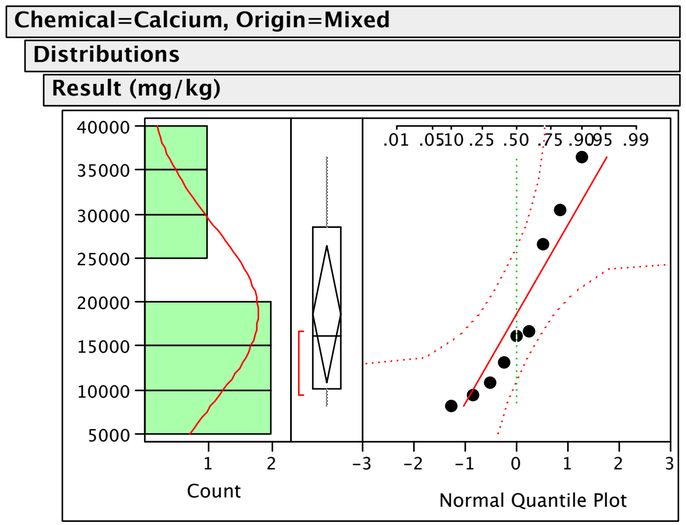
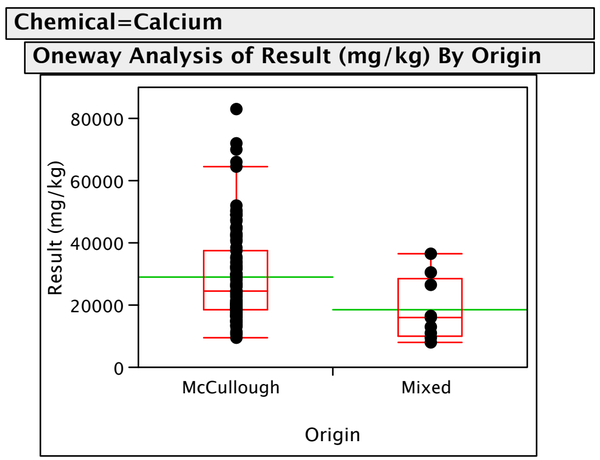


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







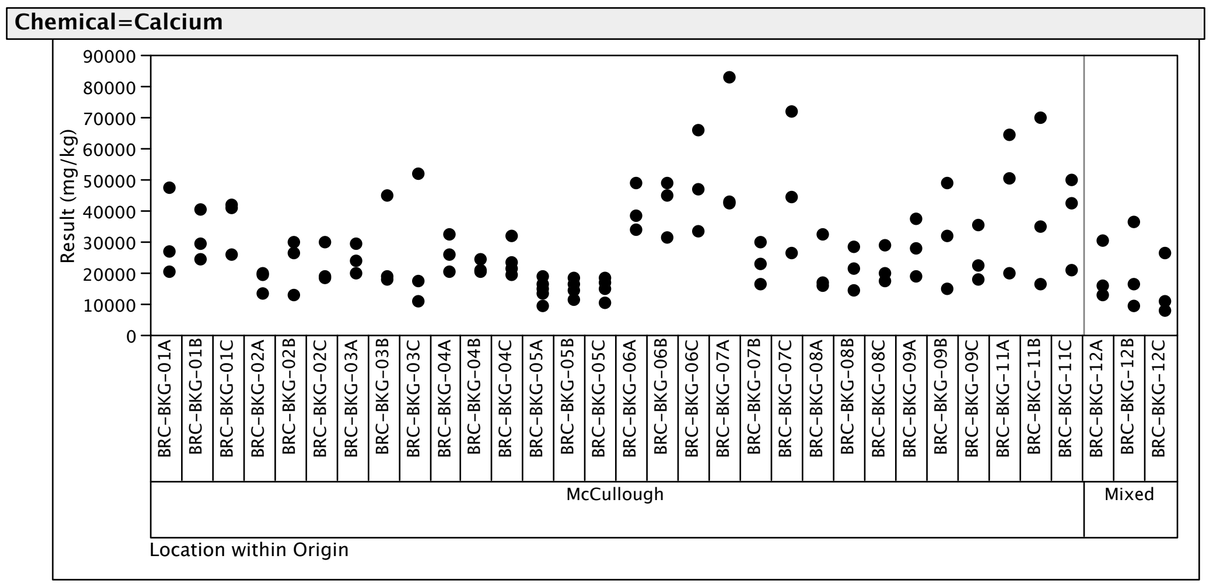
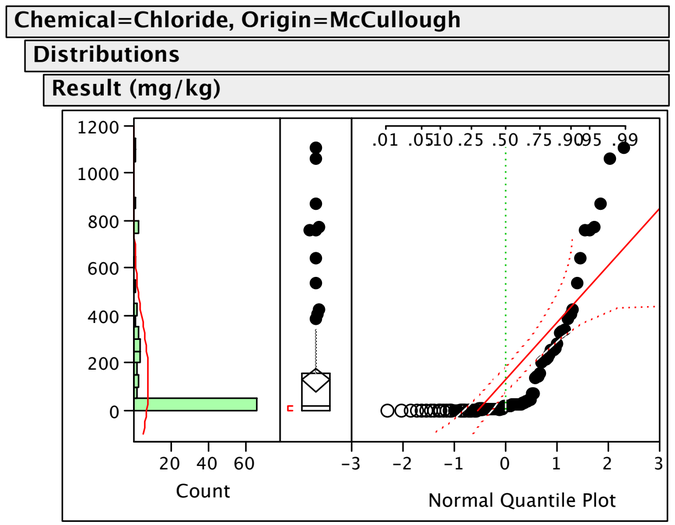
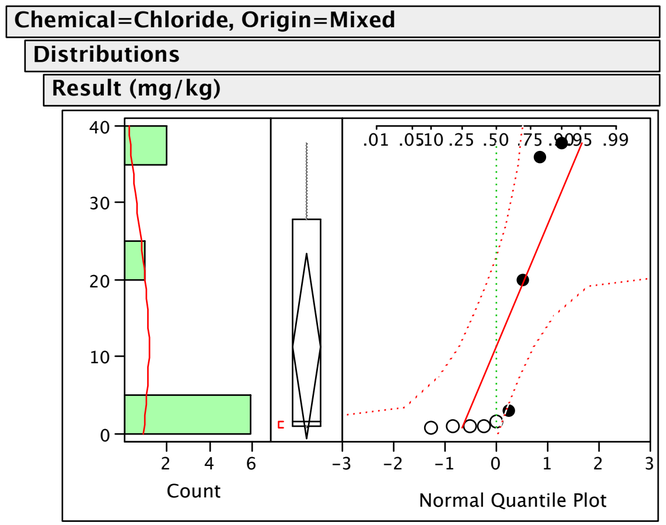
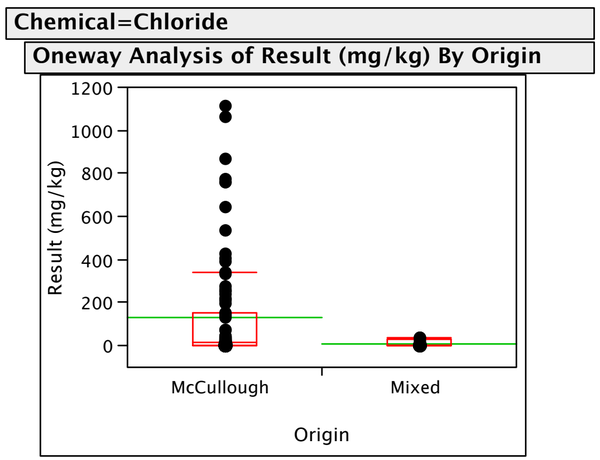


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







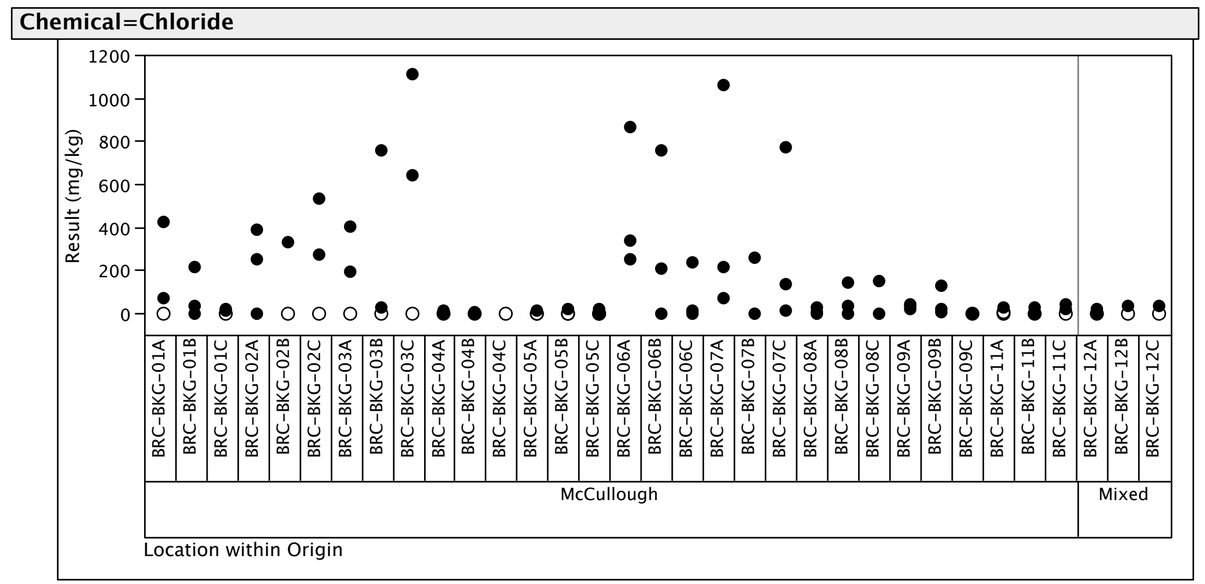
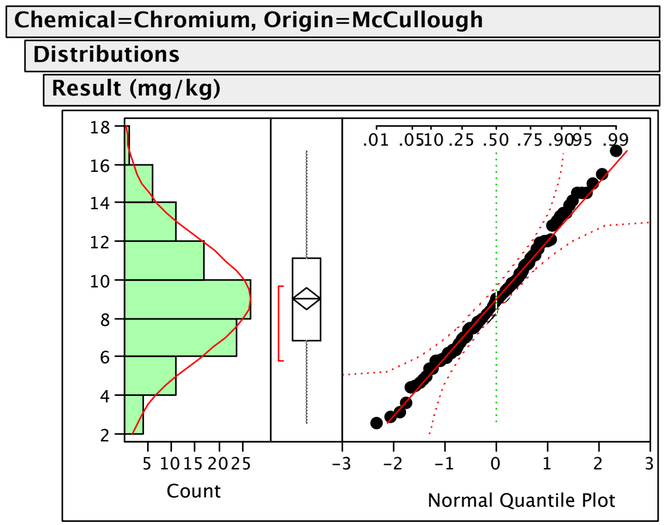
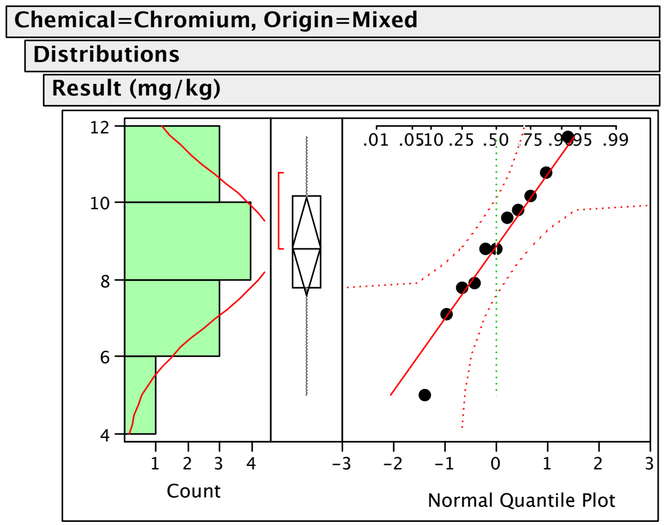
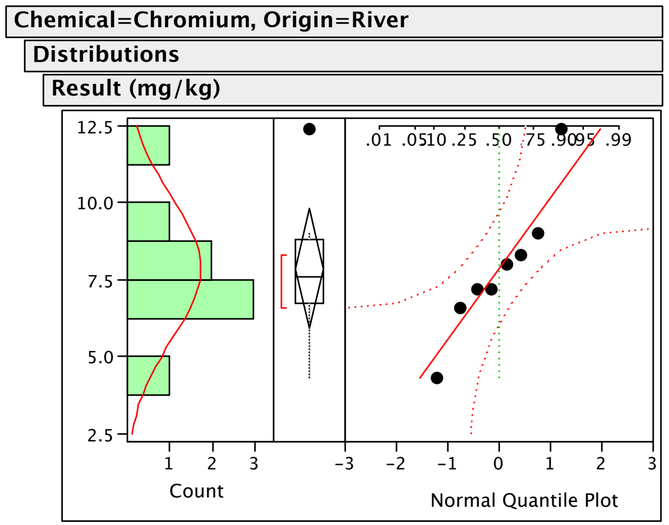


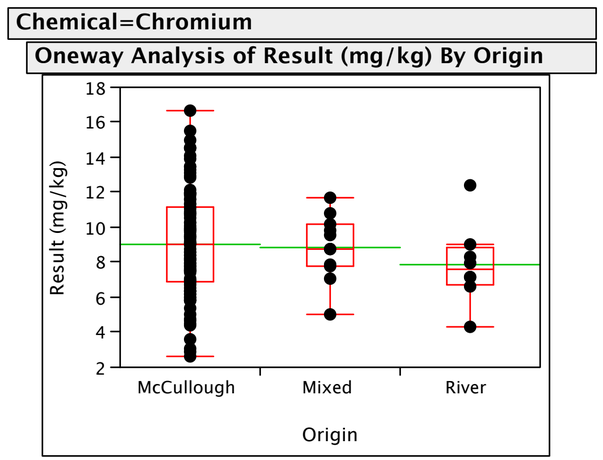
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









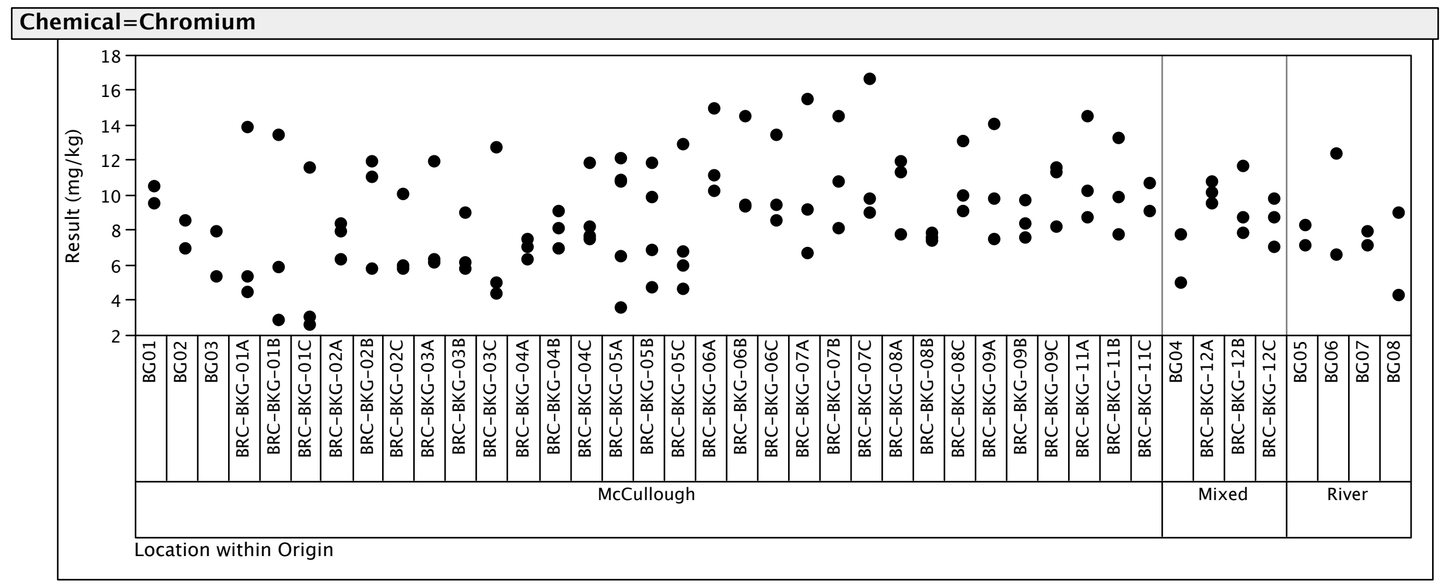
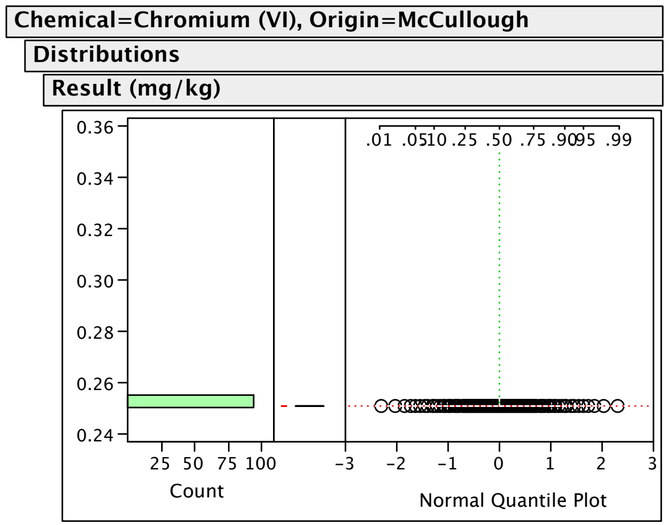
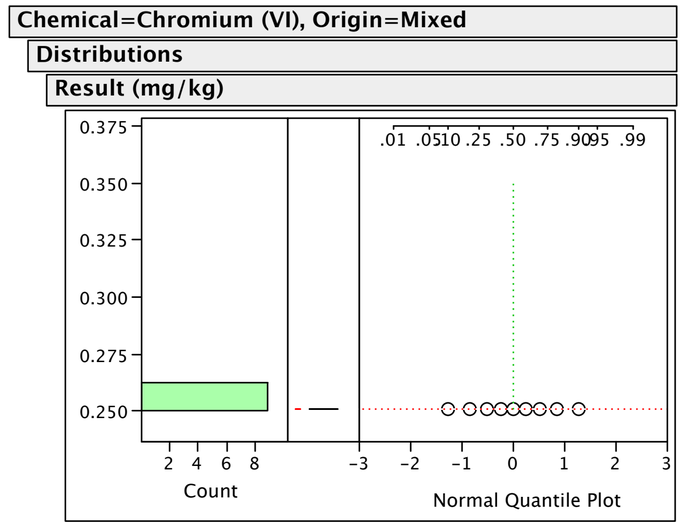
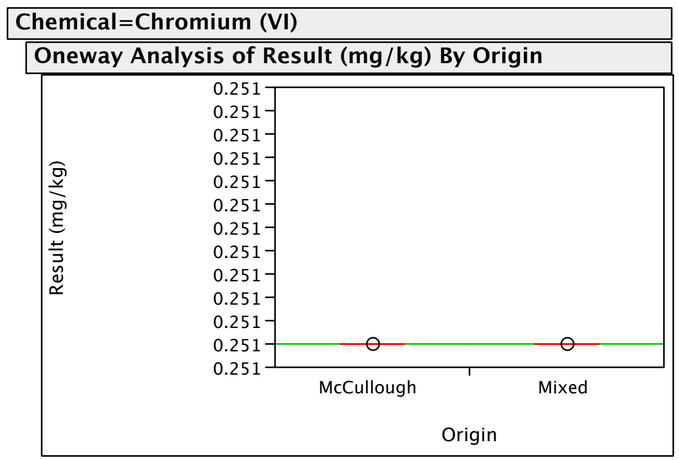


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







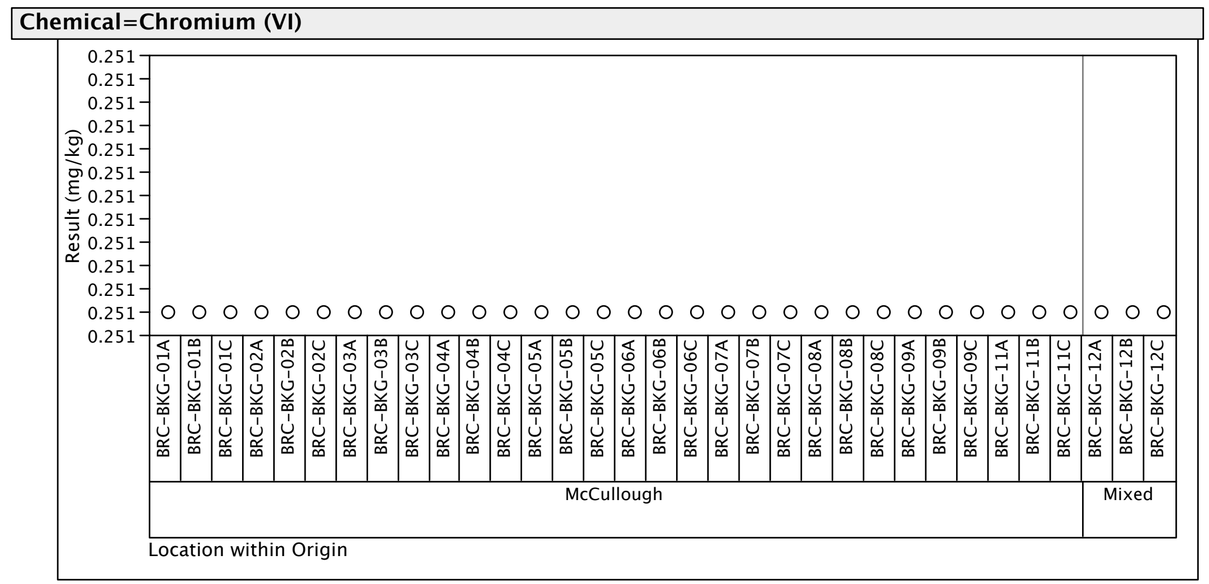
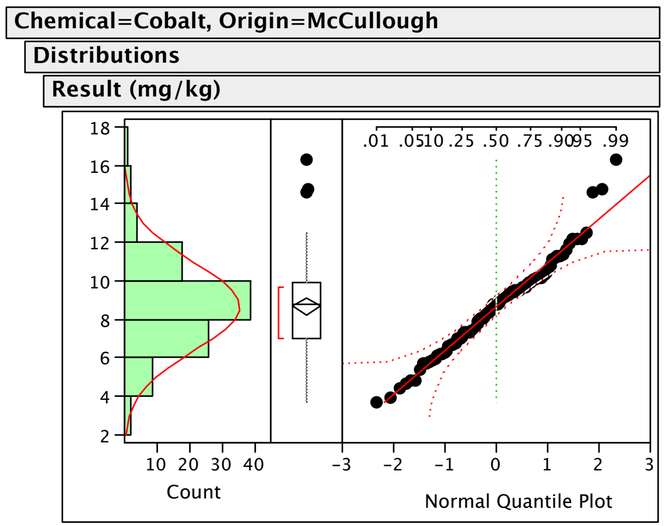
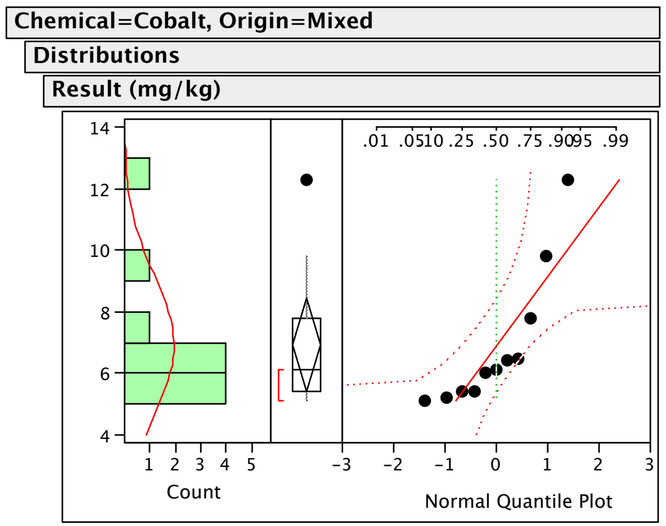
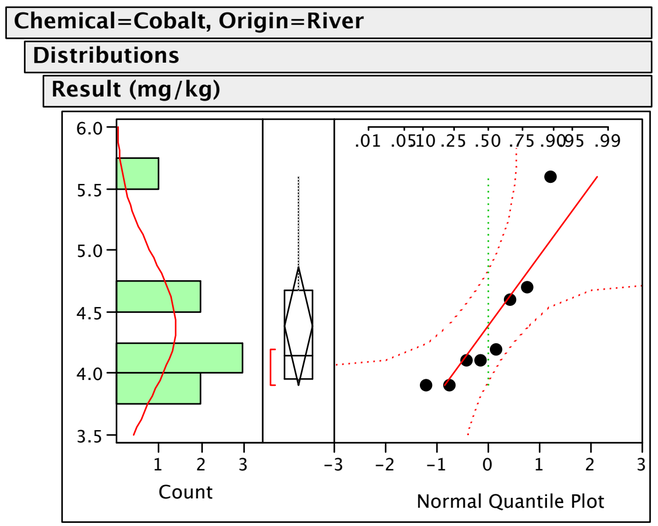


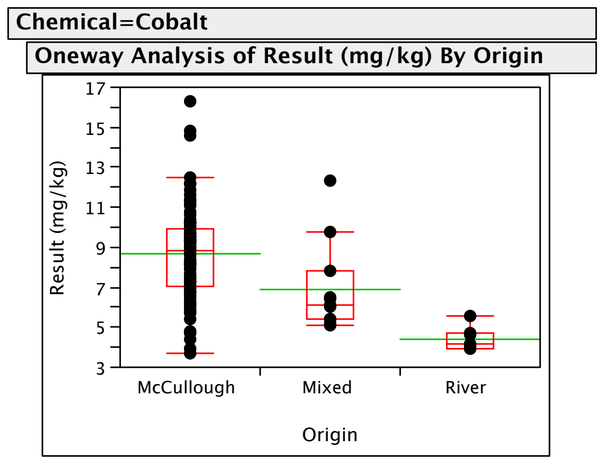
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









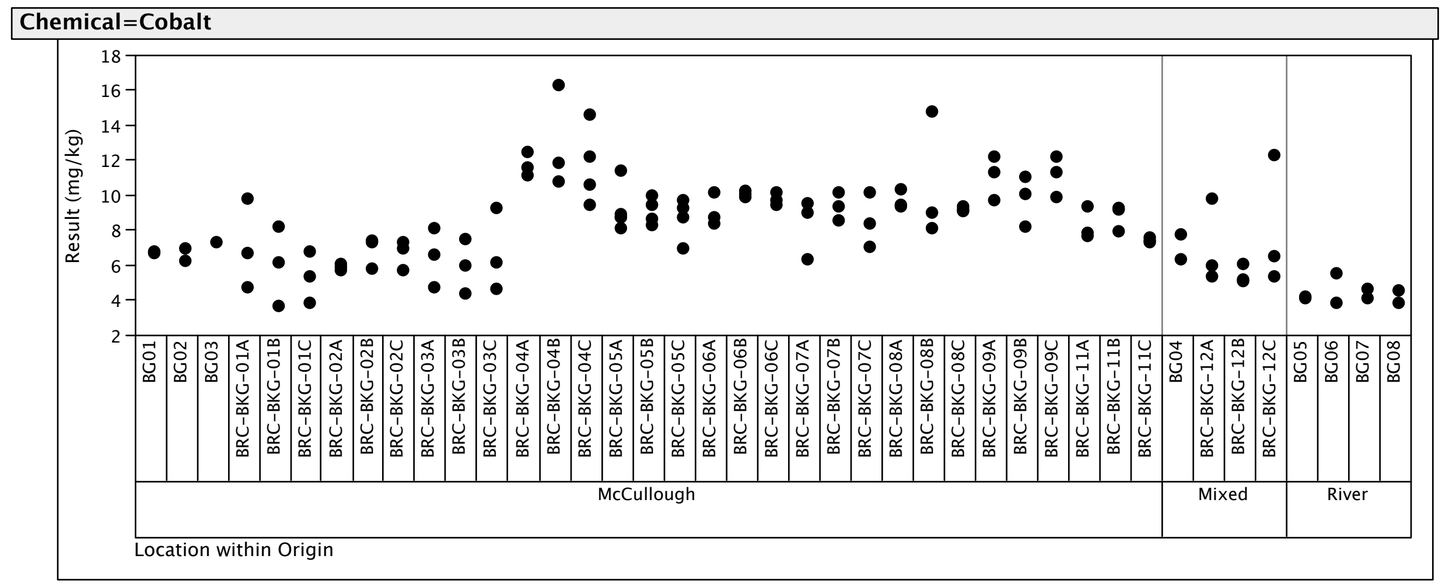
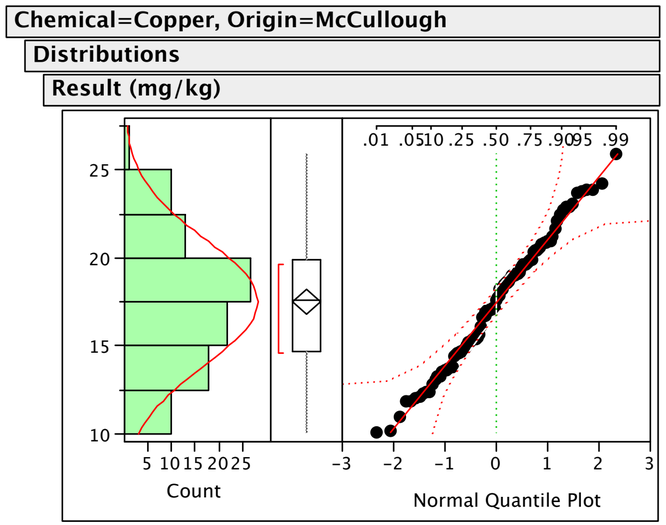
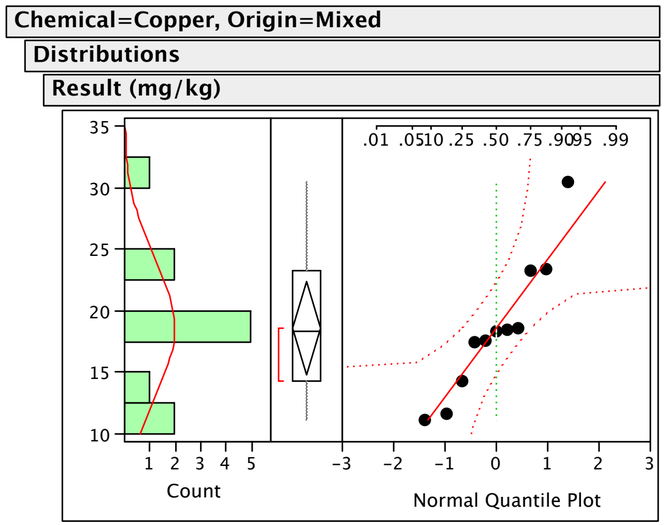
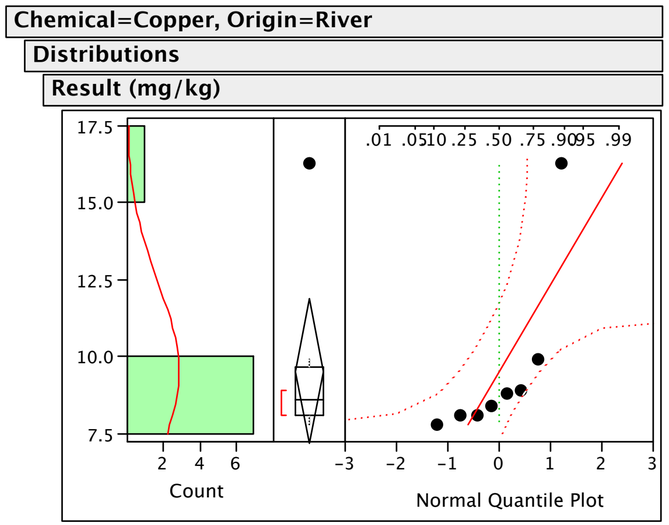


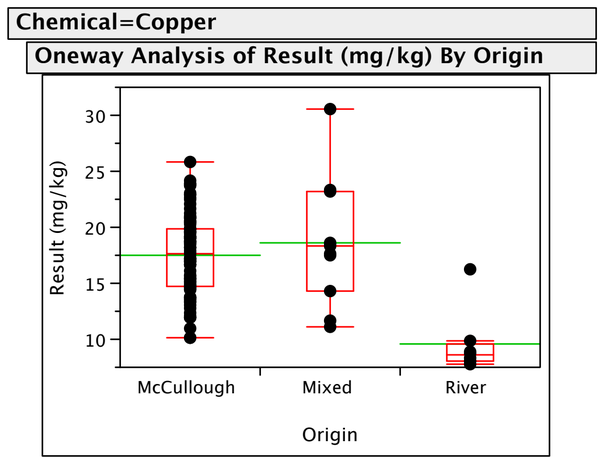
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









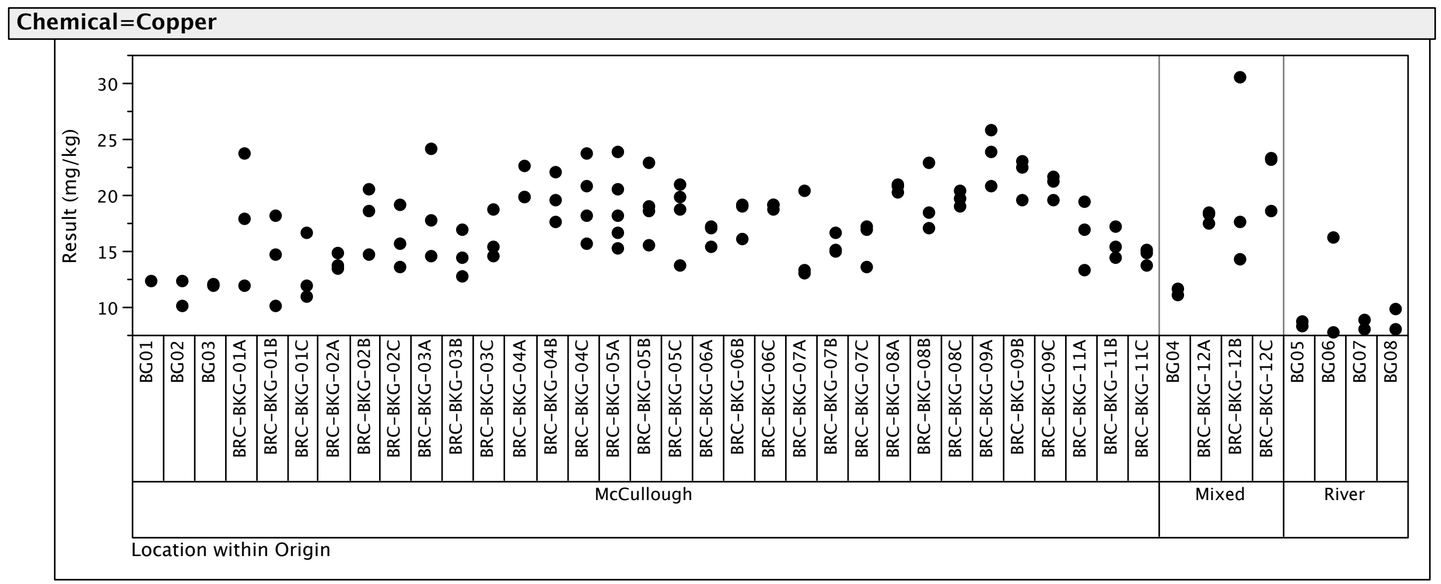
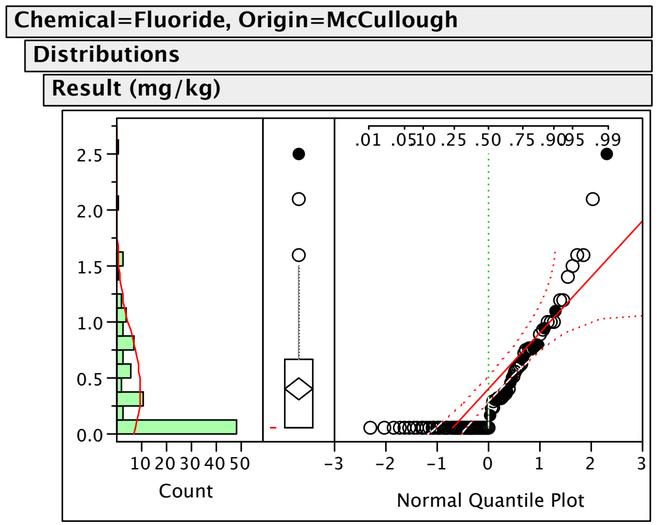
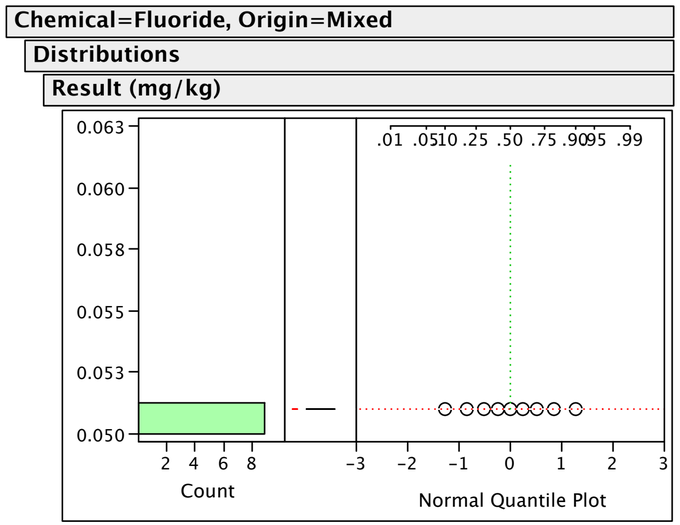
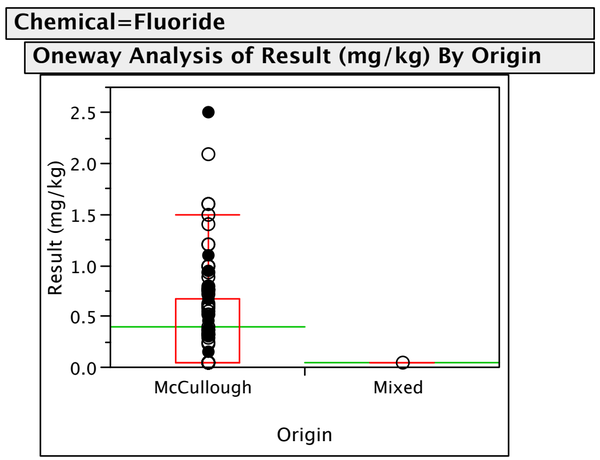


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







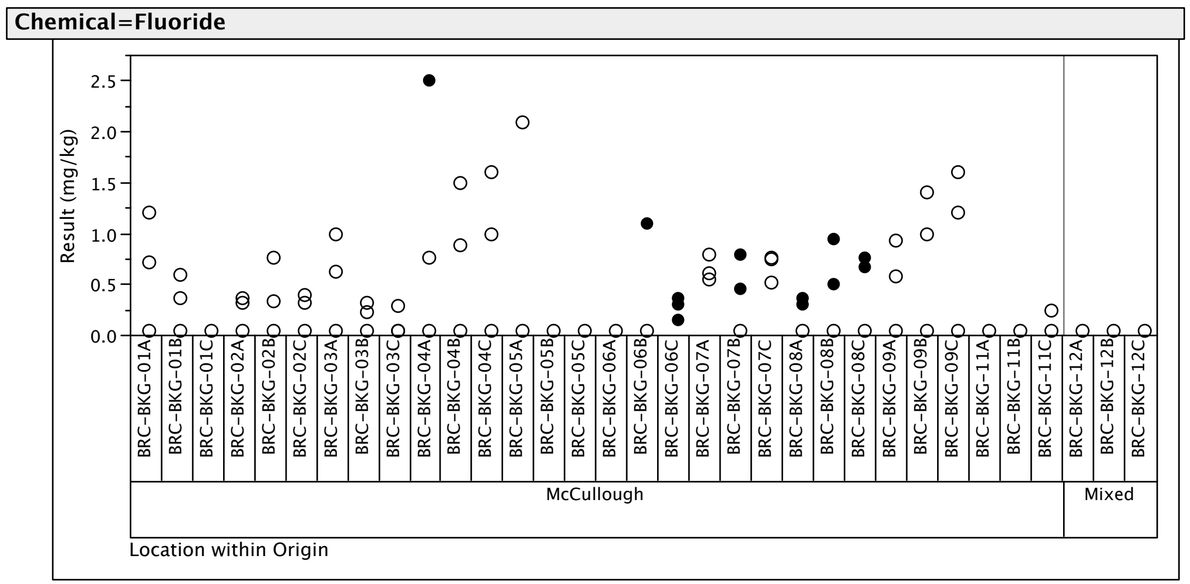
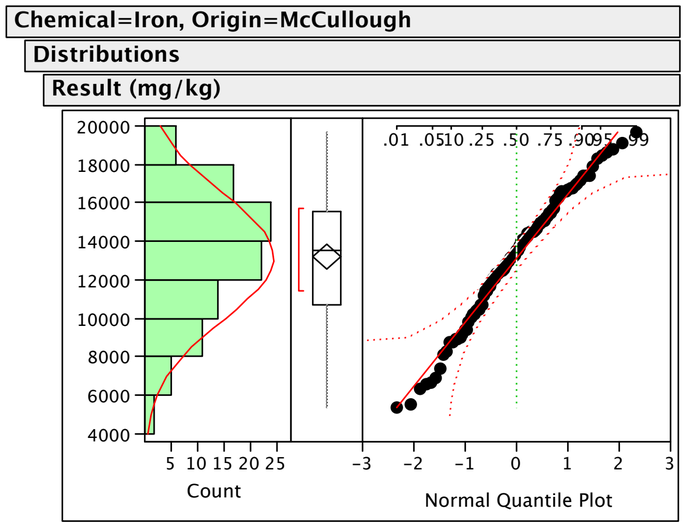
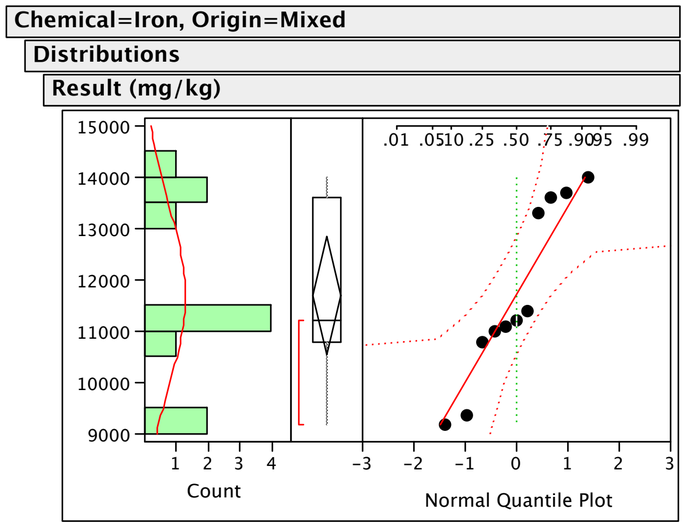
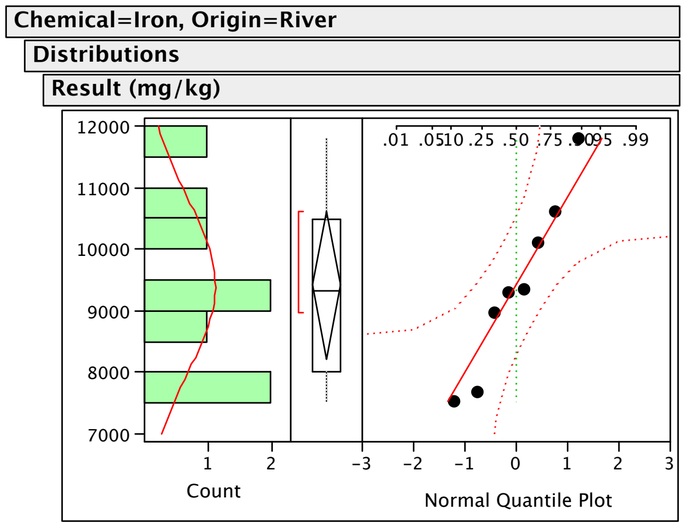


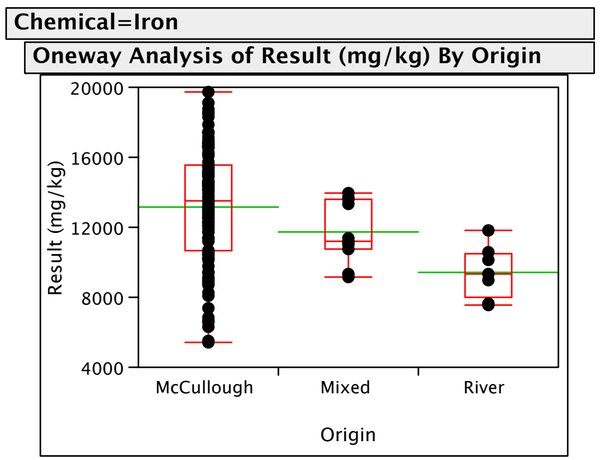
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









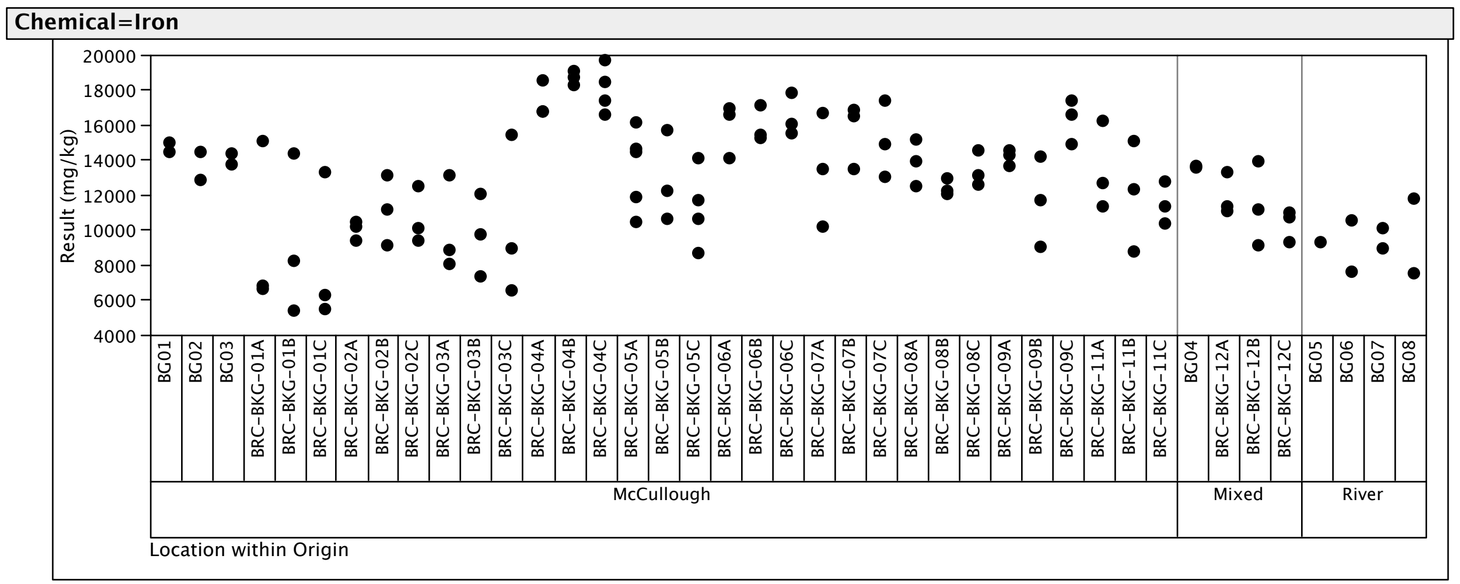
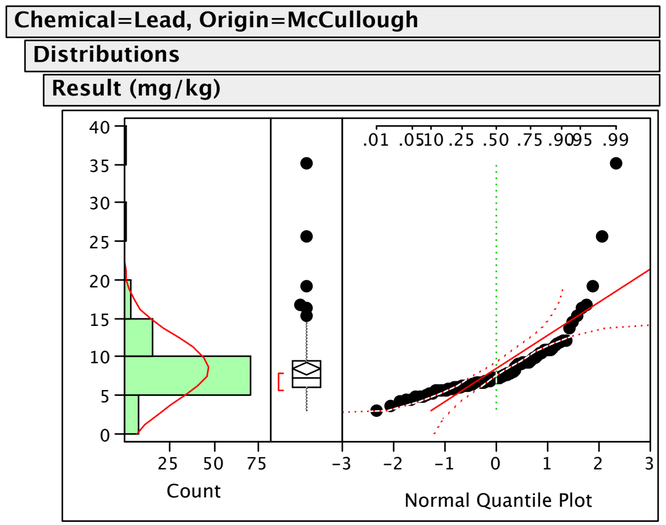
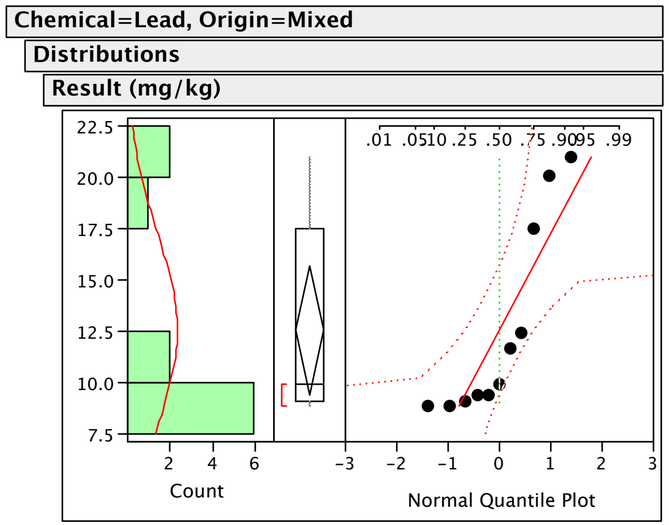
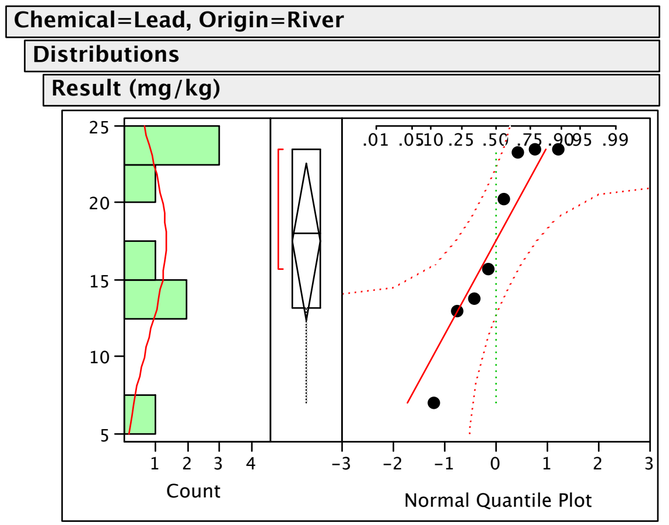


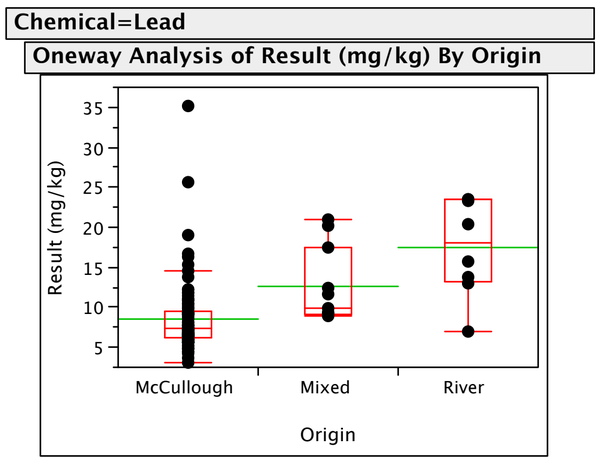
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









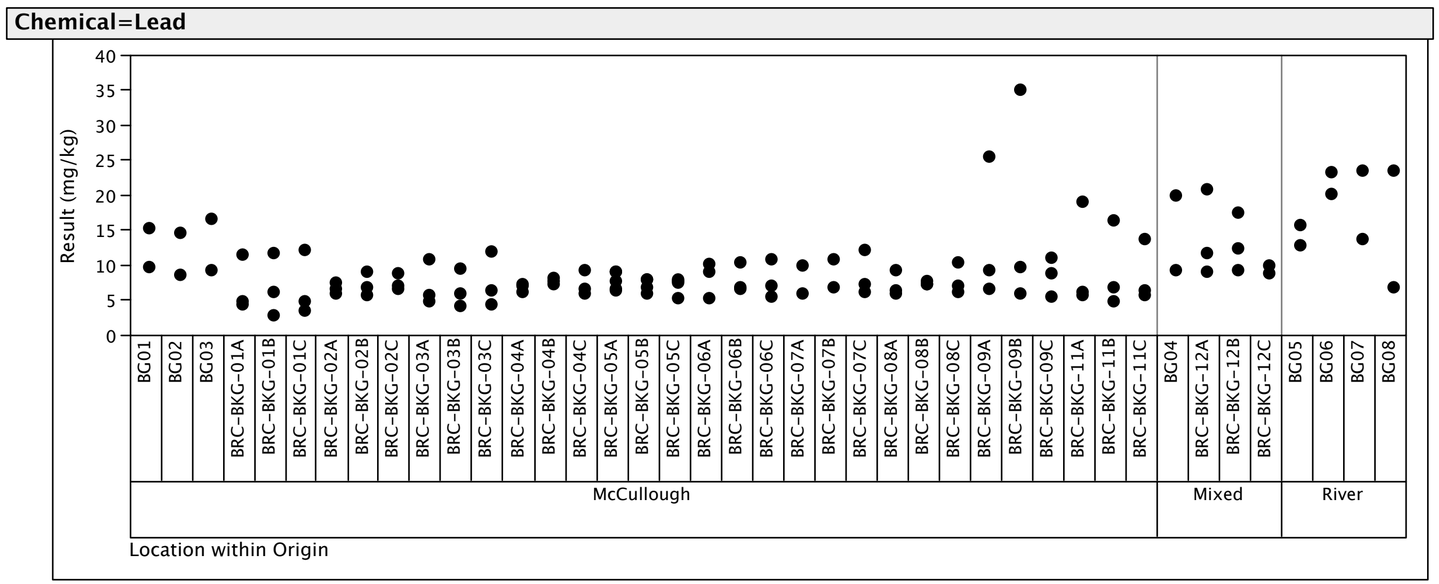
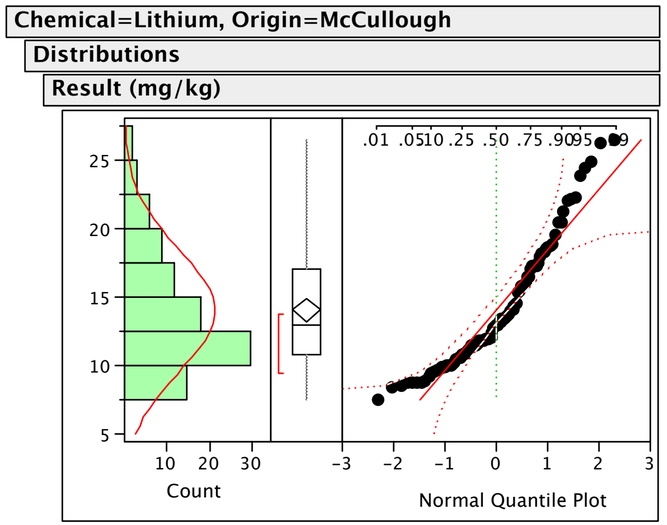
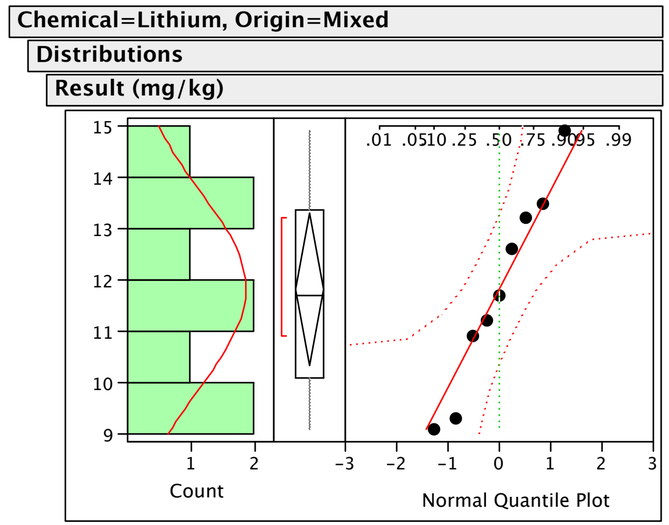
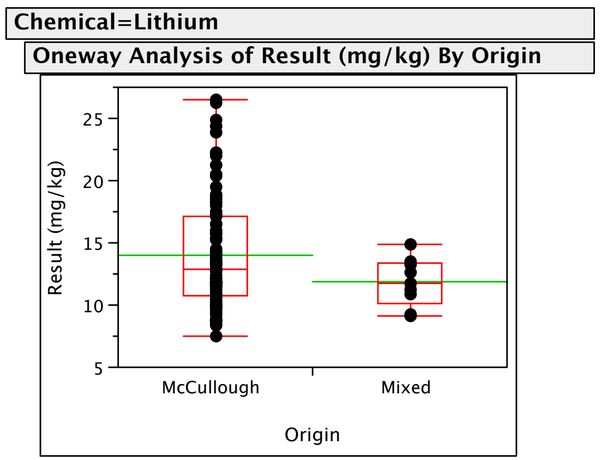


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







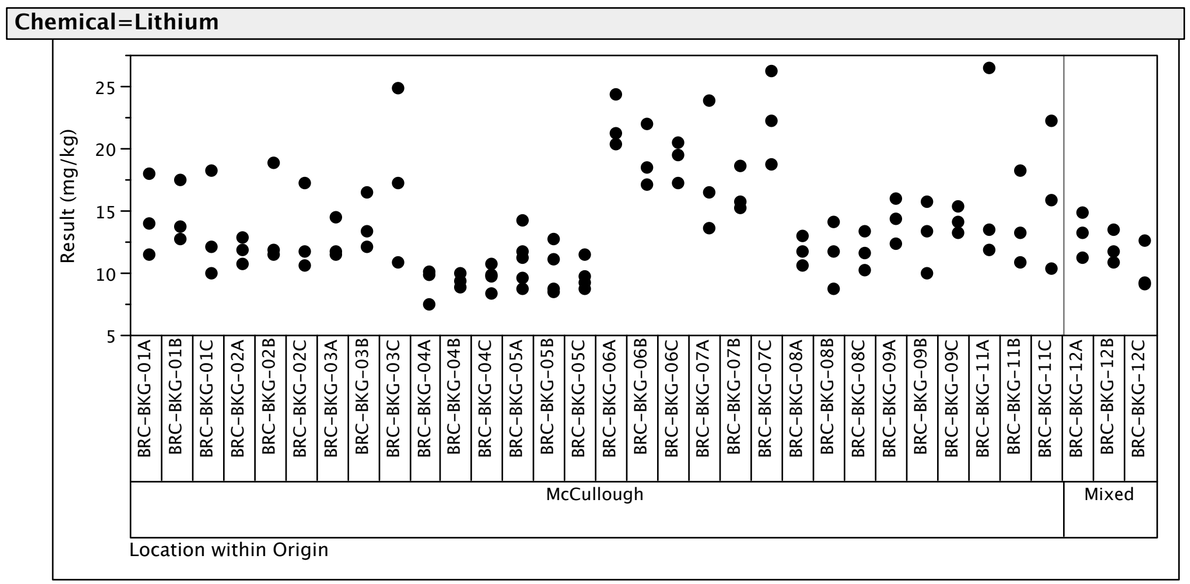
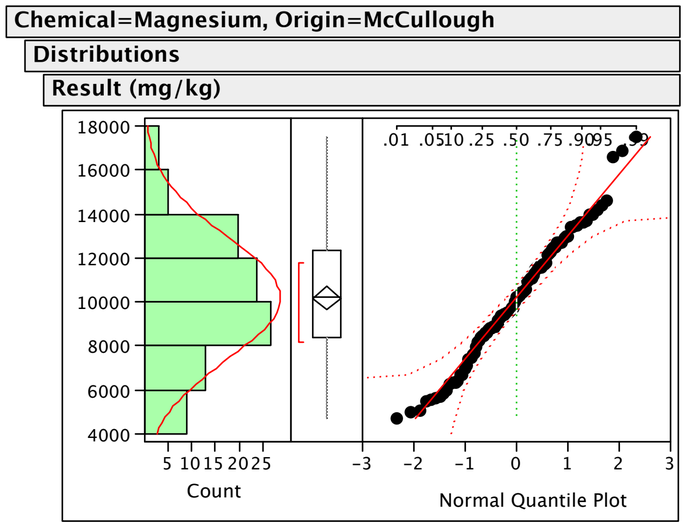
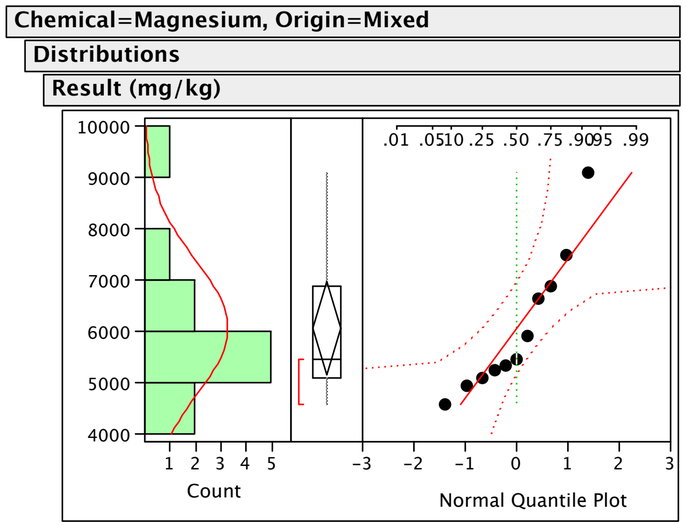
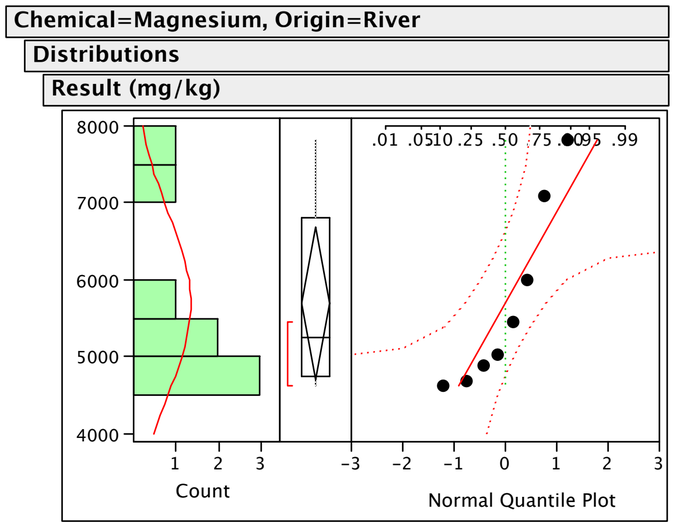


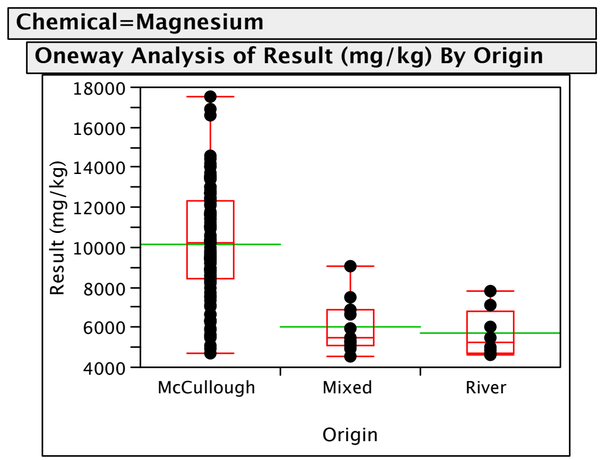
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









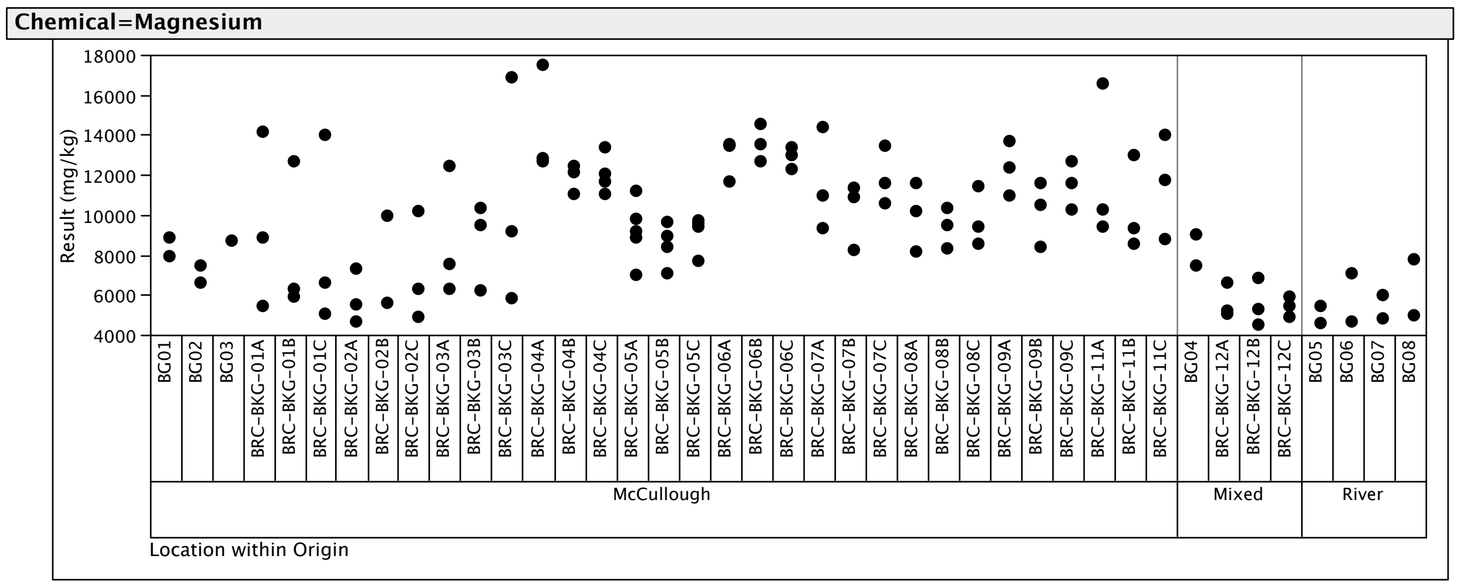
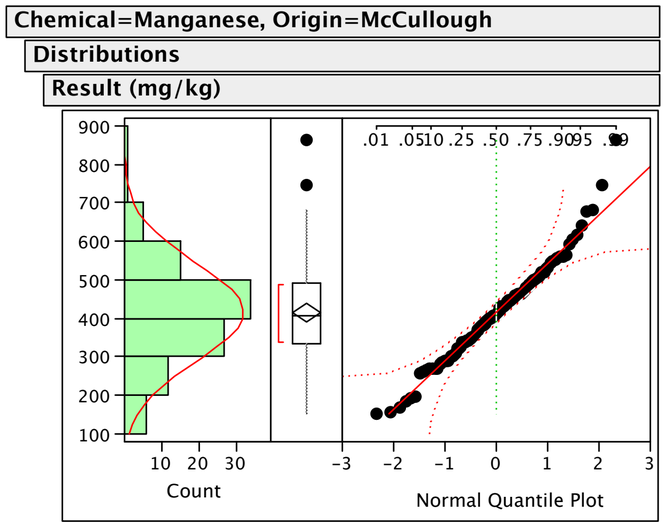
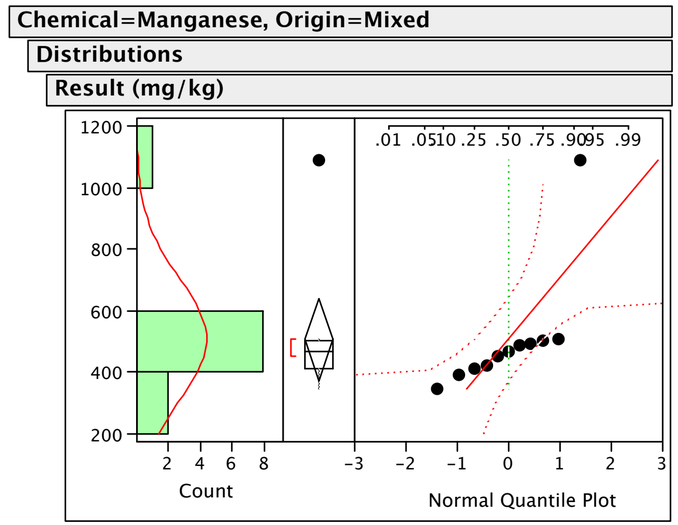
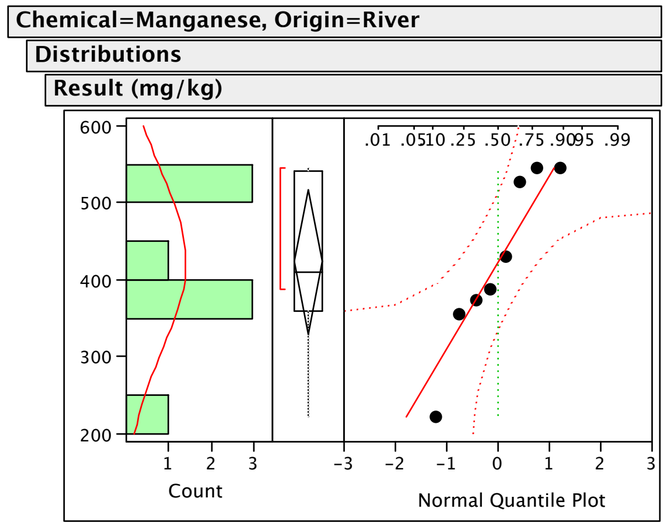


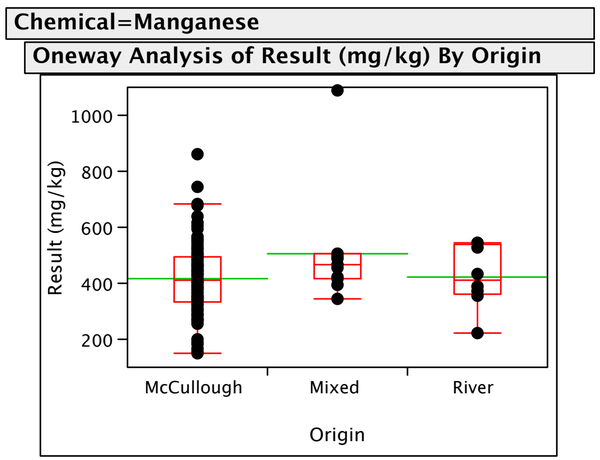
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









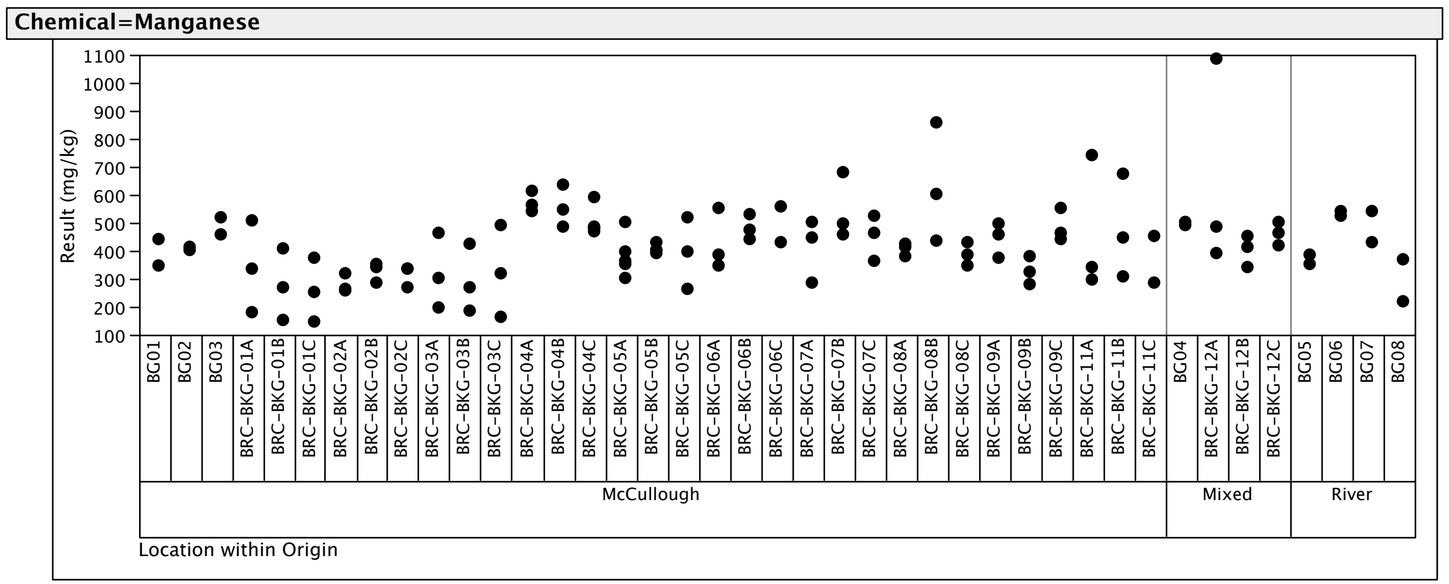
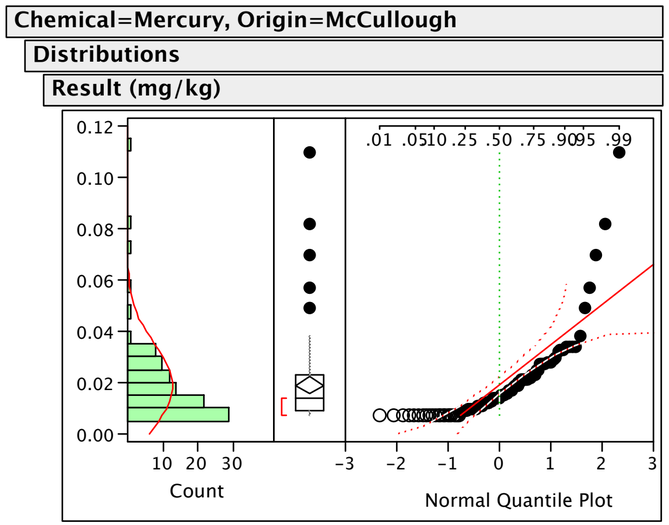
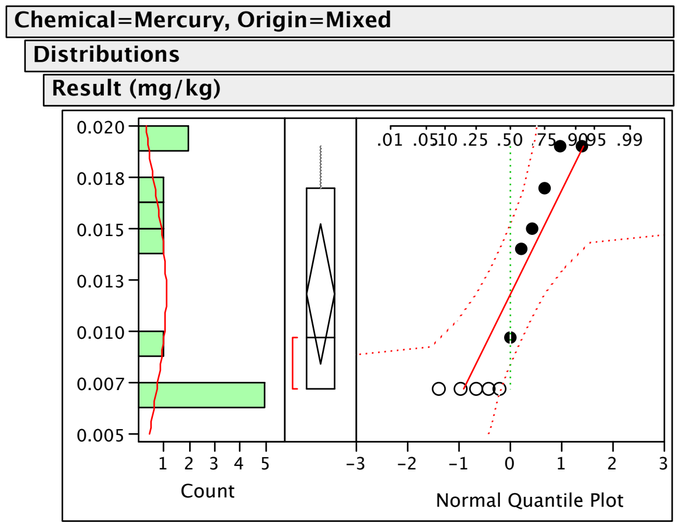
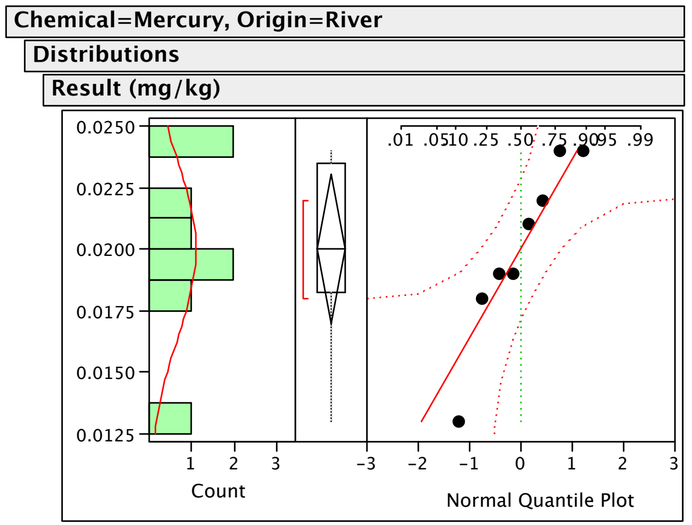


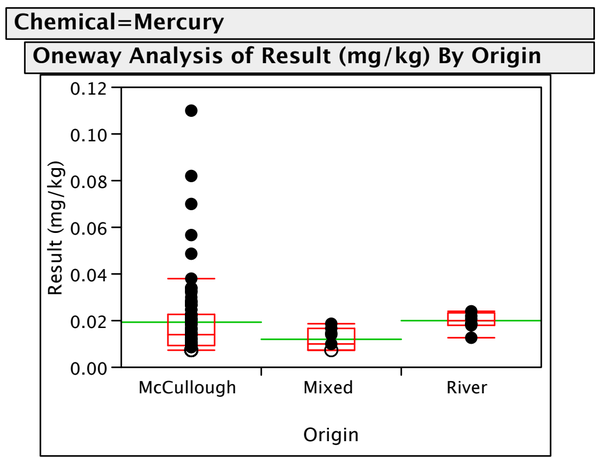
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









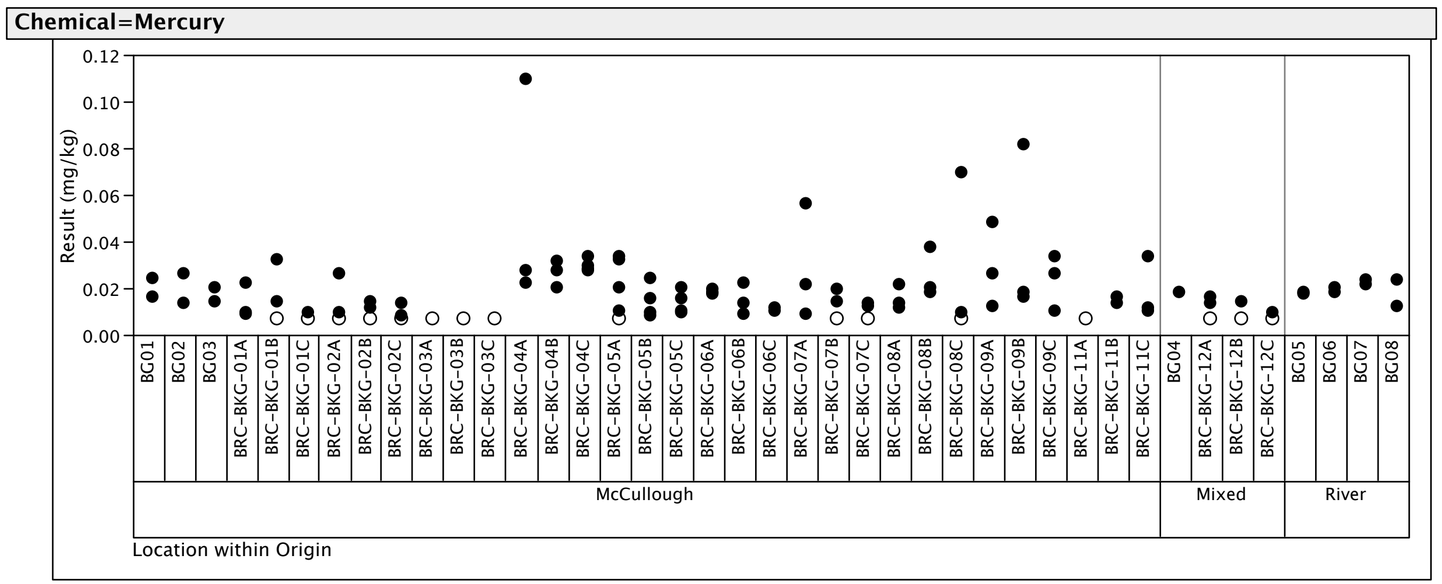
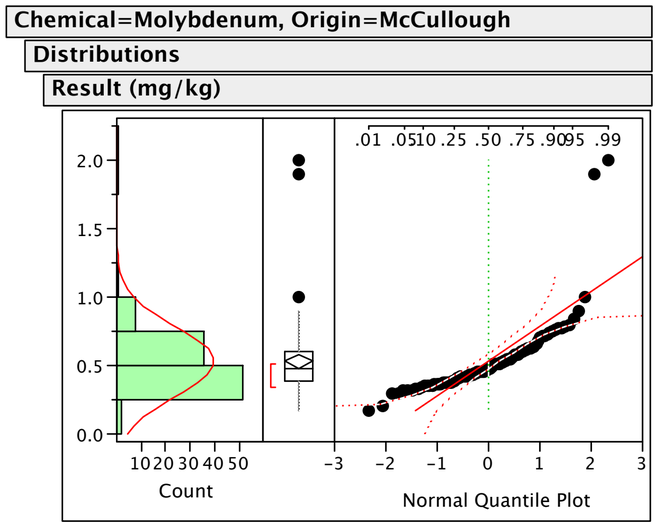
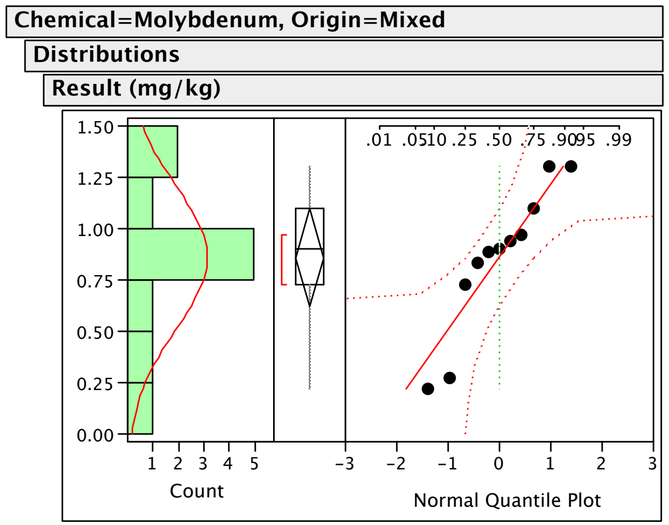
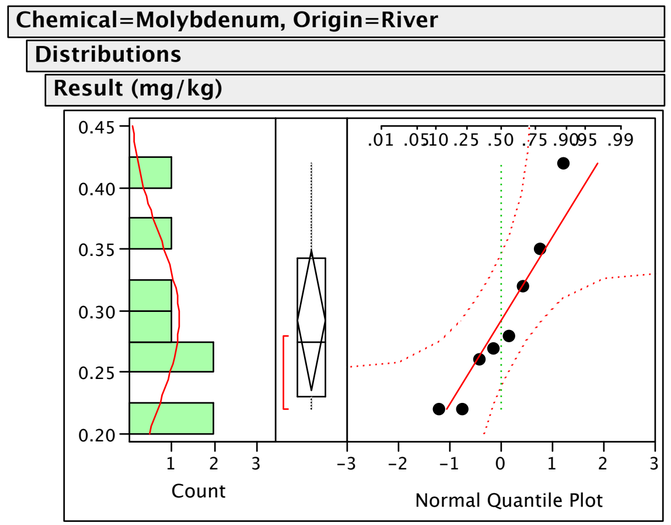


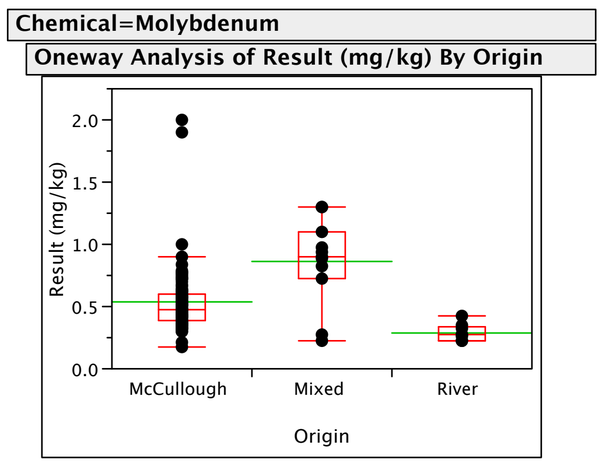
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









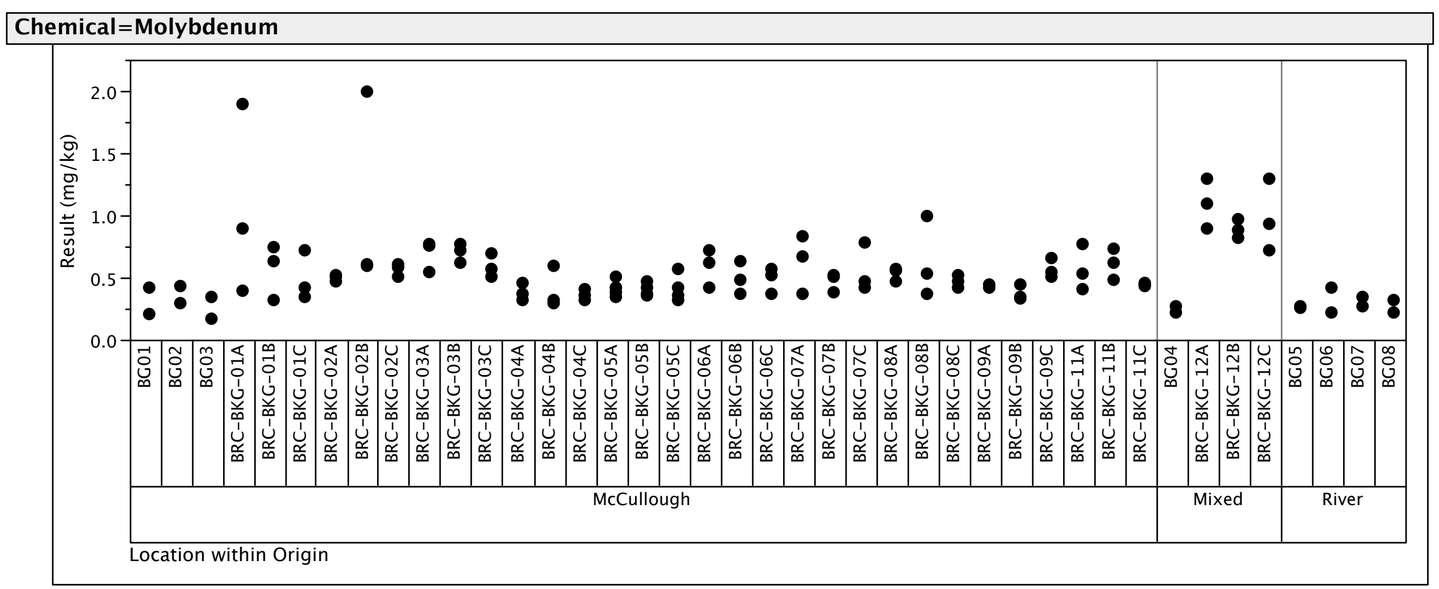
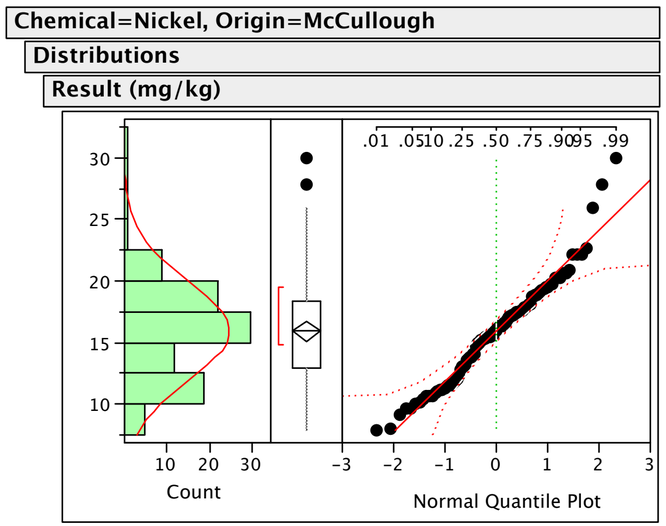
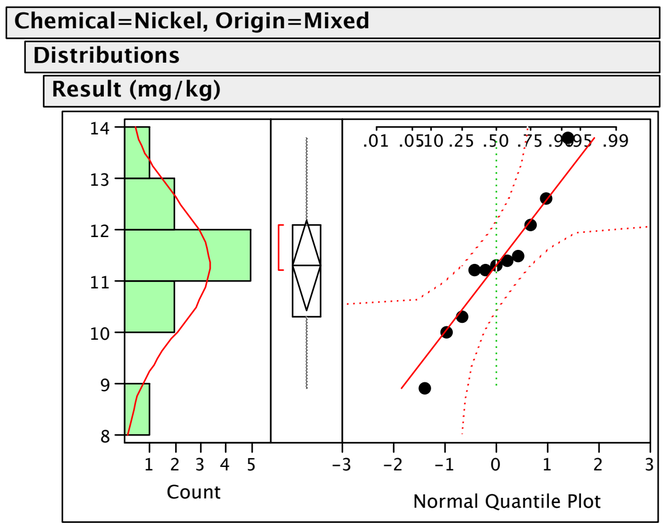
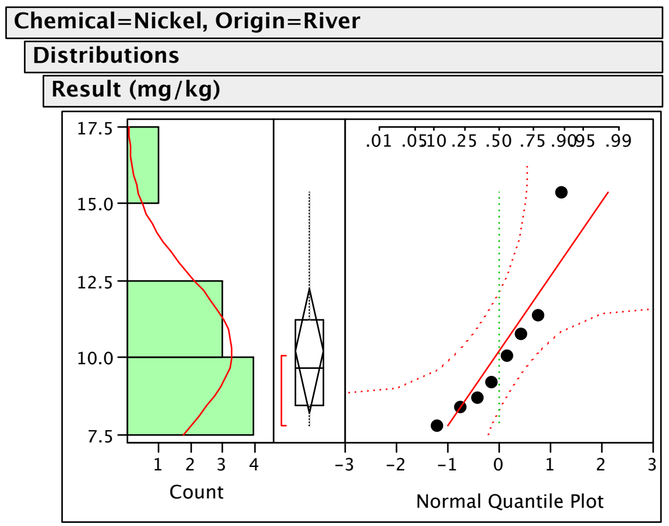


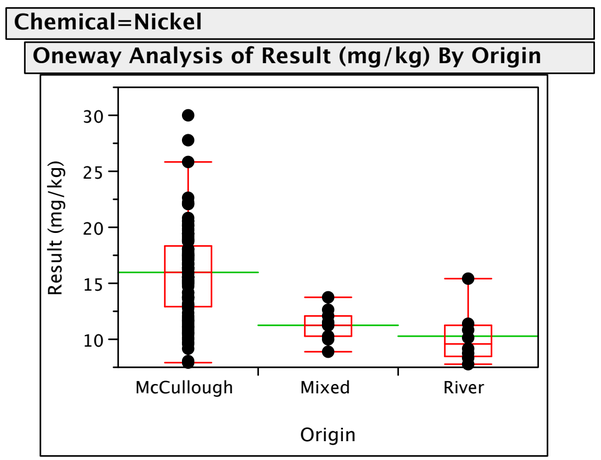
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









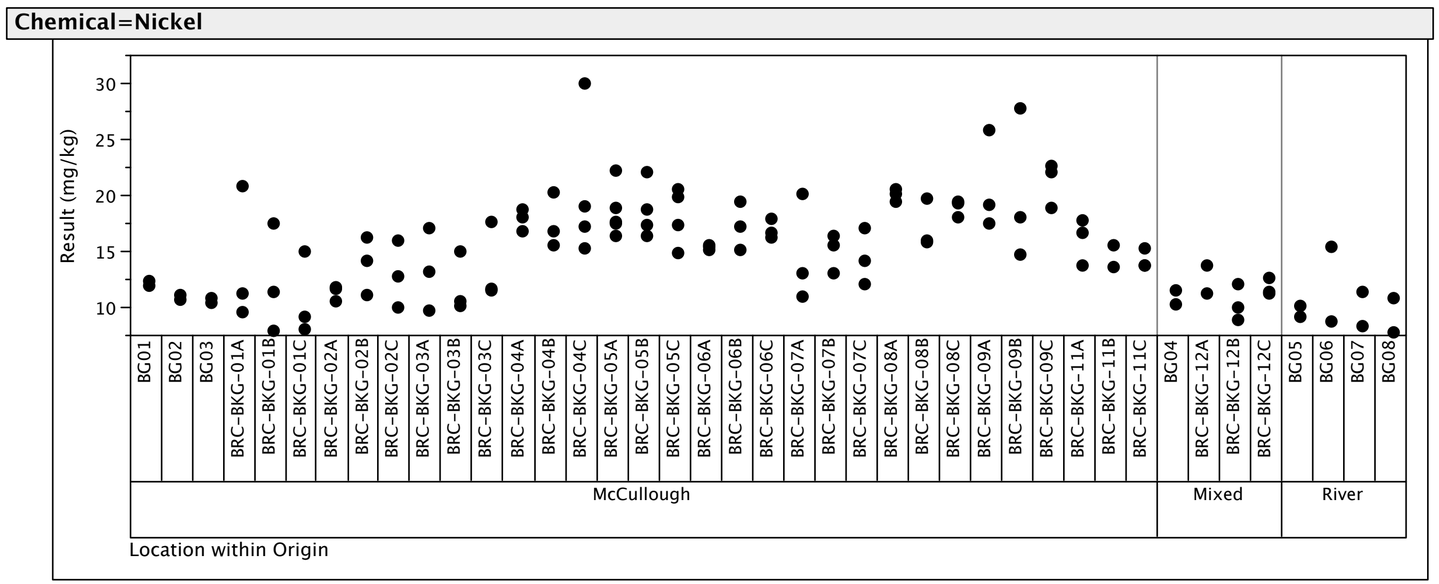
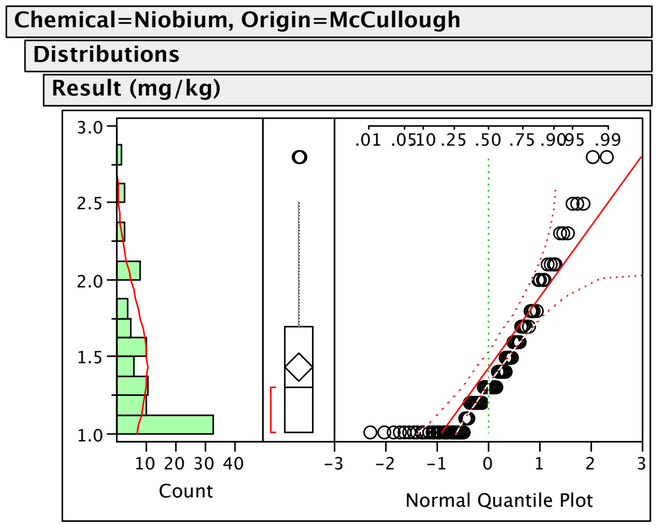
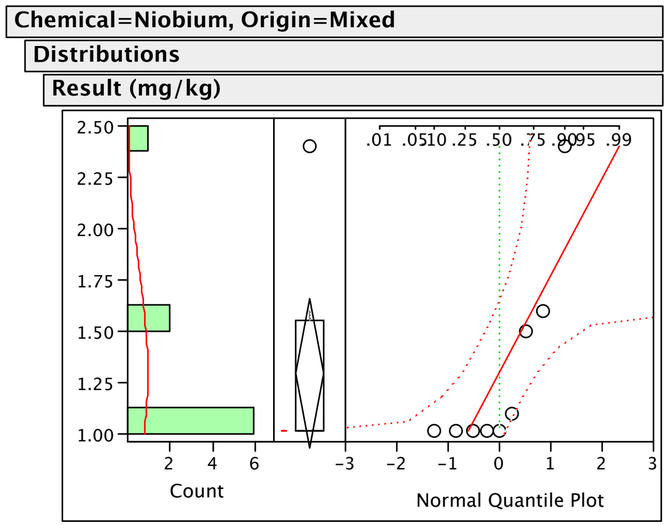
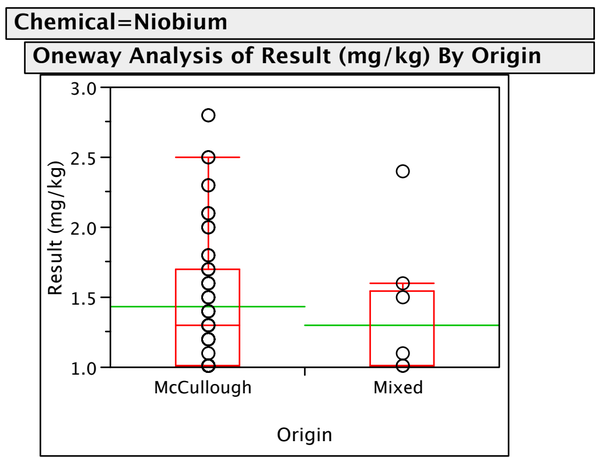


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







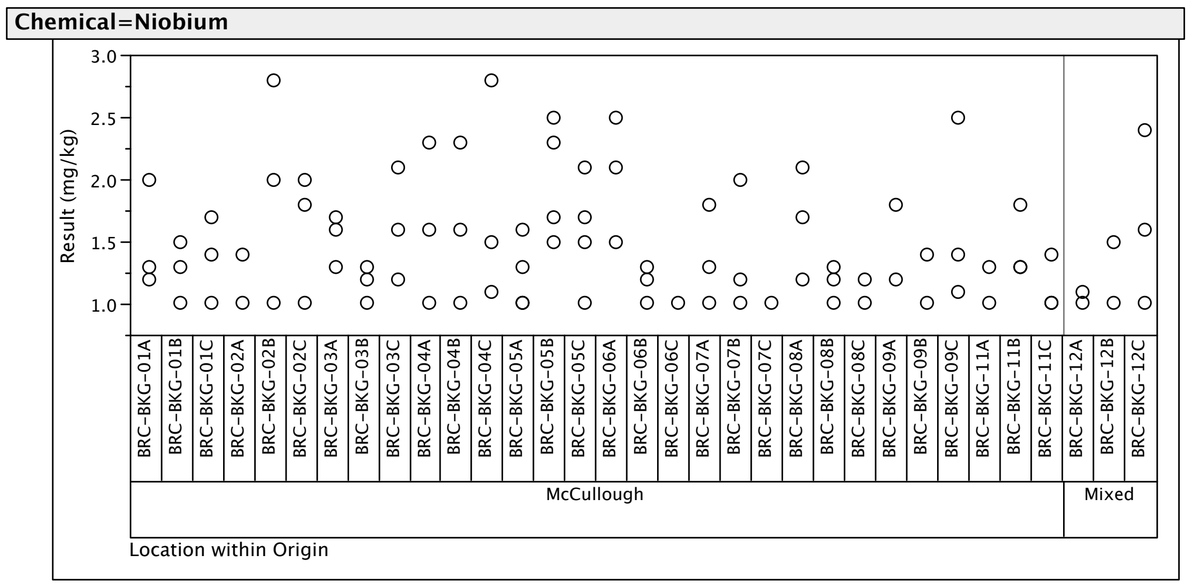
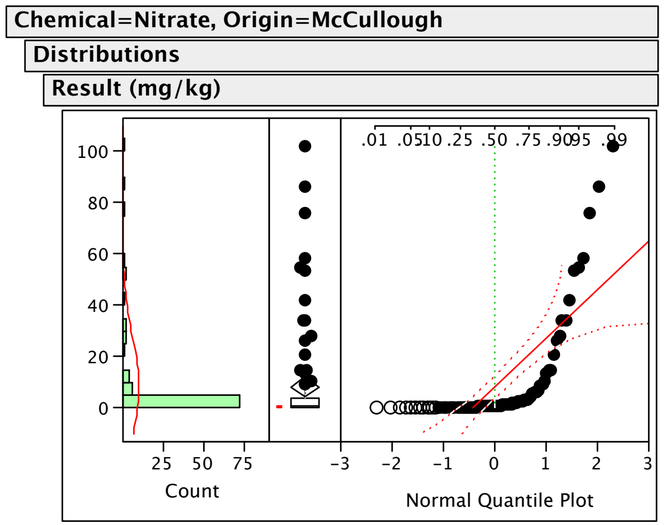
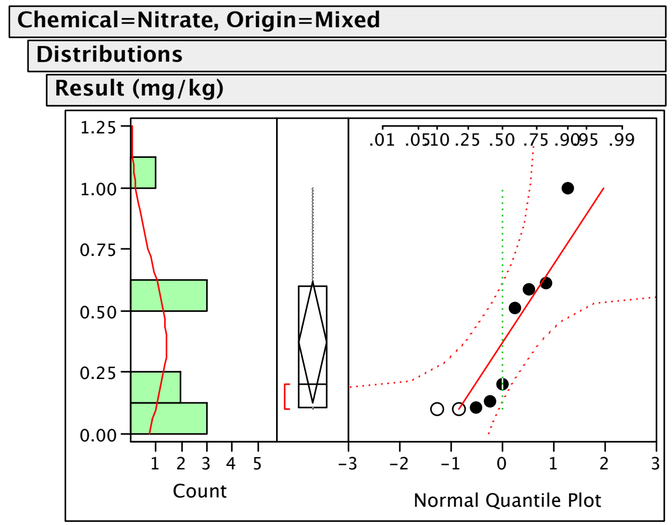
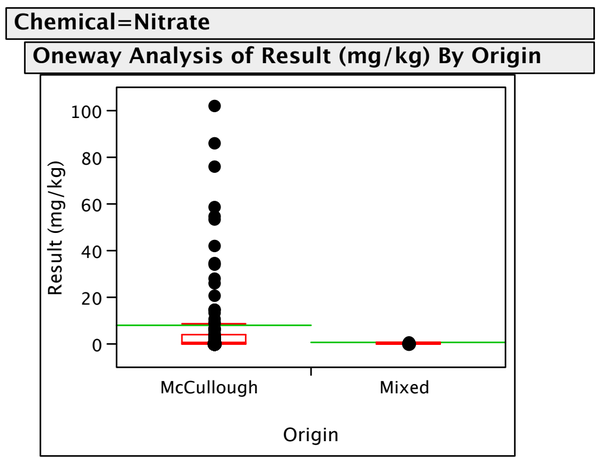


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







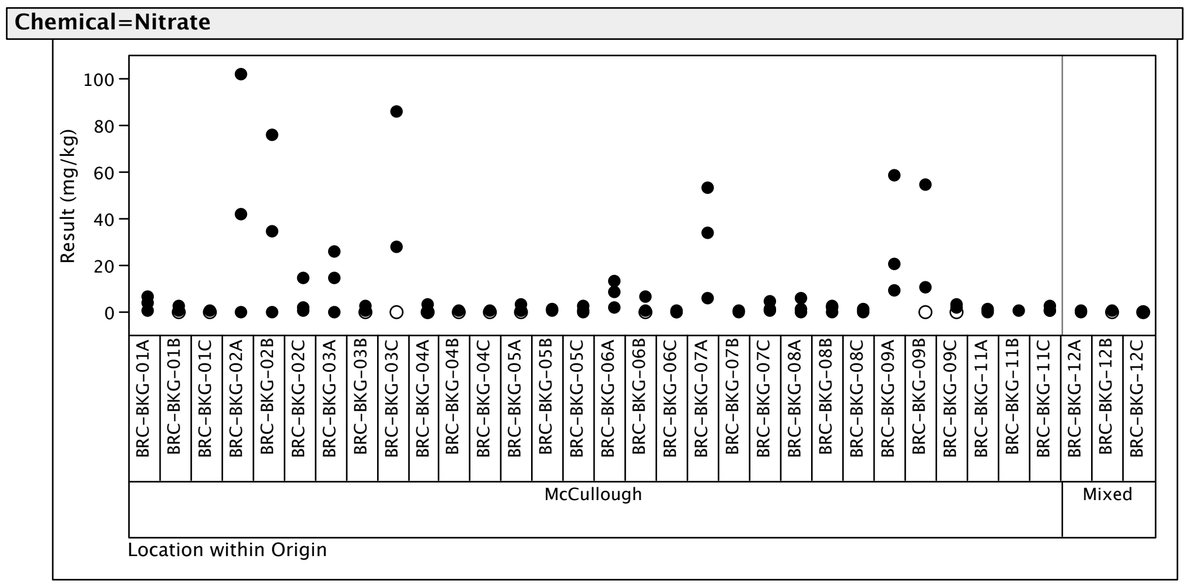
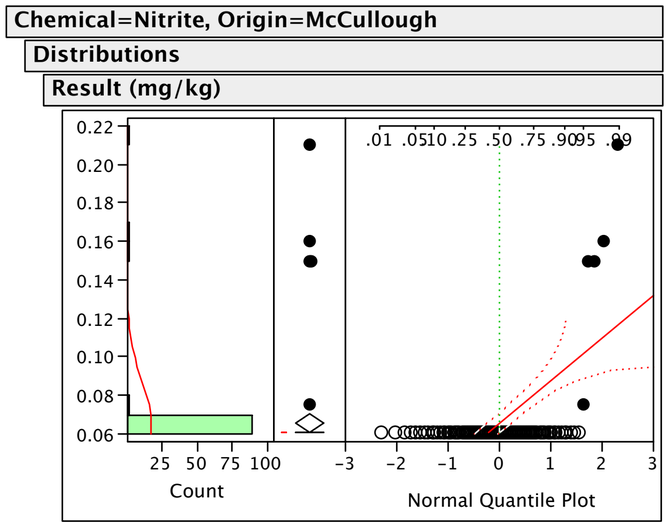
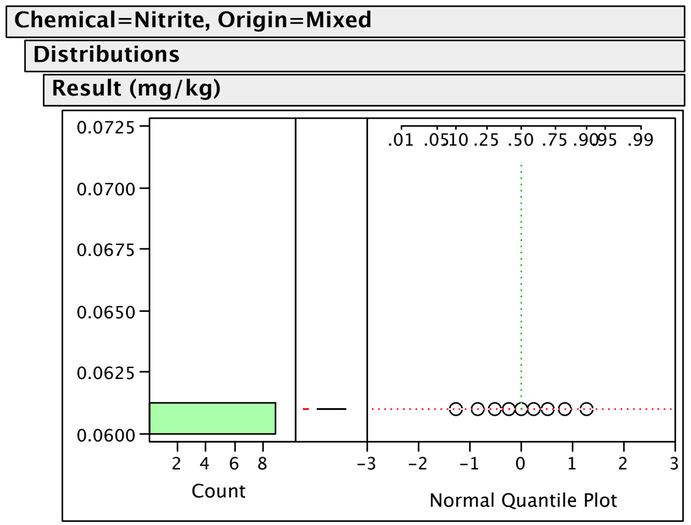
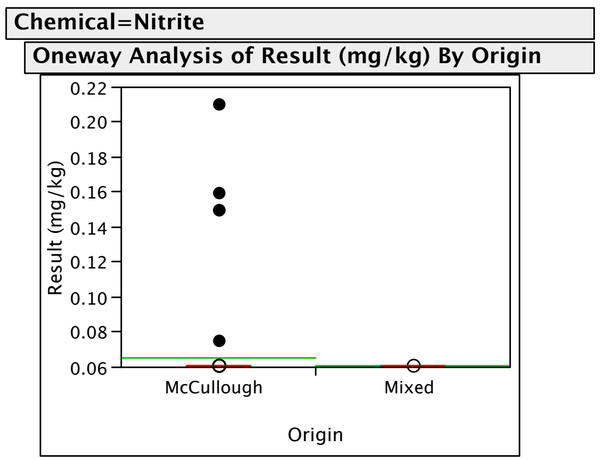


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







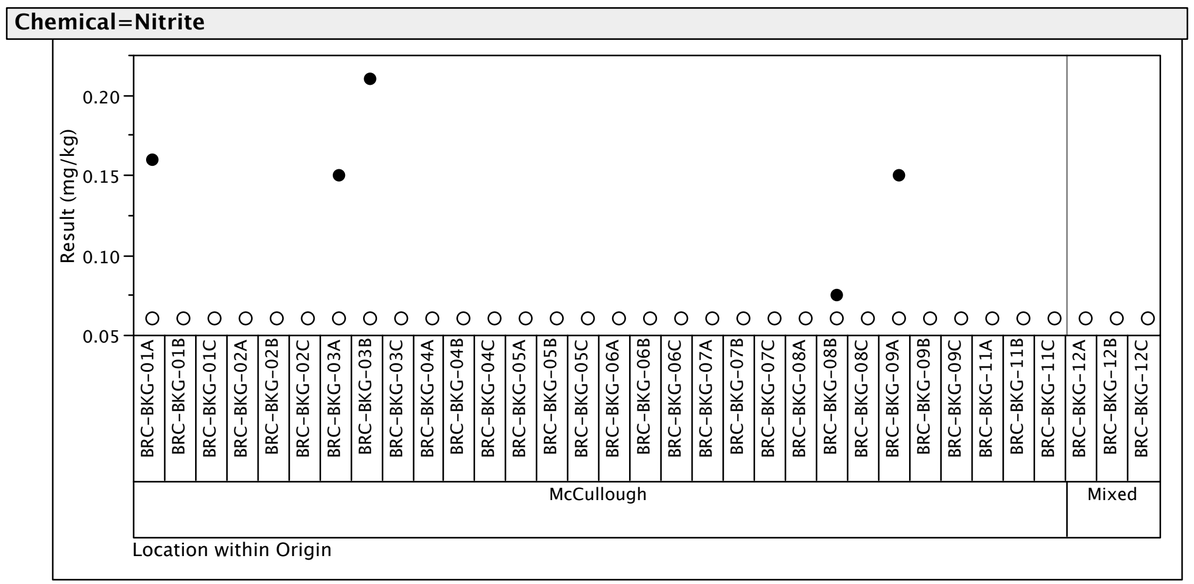
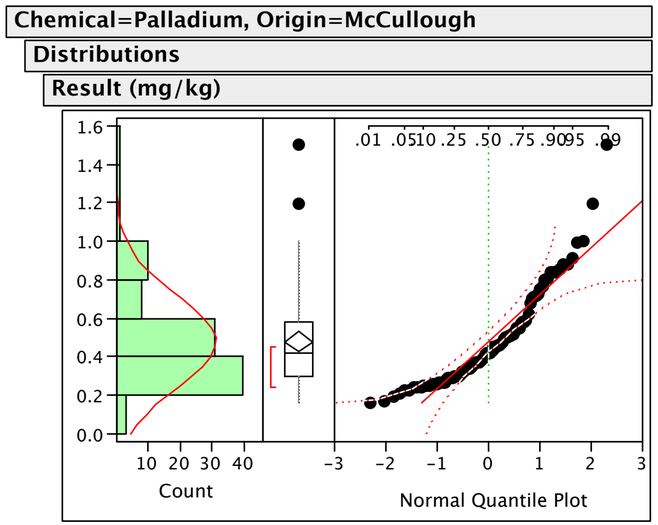
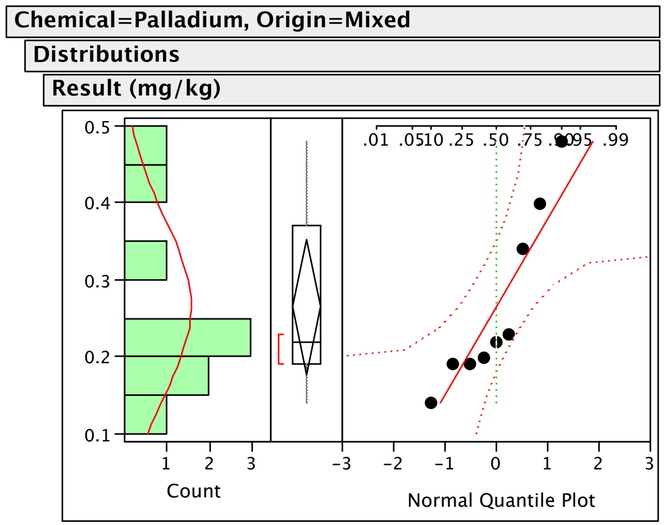
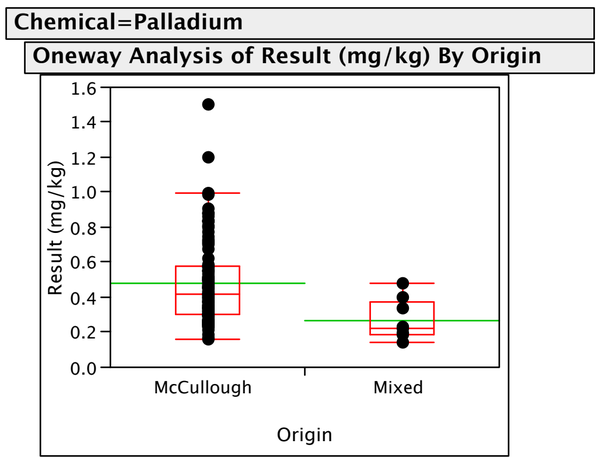


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







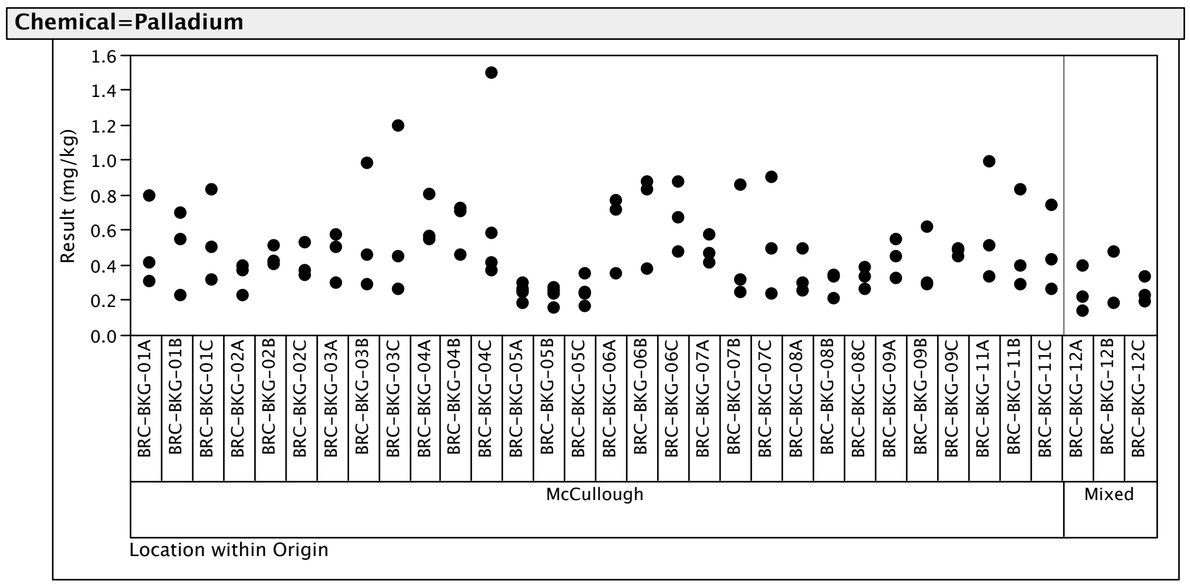
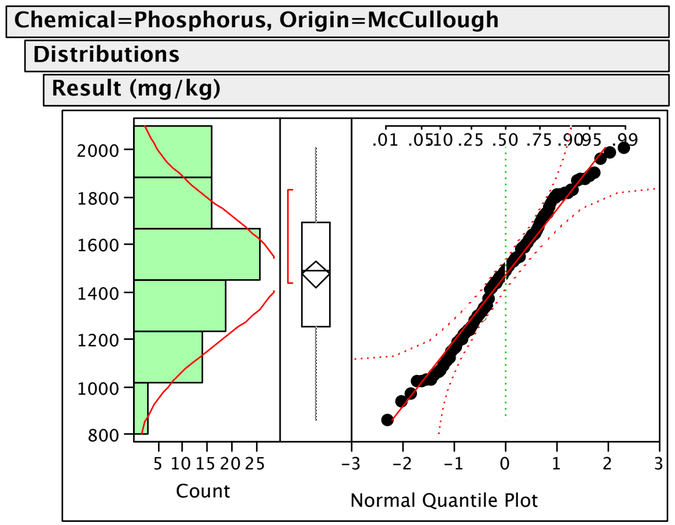
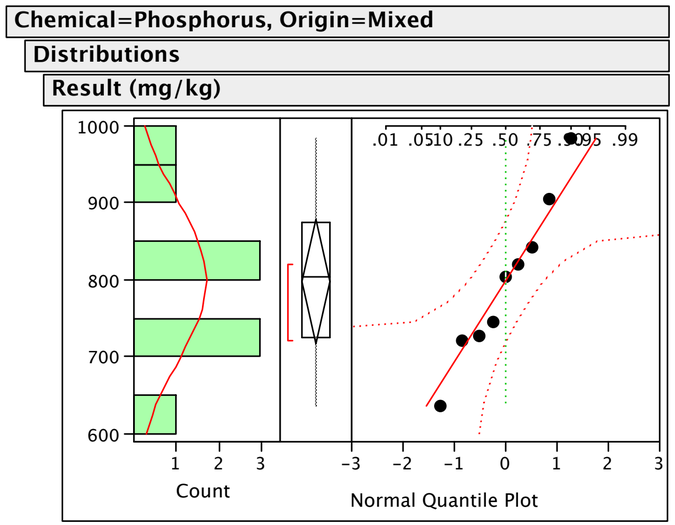
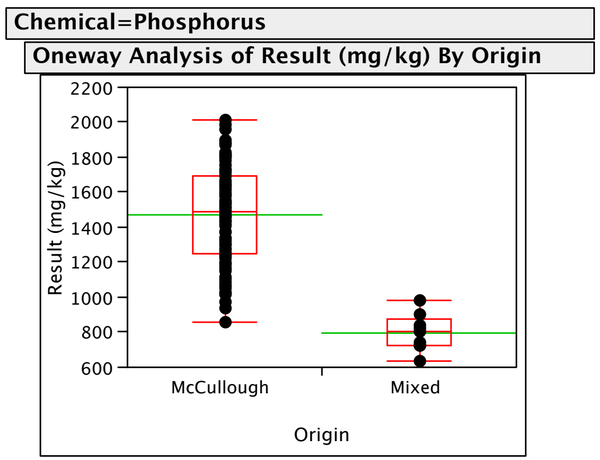


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







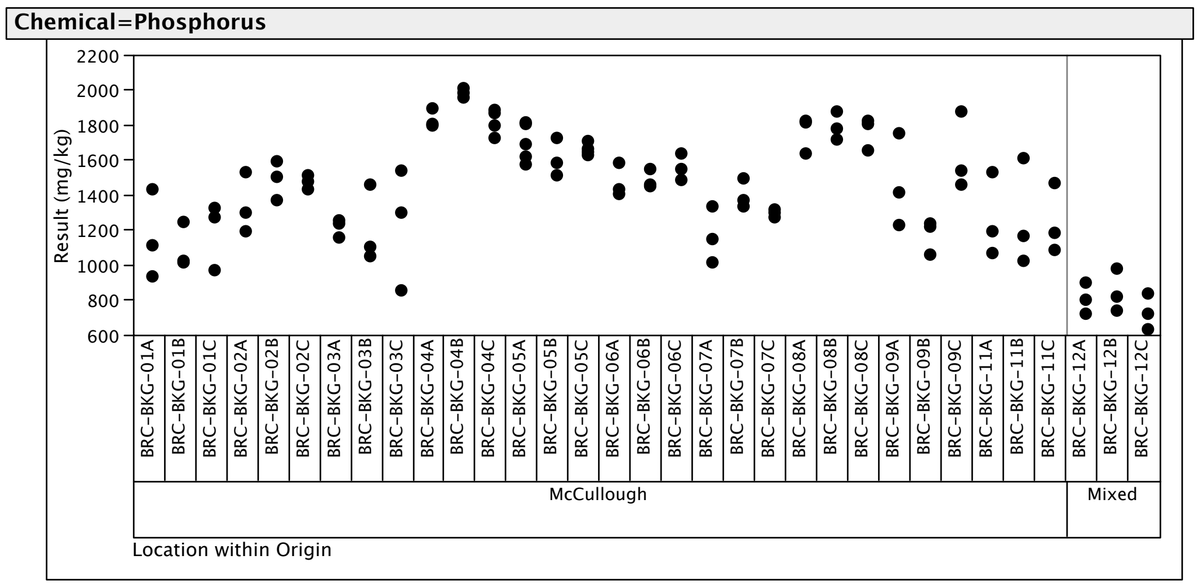
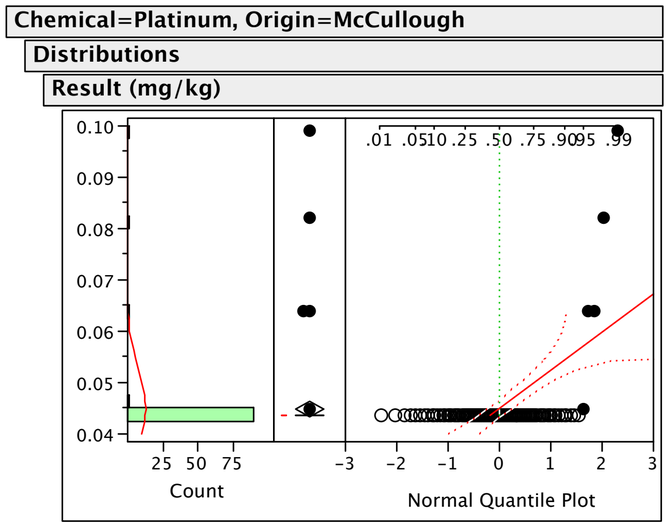
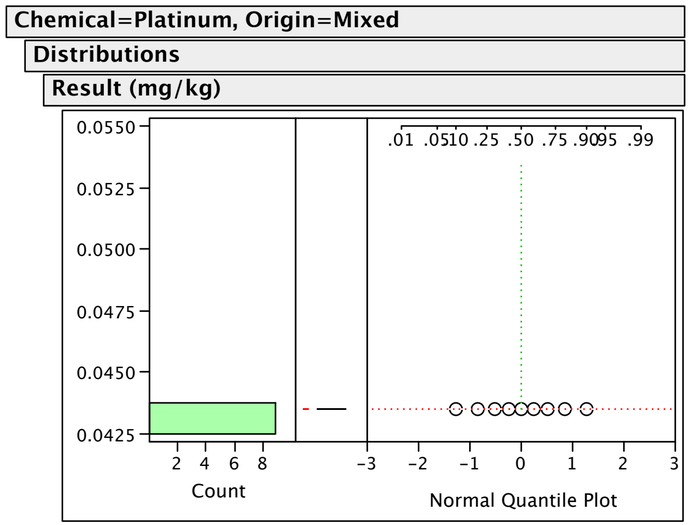
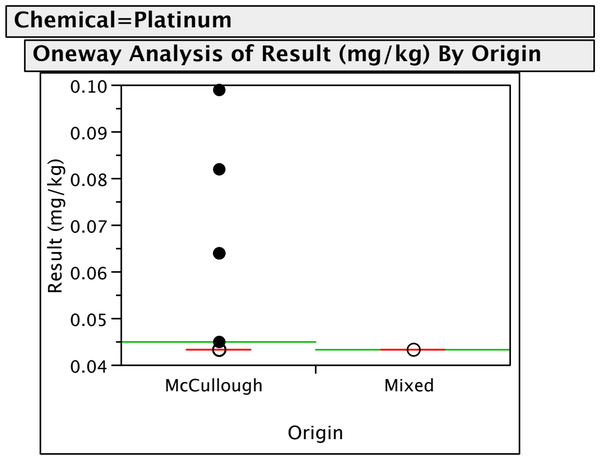


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







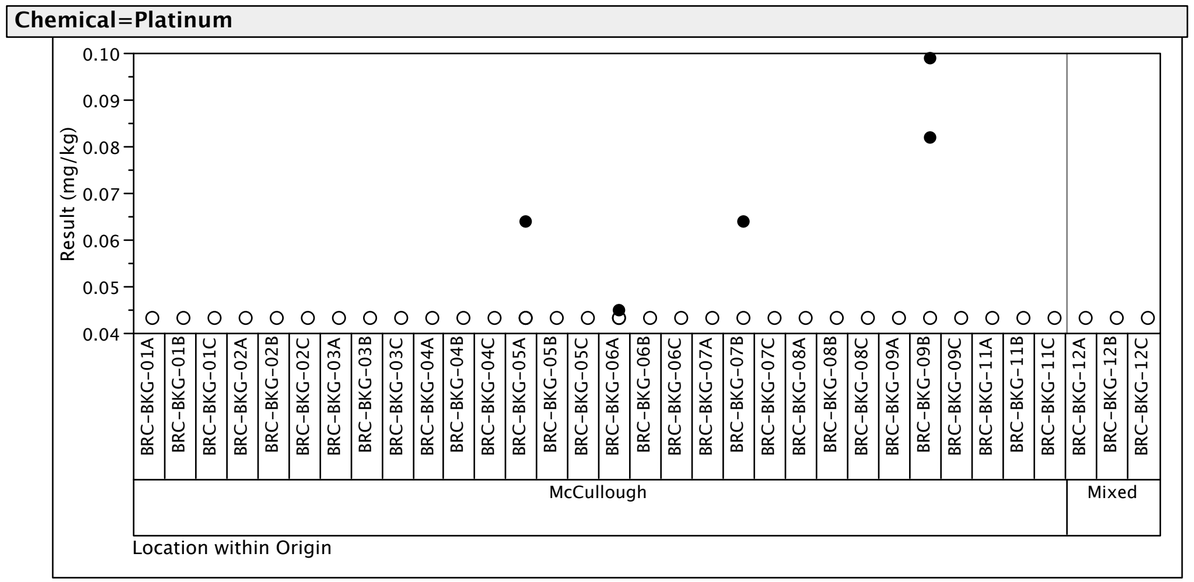
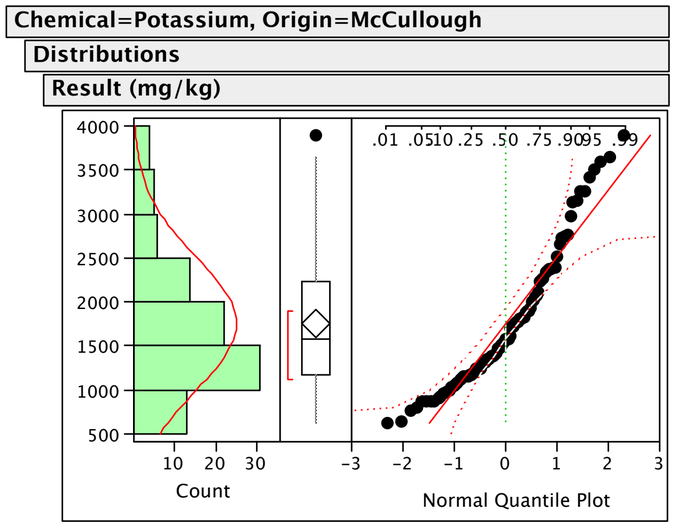
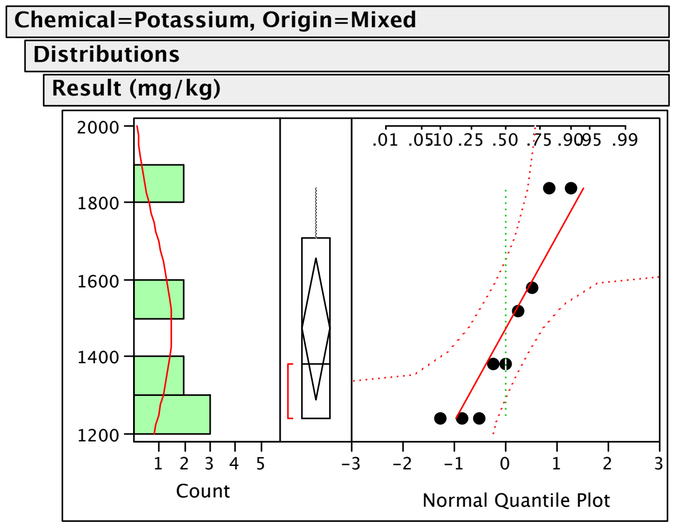
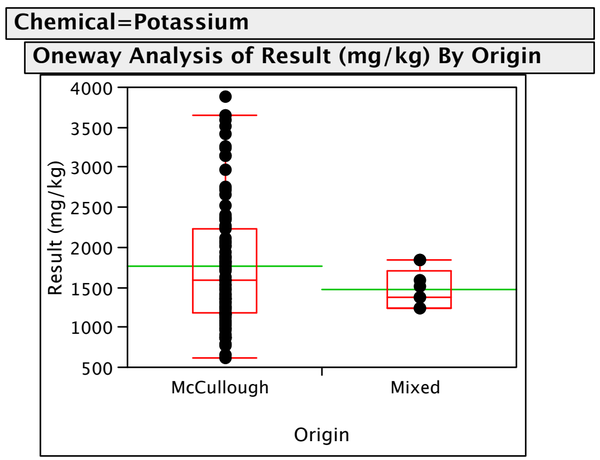


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







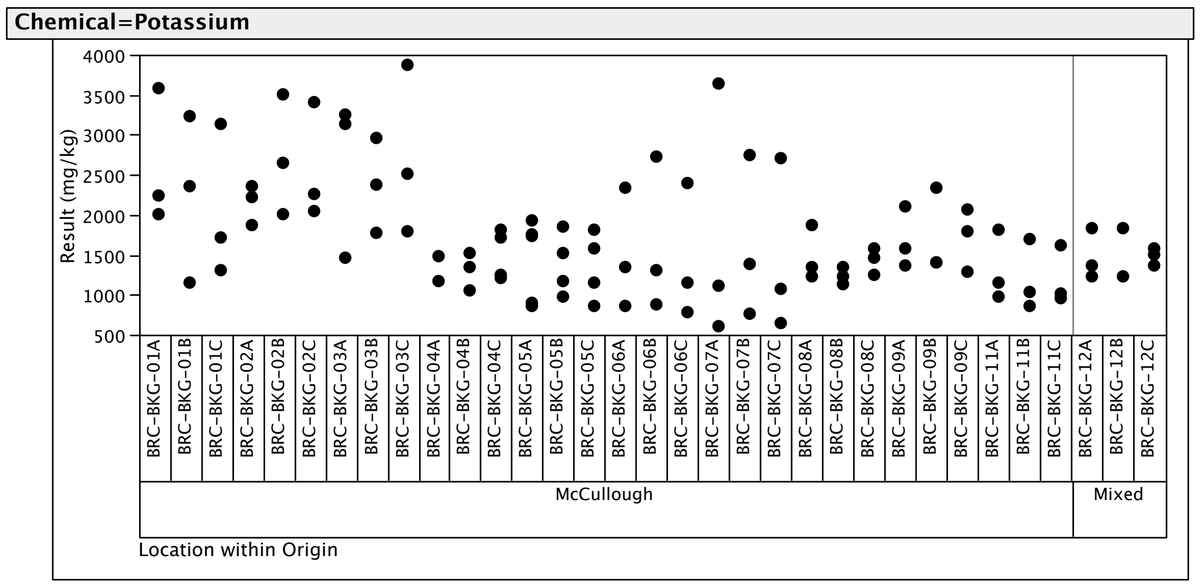
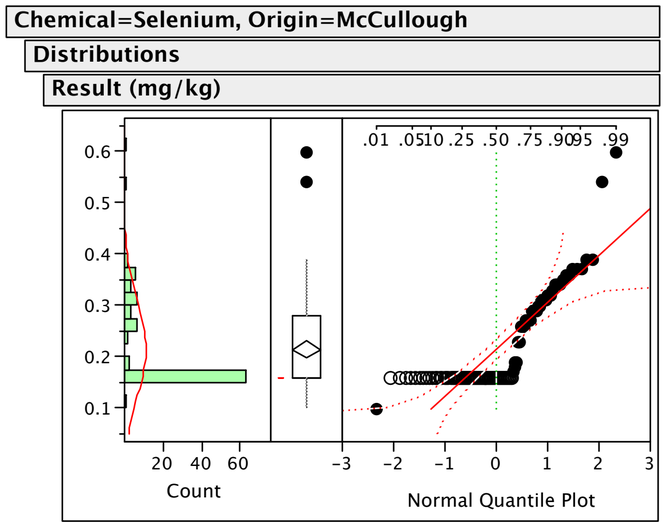
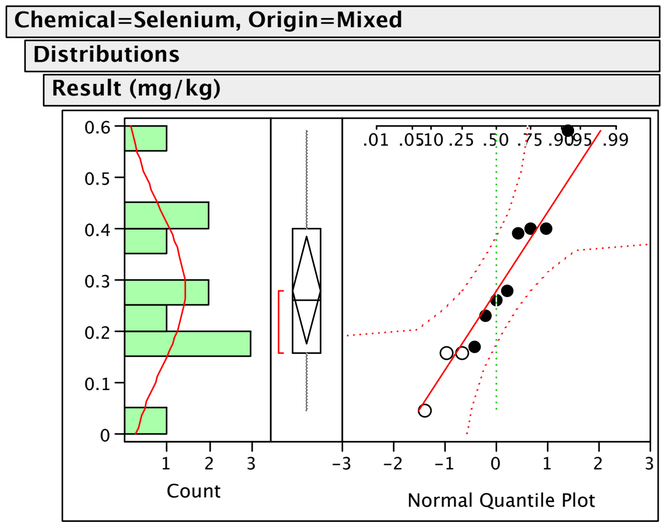
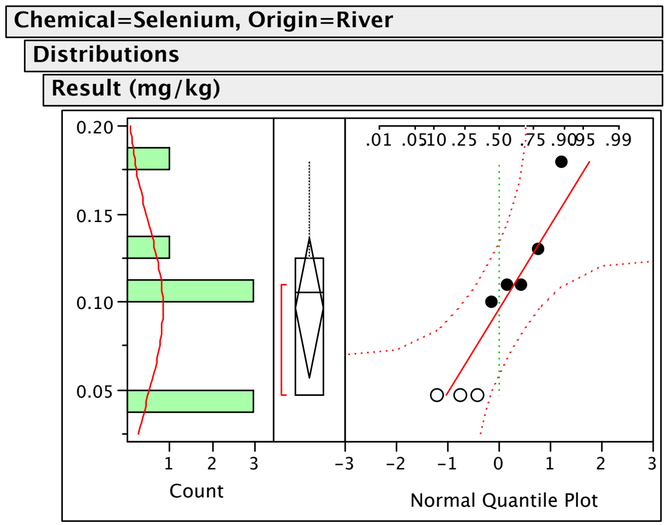


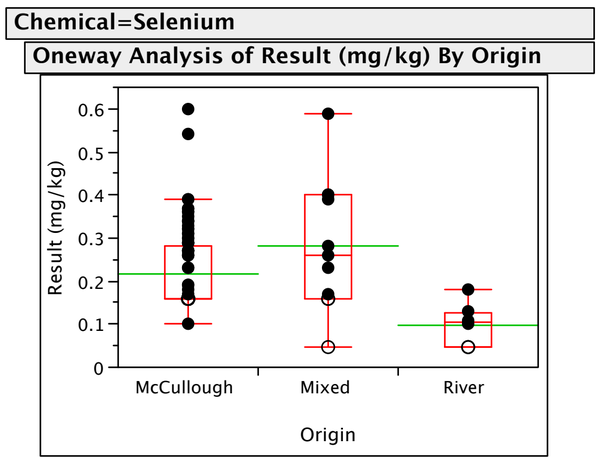
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









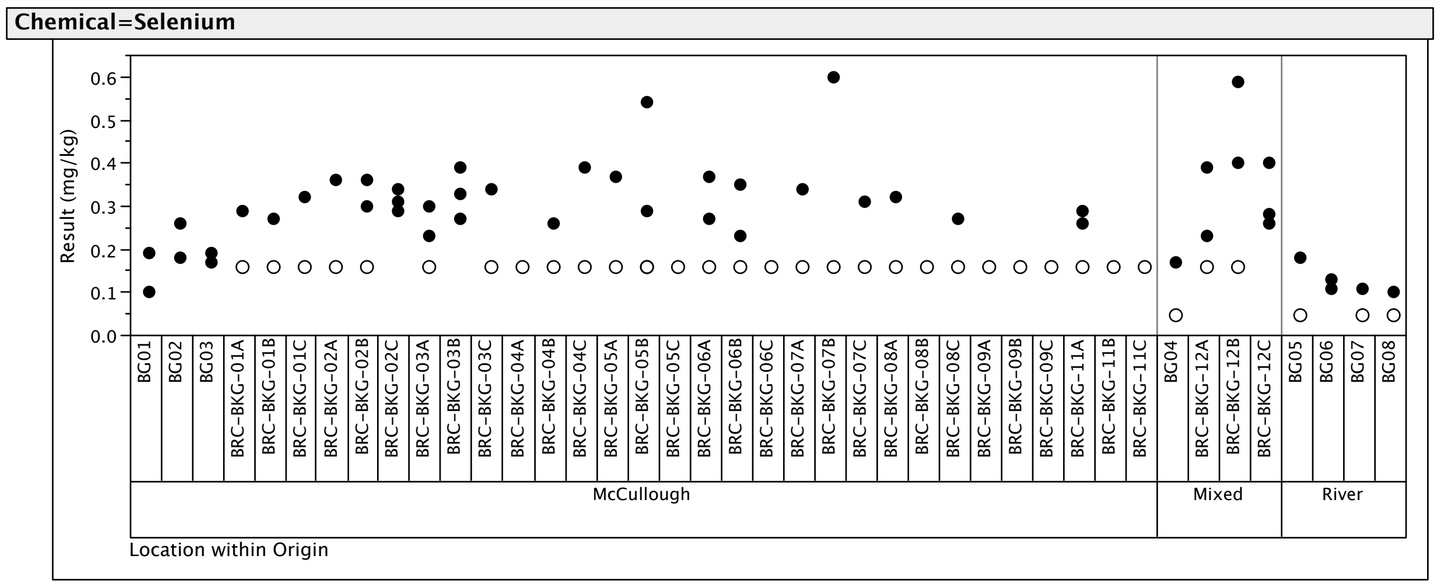
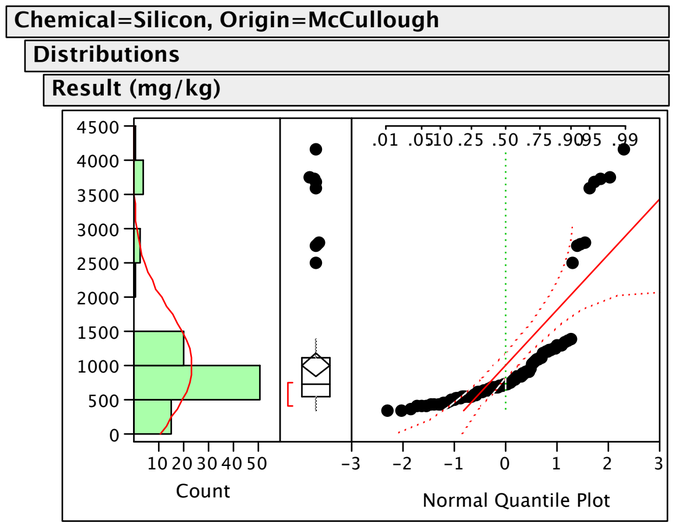
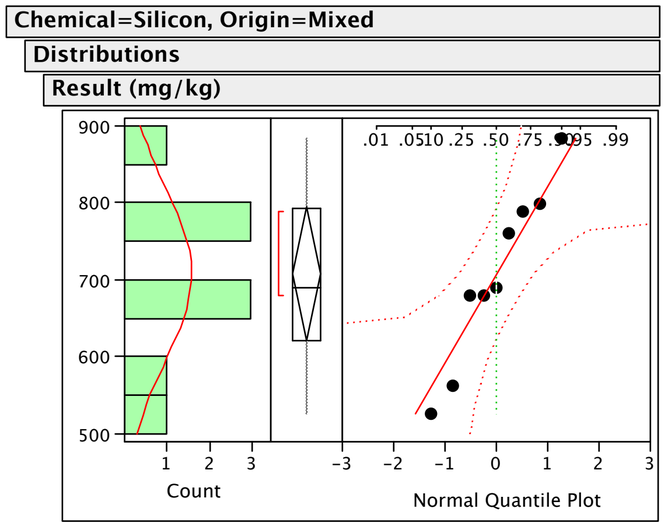
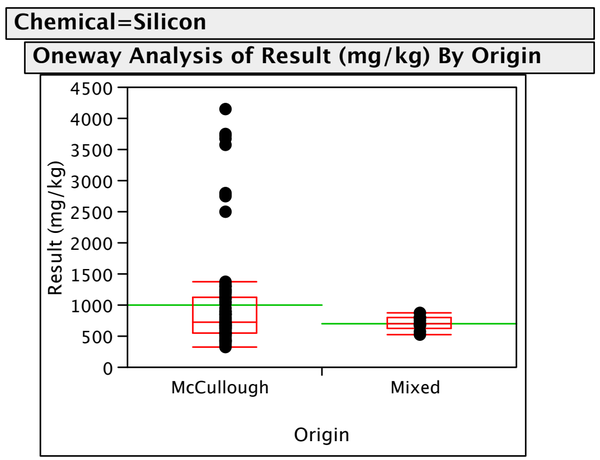


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







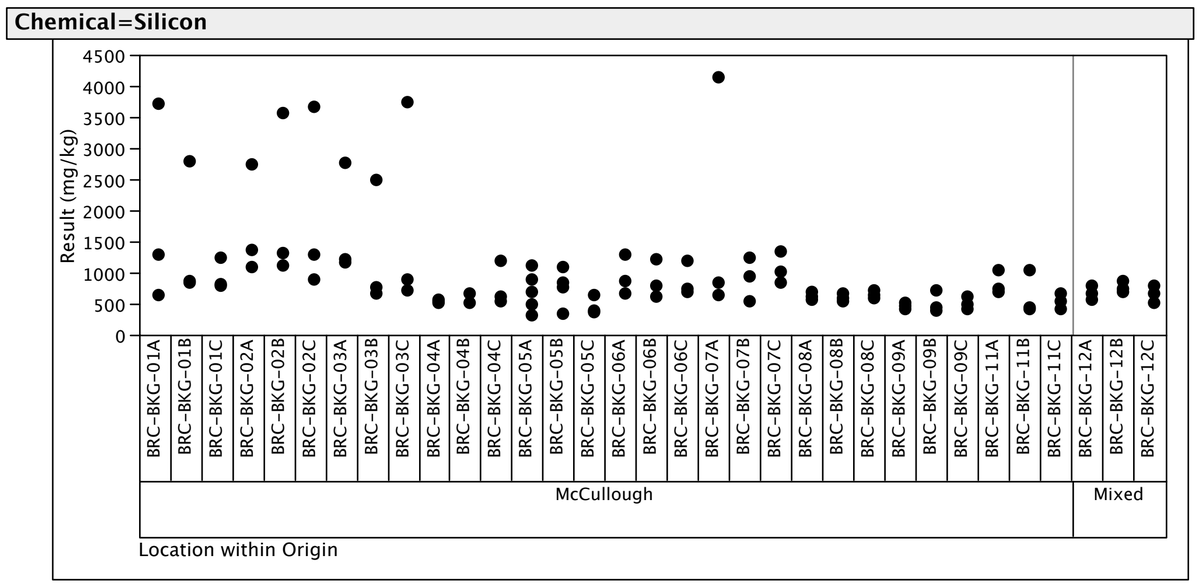
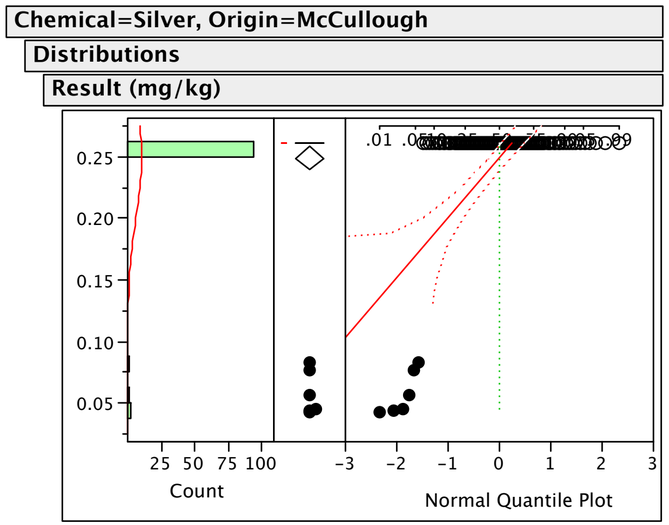
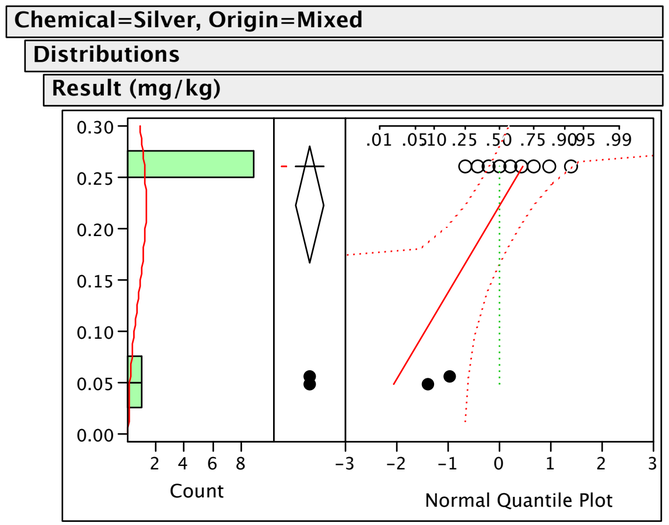
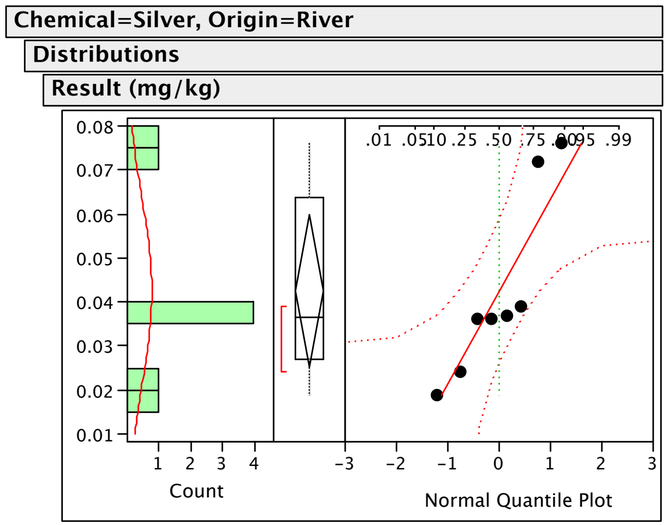


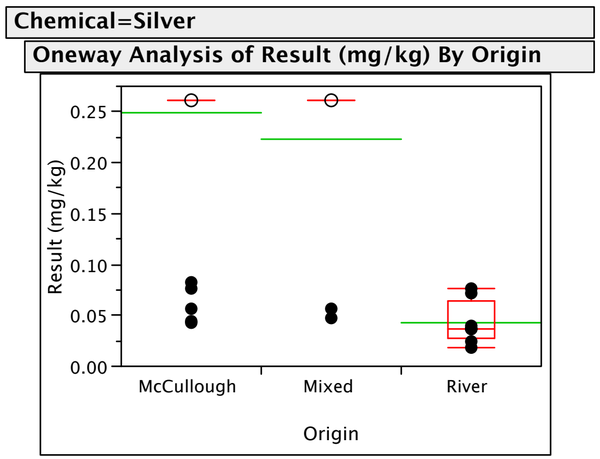
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









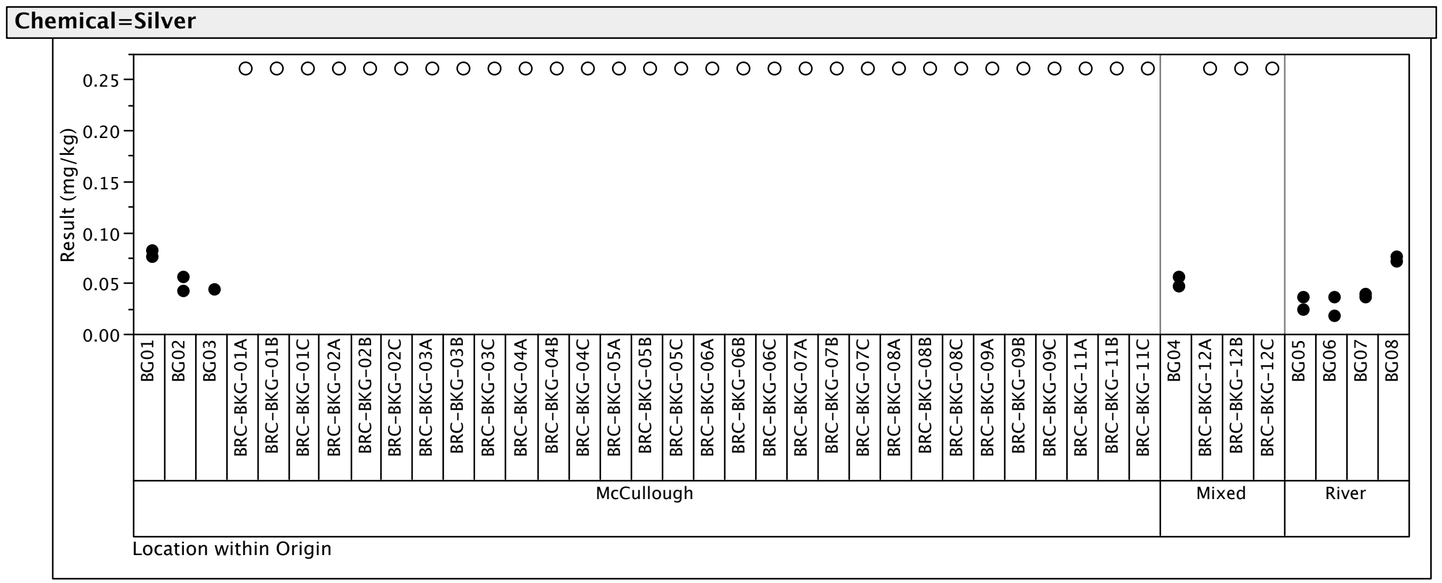
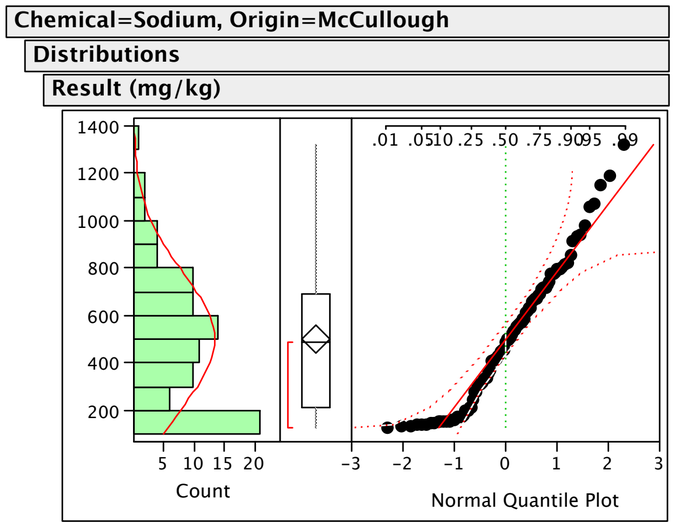
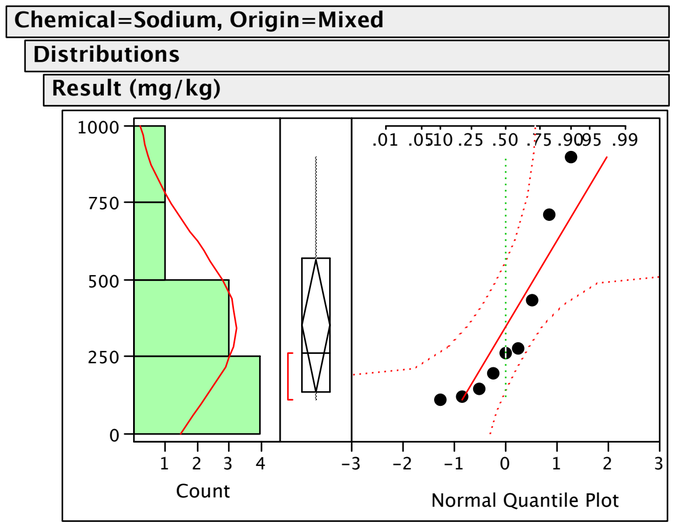
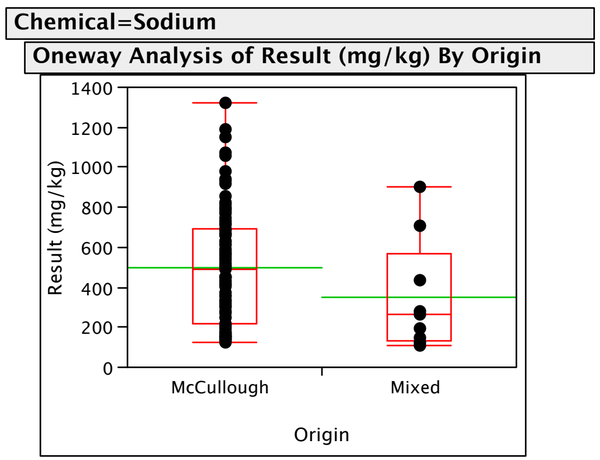


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







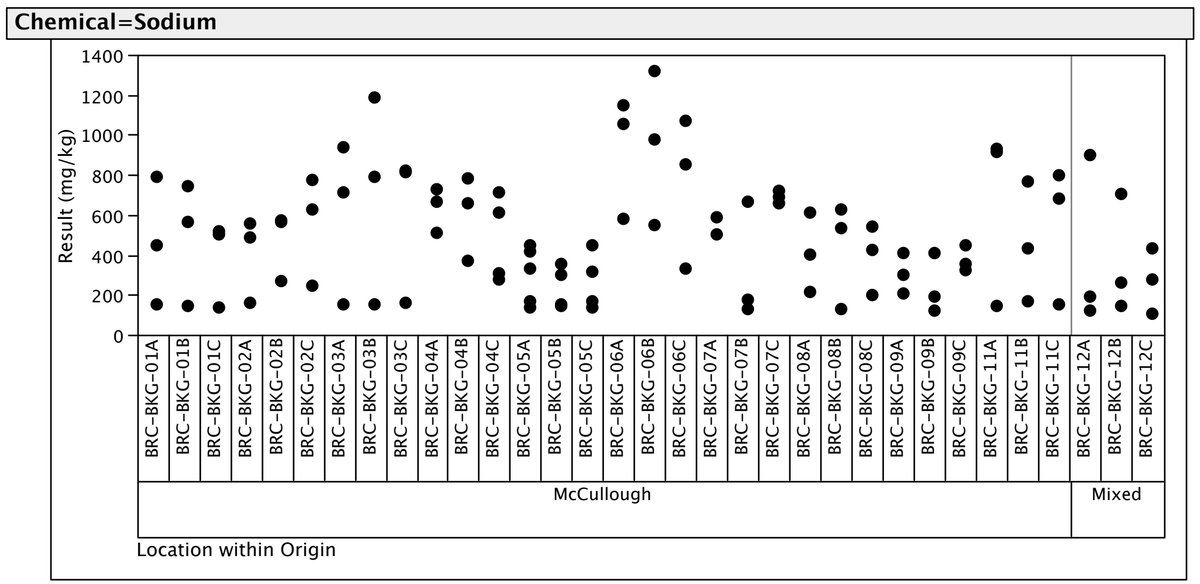
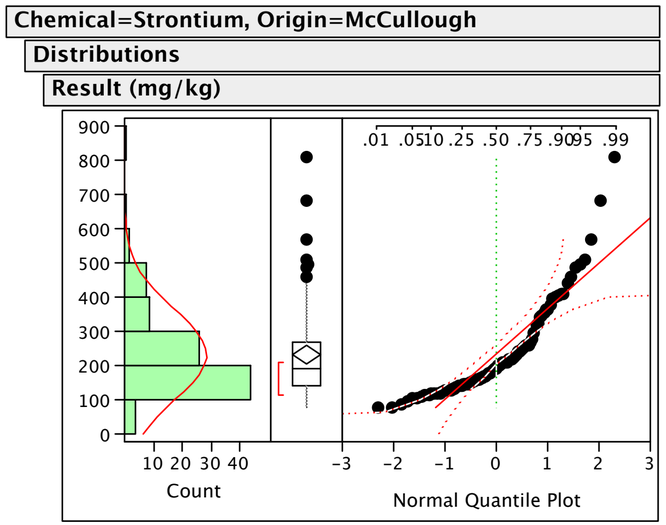
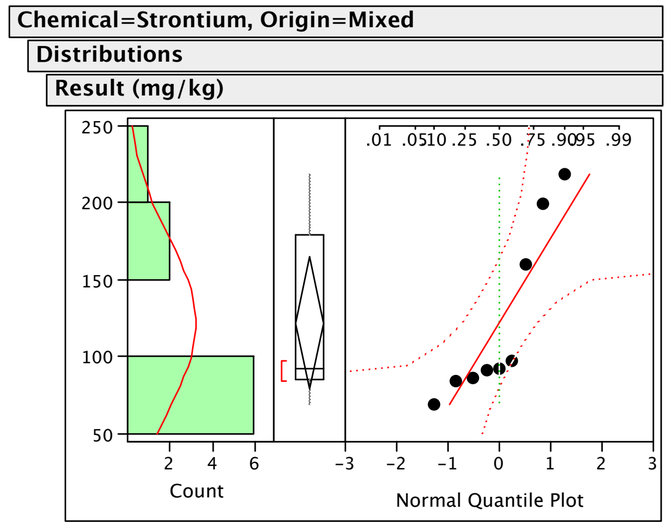
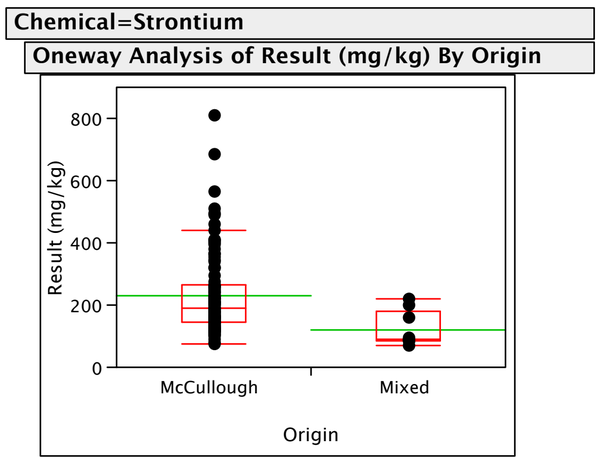


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







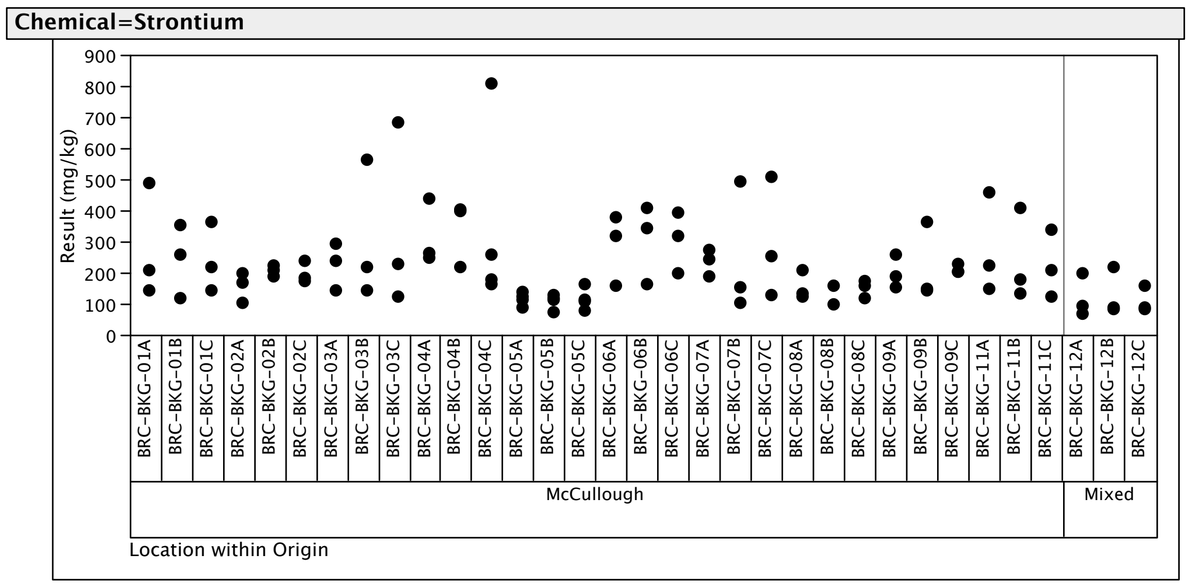
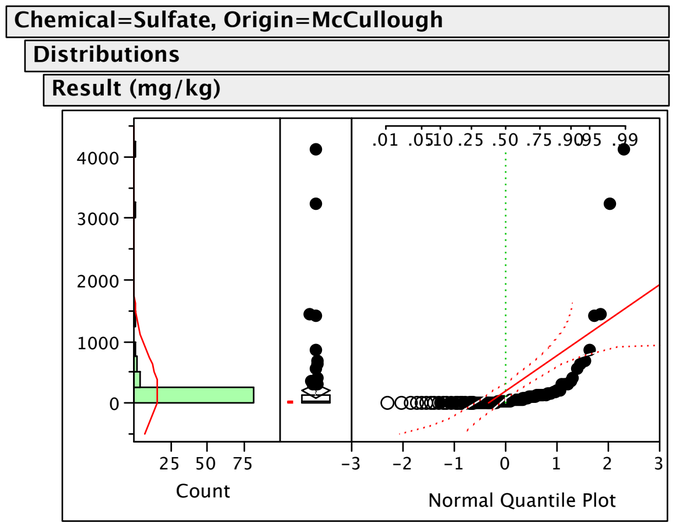
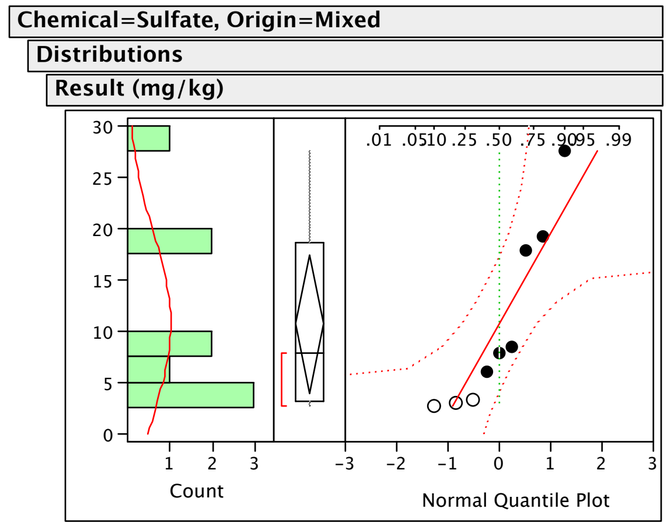
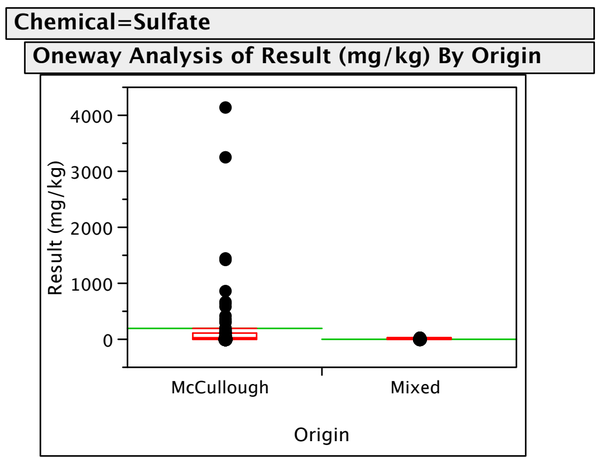


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







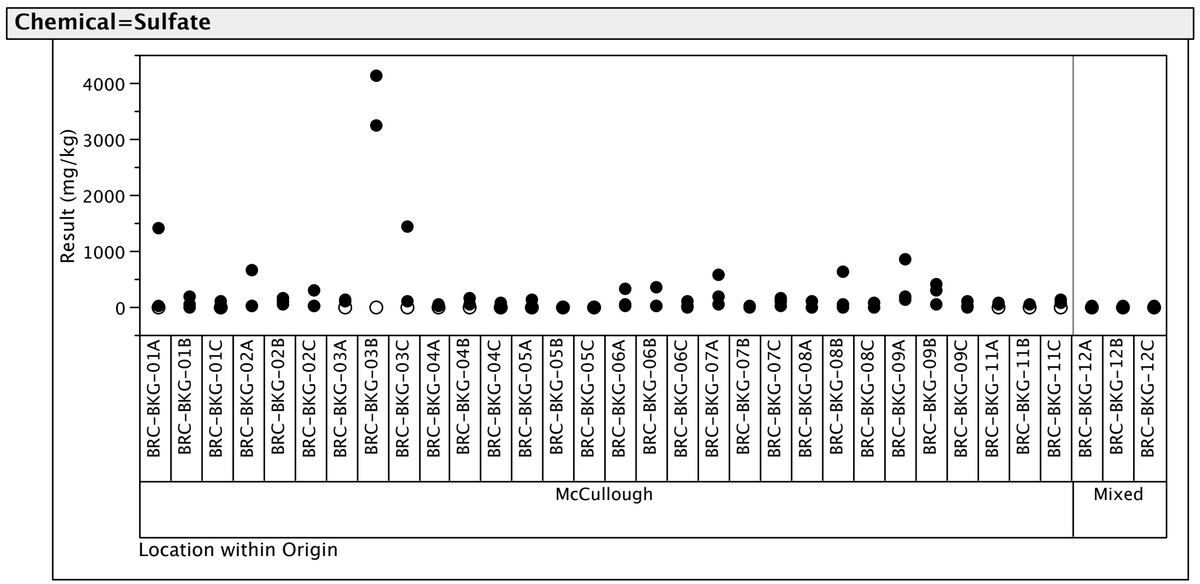
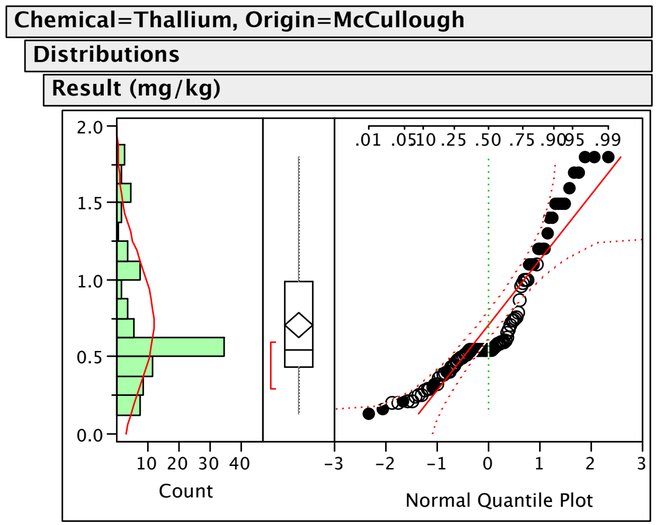
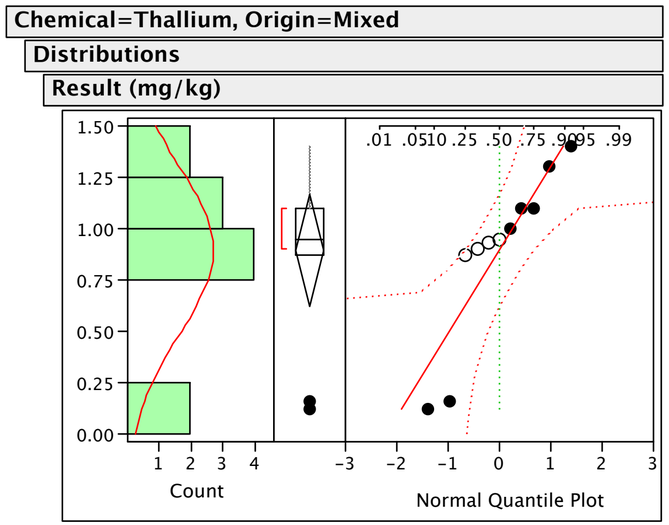
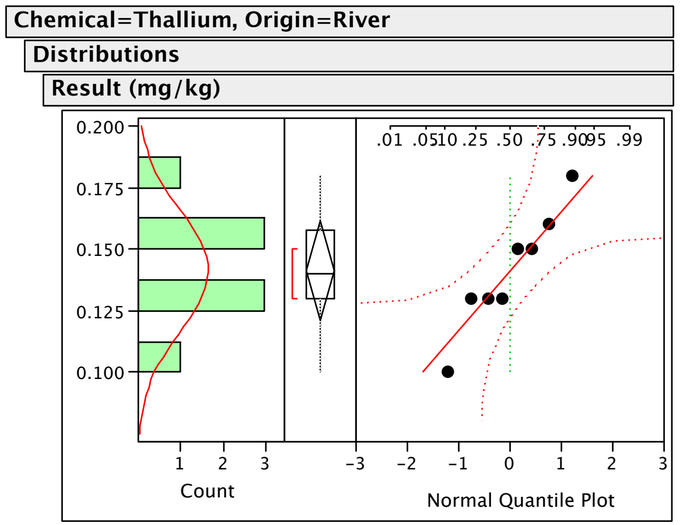


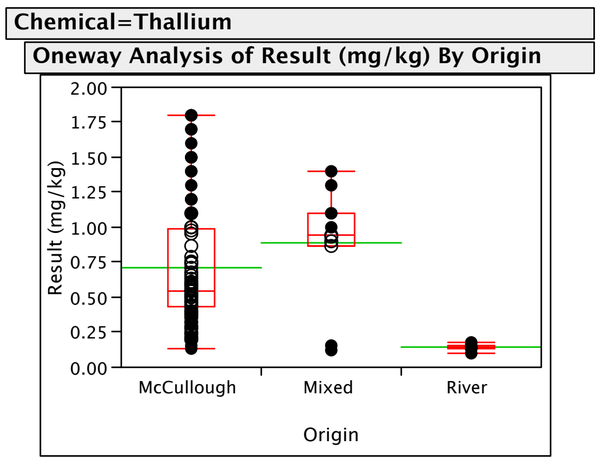
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









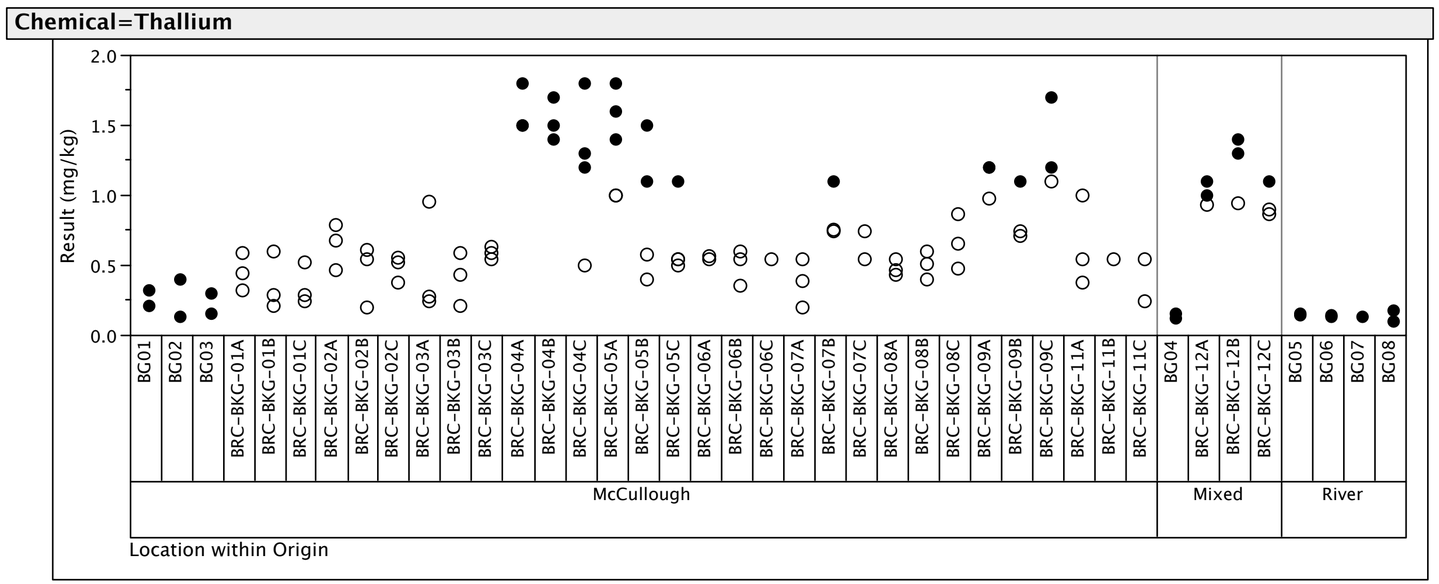
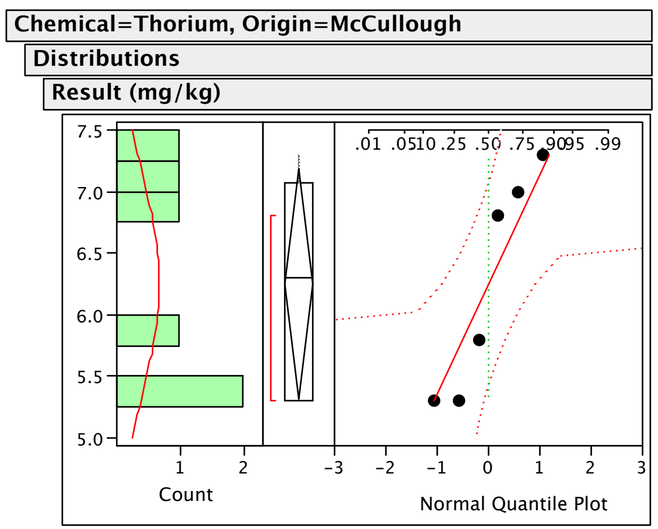
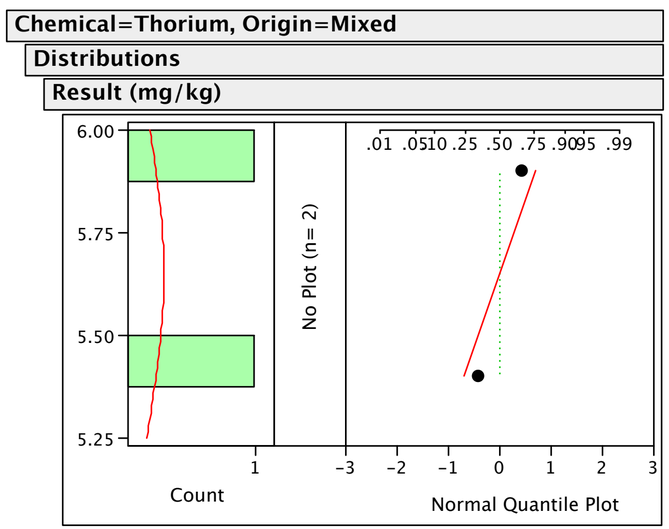
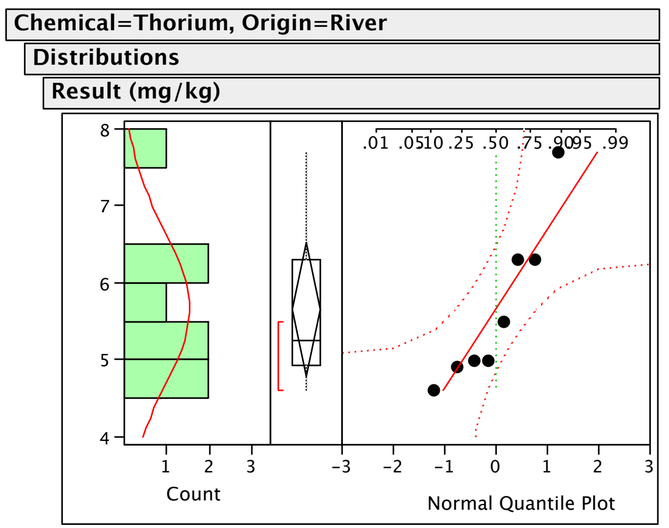


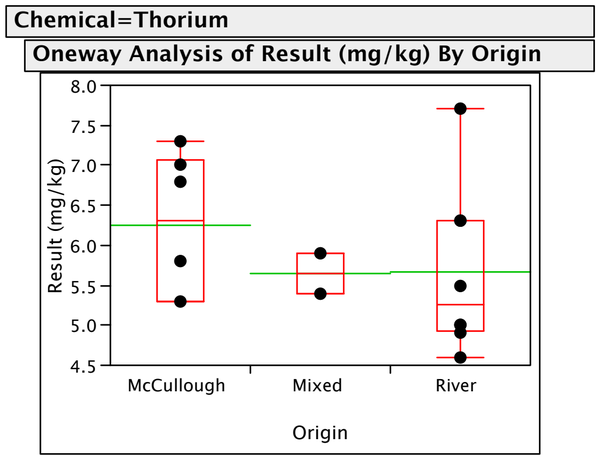
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









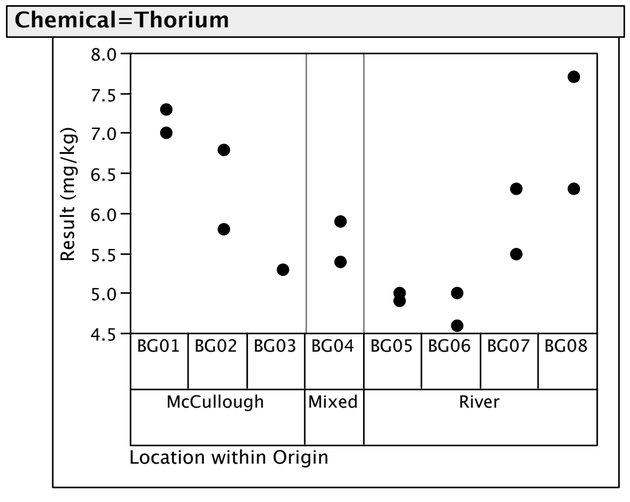
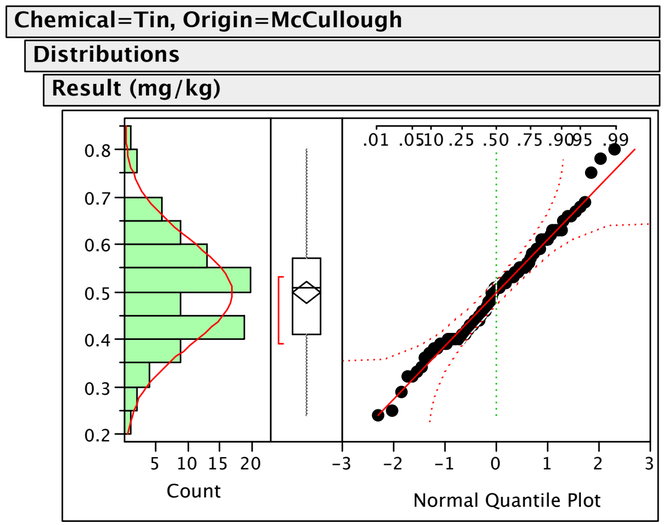
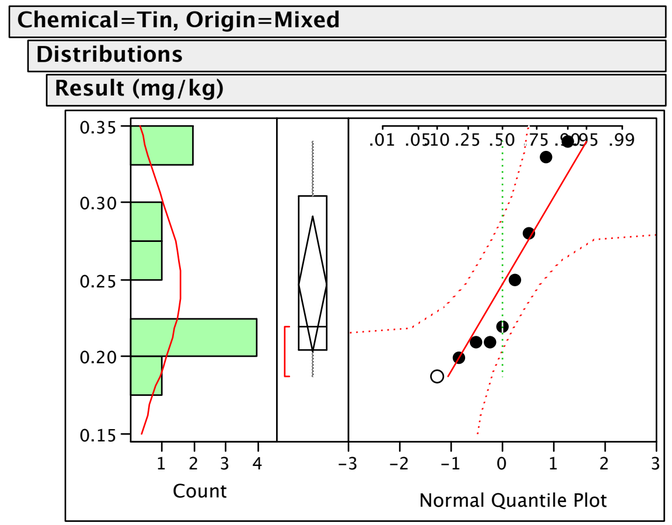
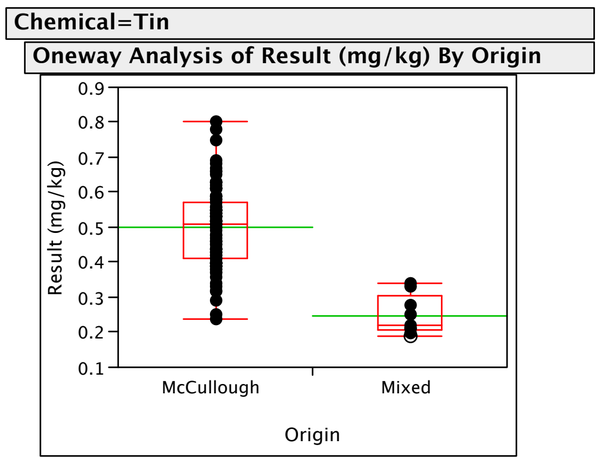


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







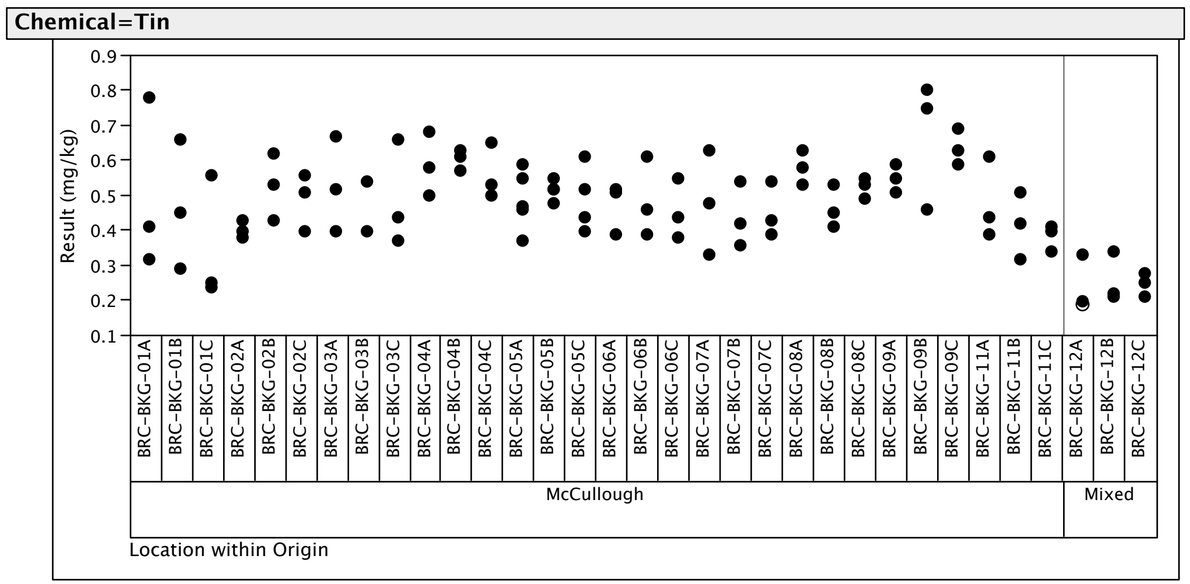
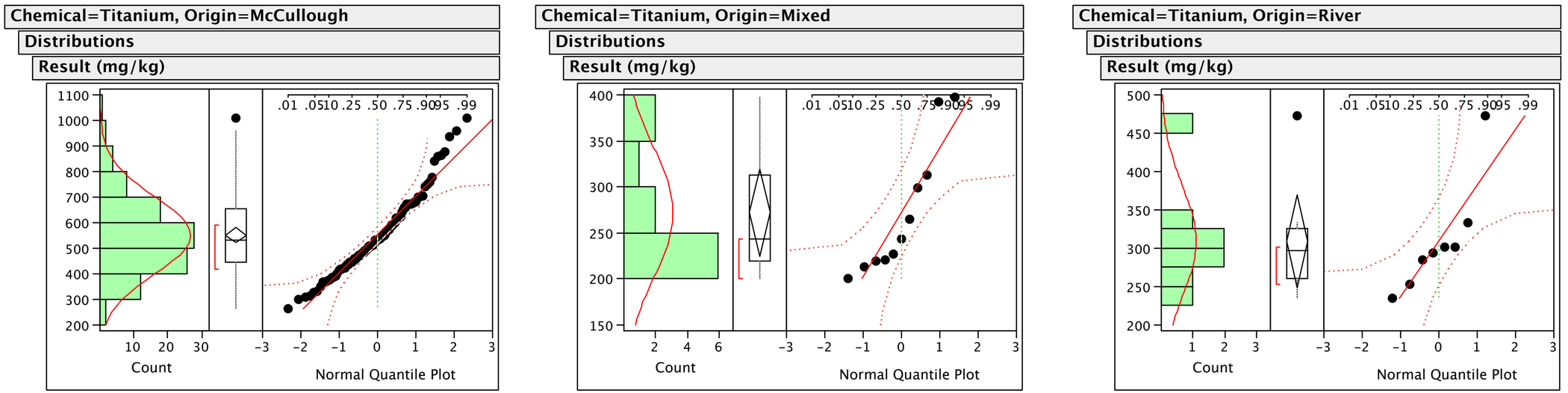
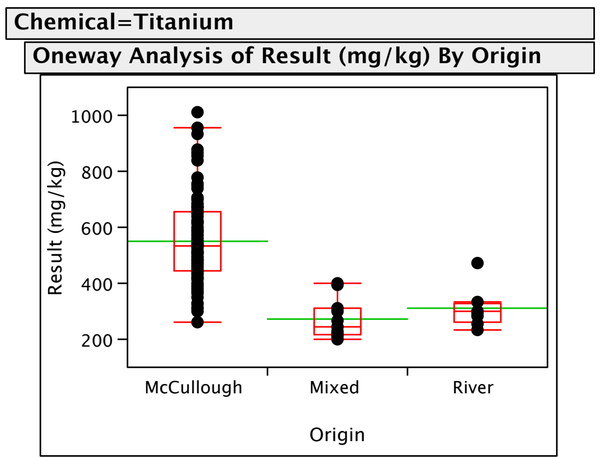


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





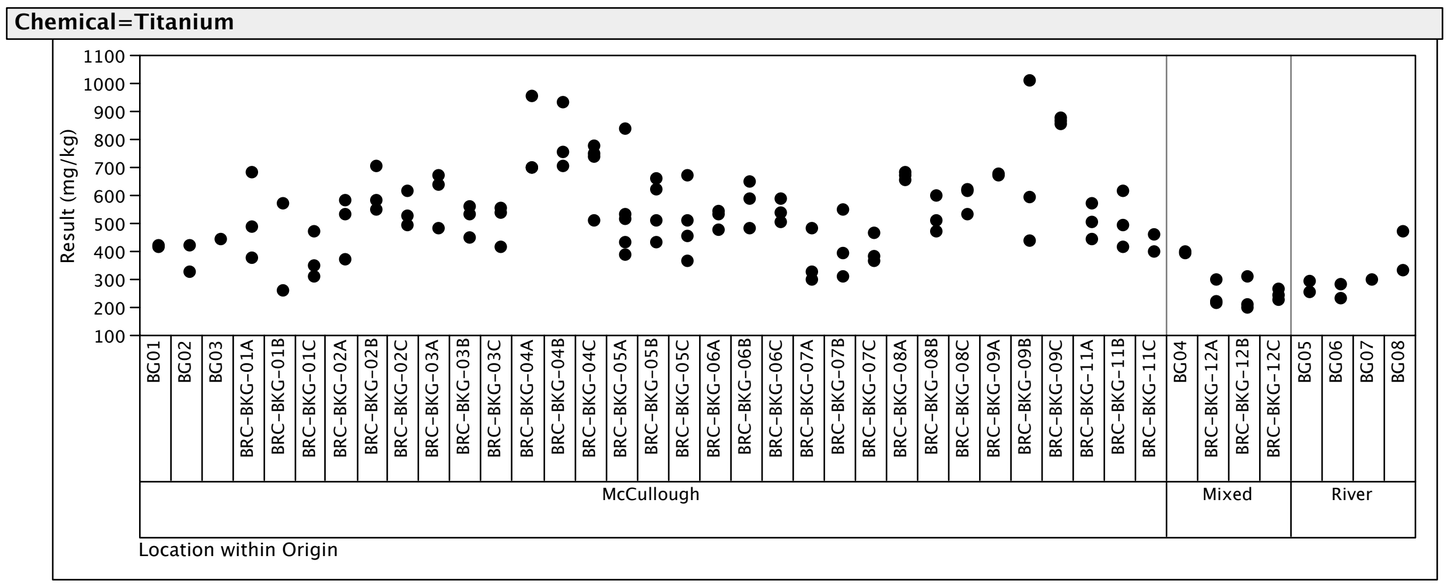
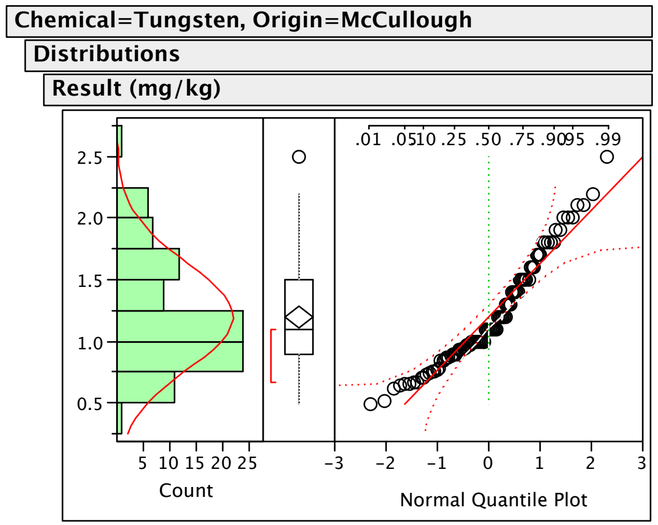
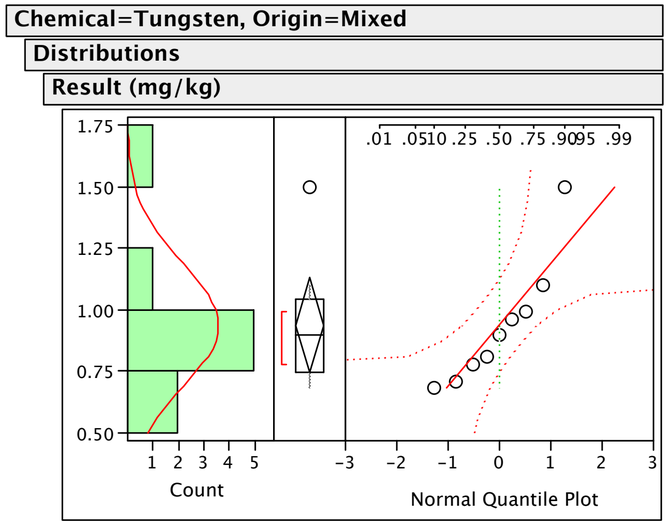
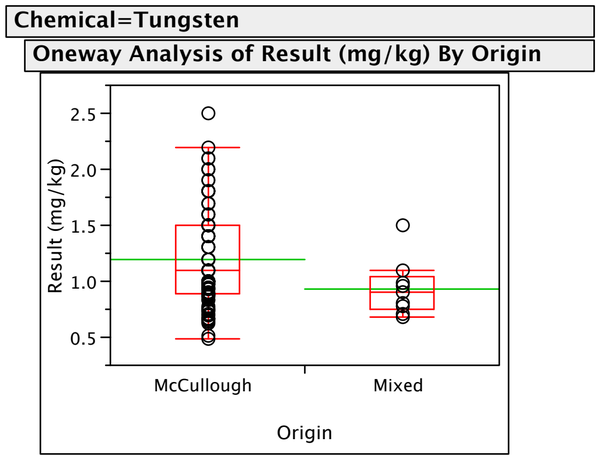


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







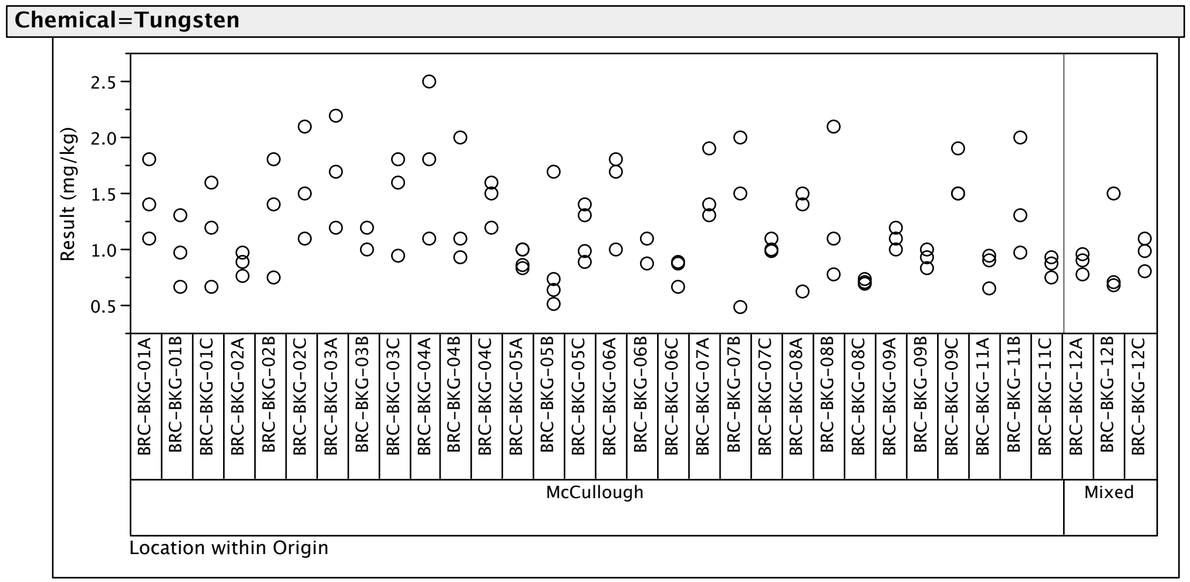
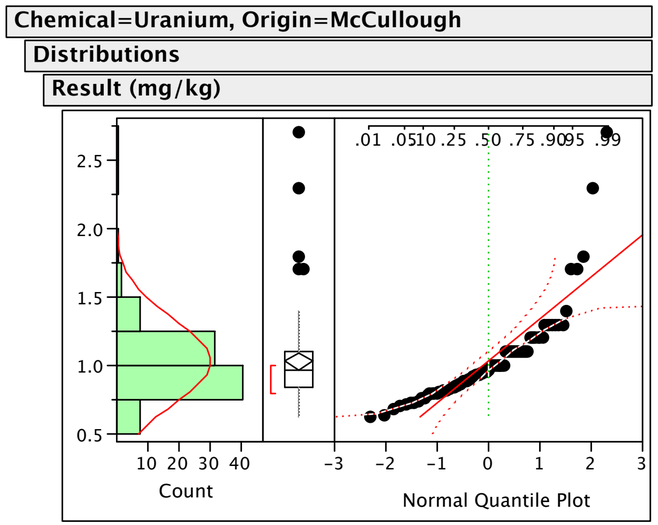
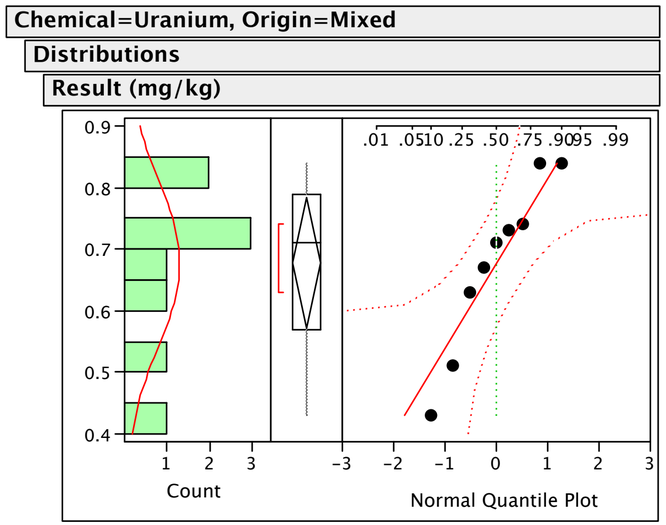
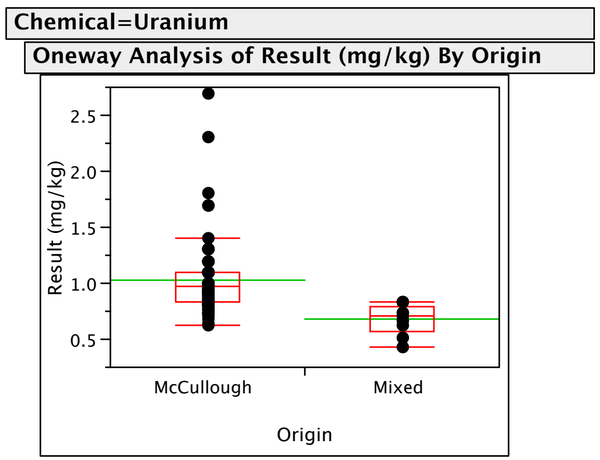


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







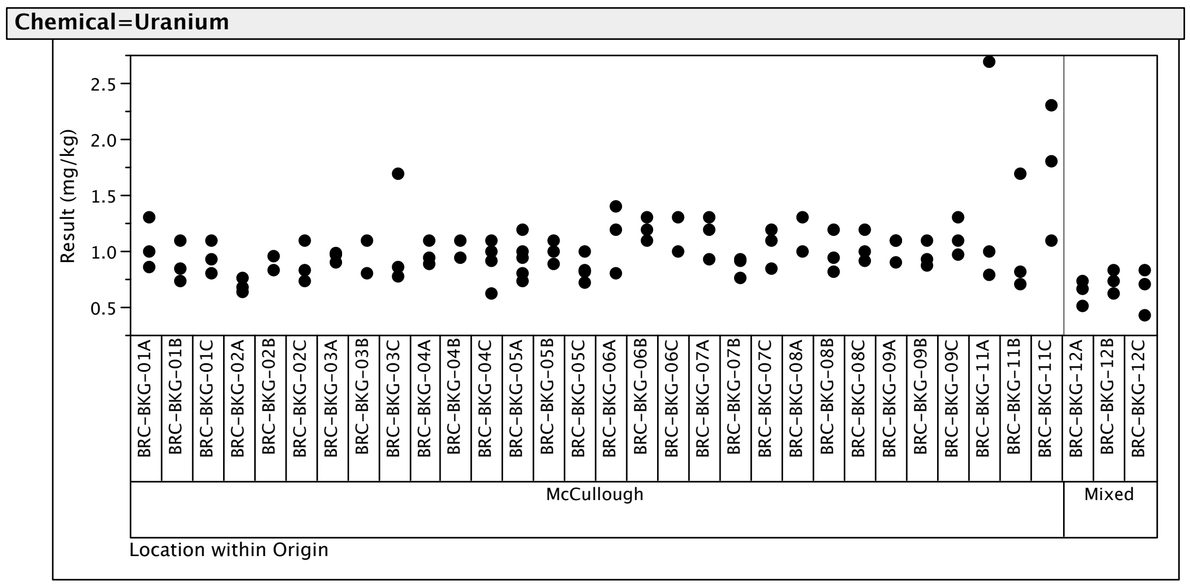
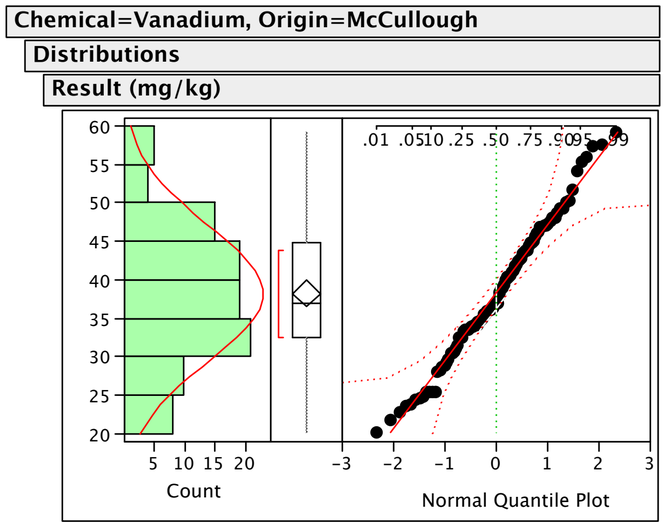
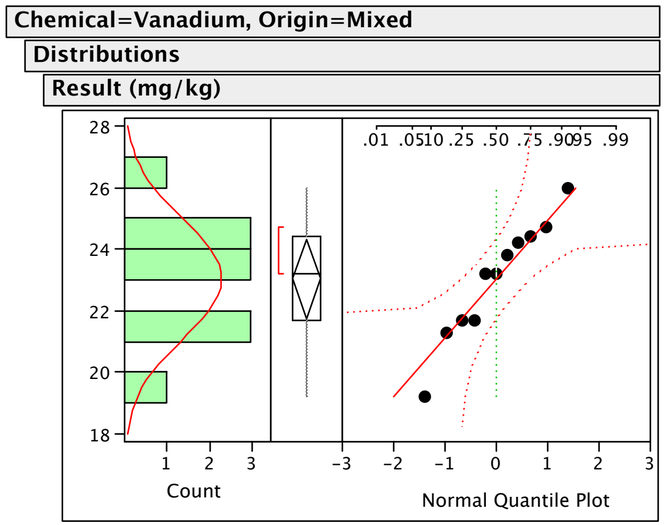
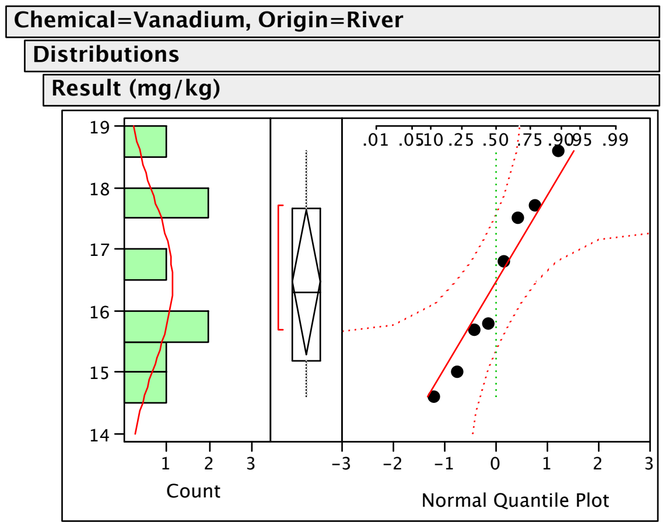


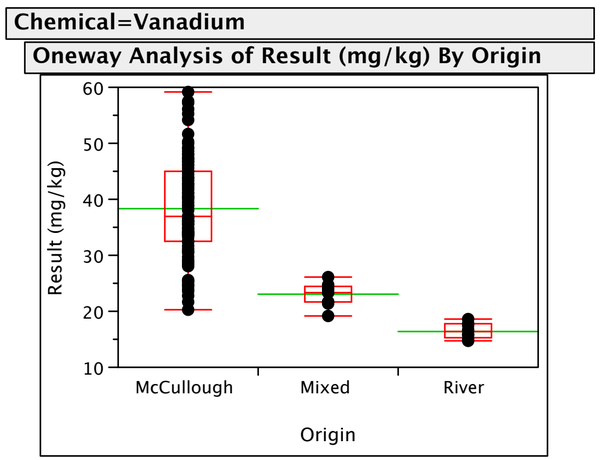
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









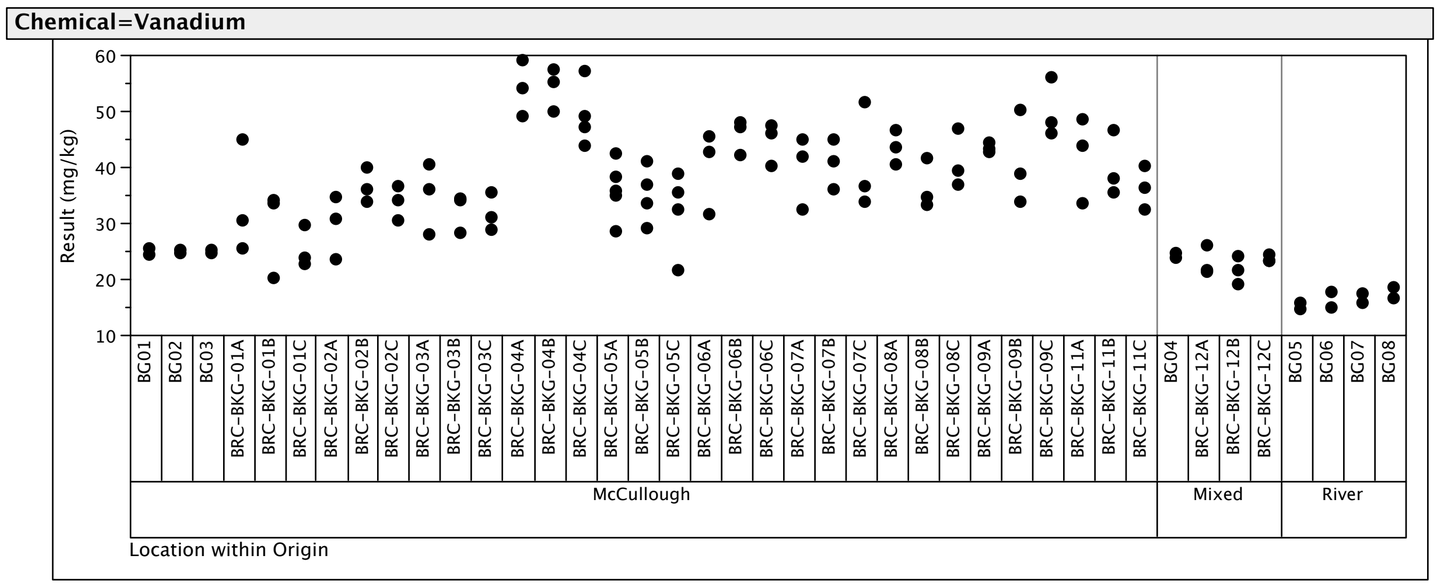
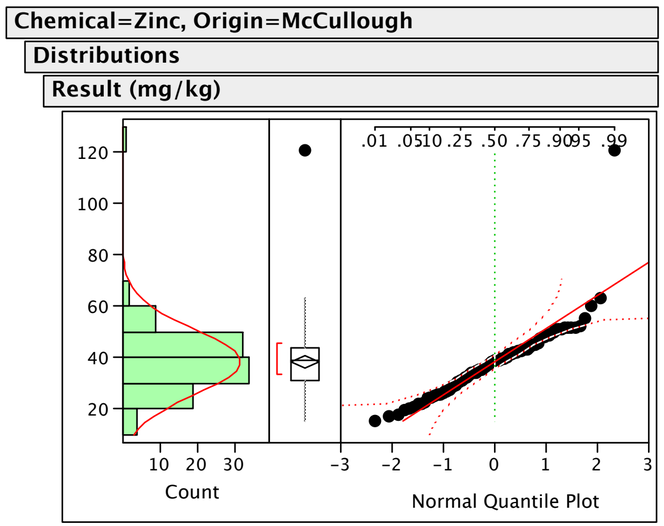
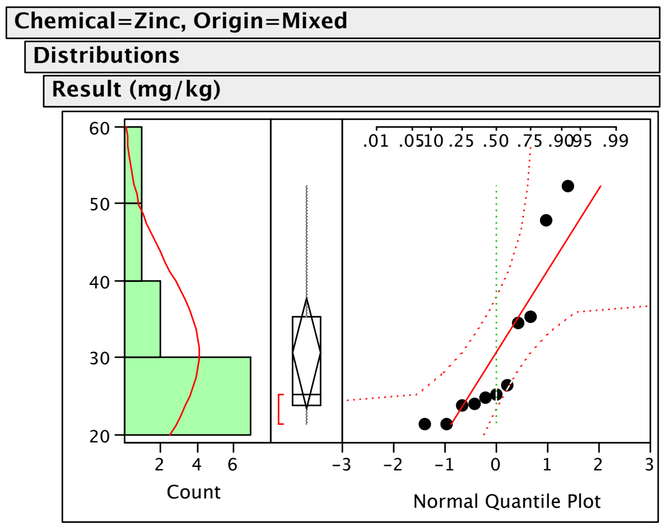
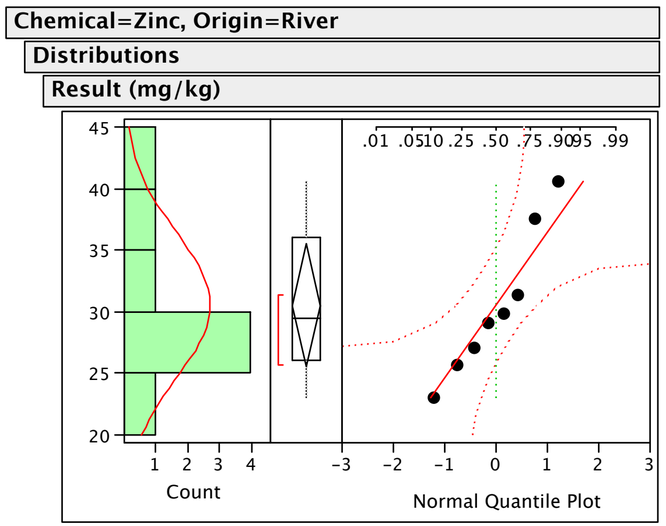


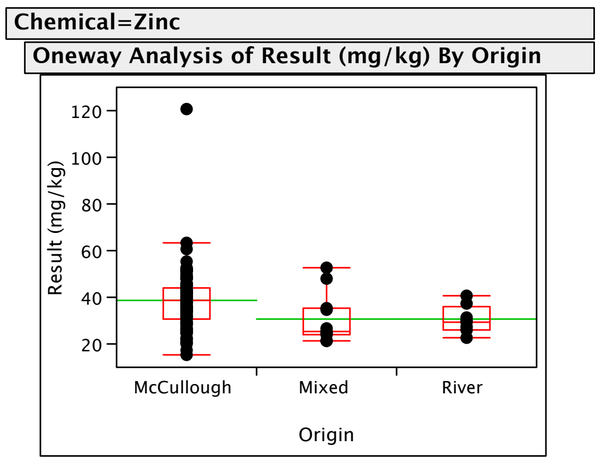
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









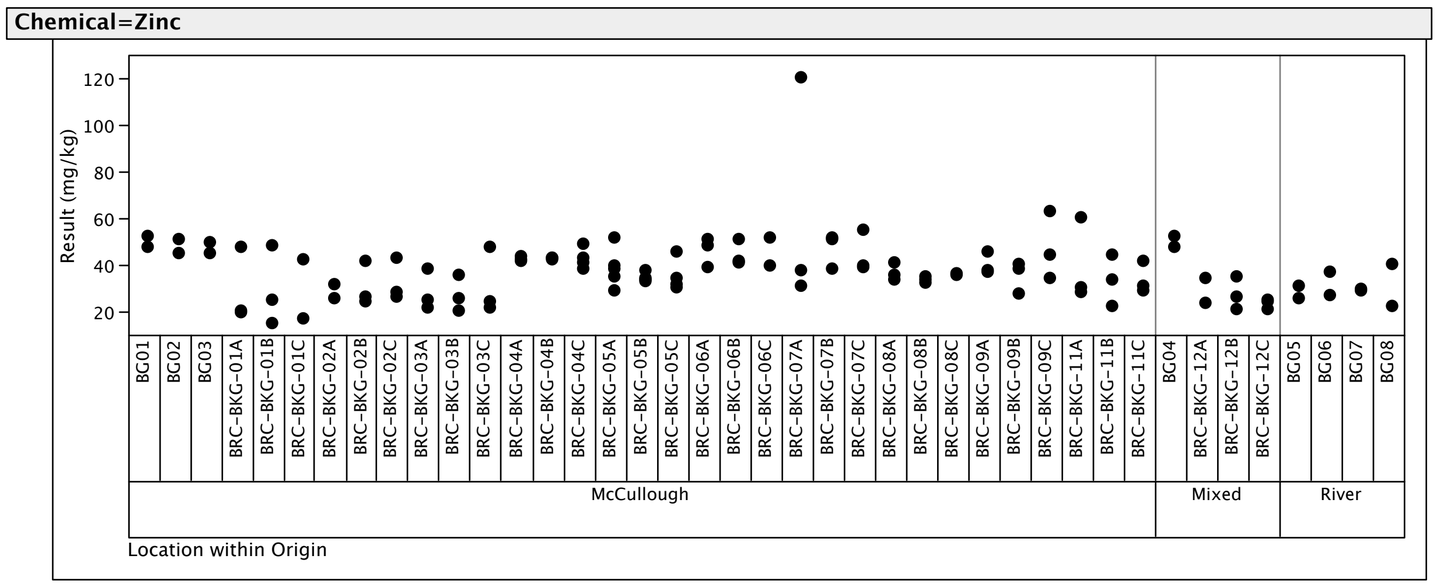
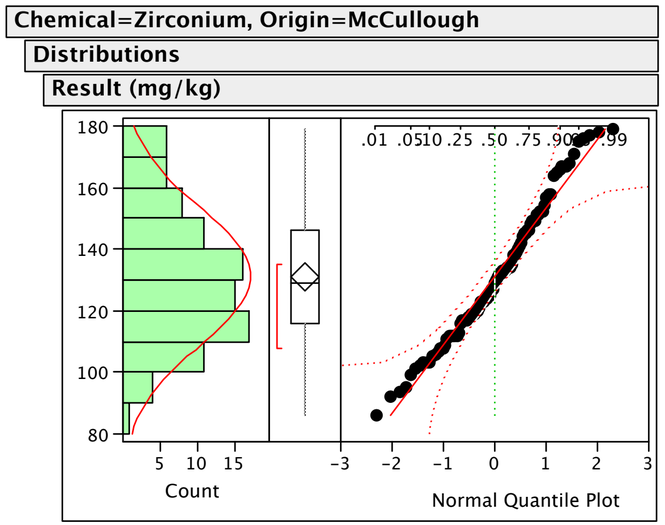
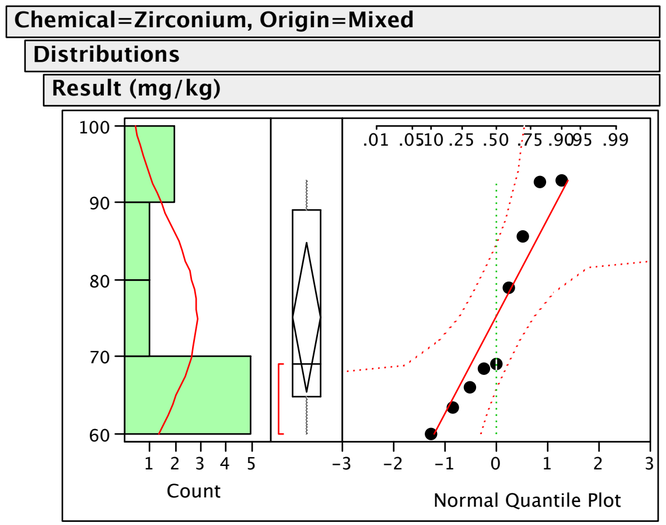
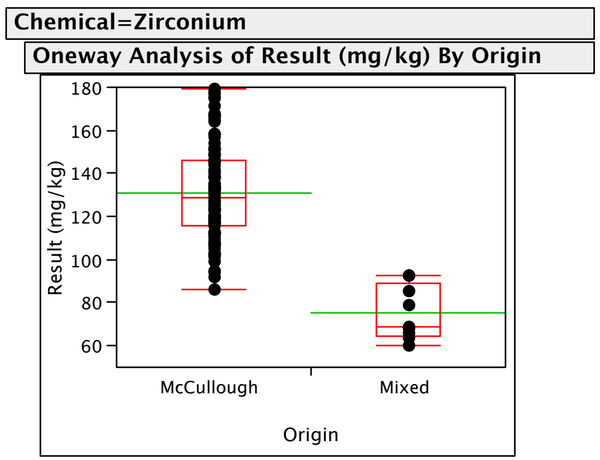


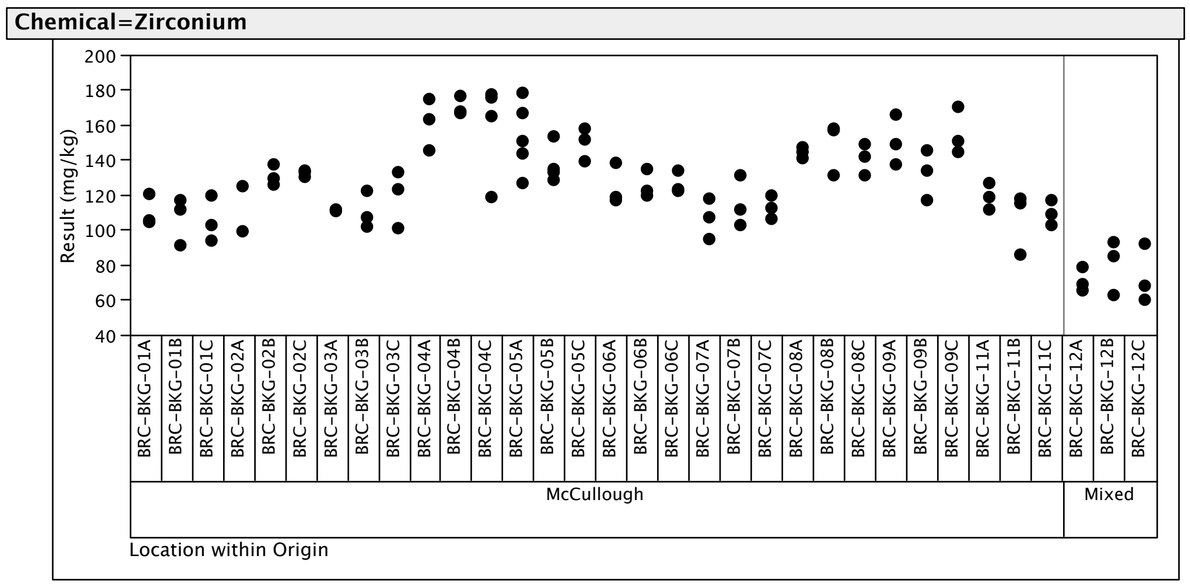
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN



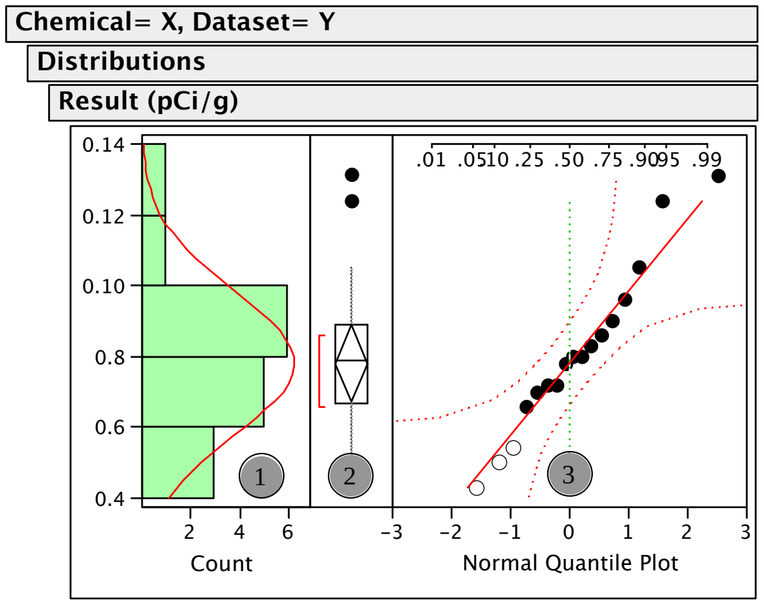


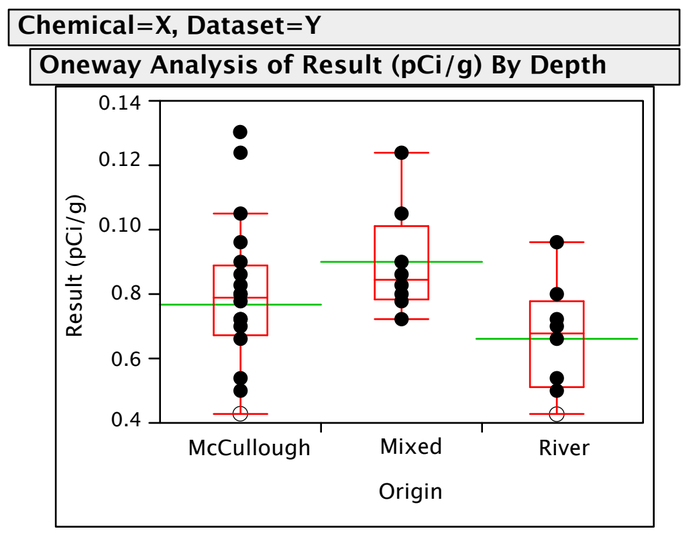




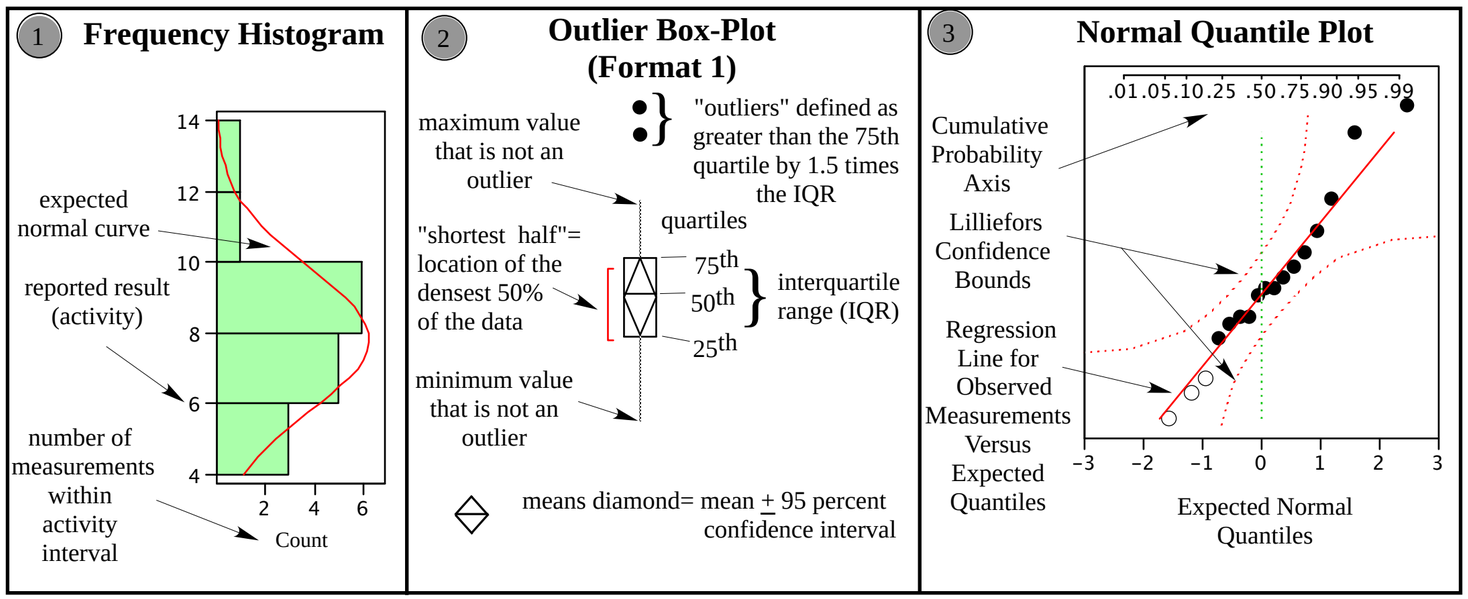
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-6

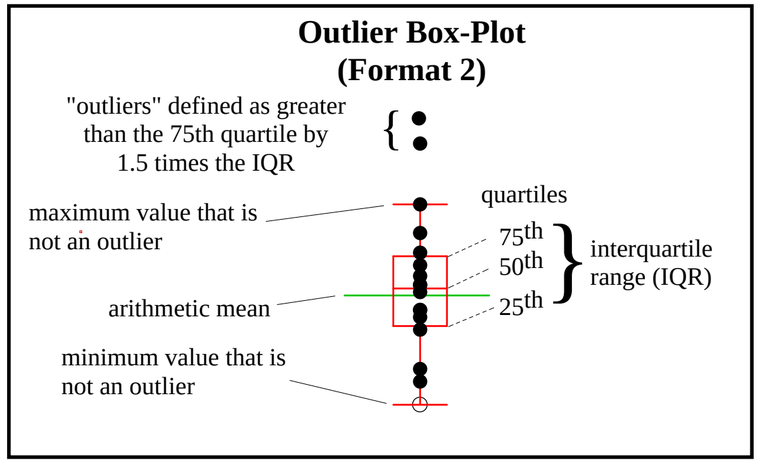
Example Figures From Appendix

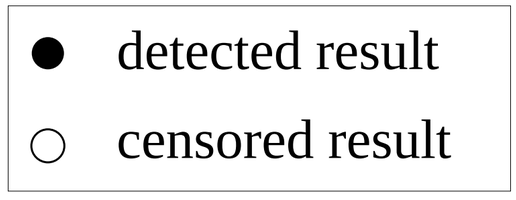


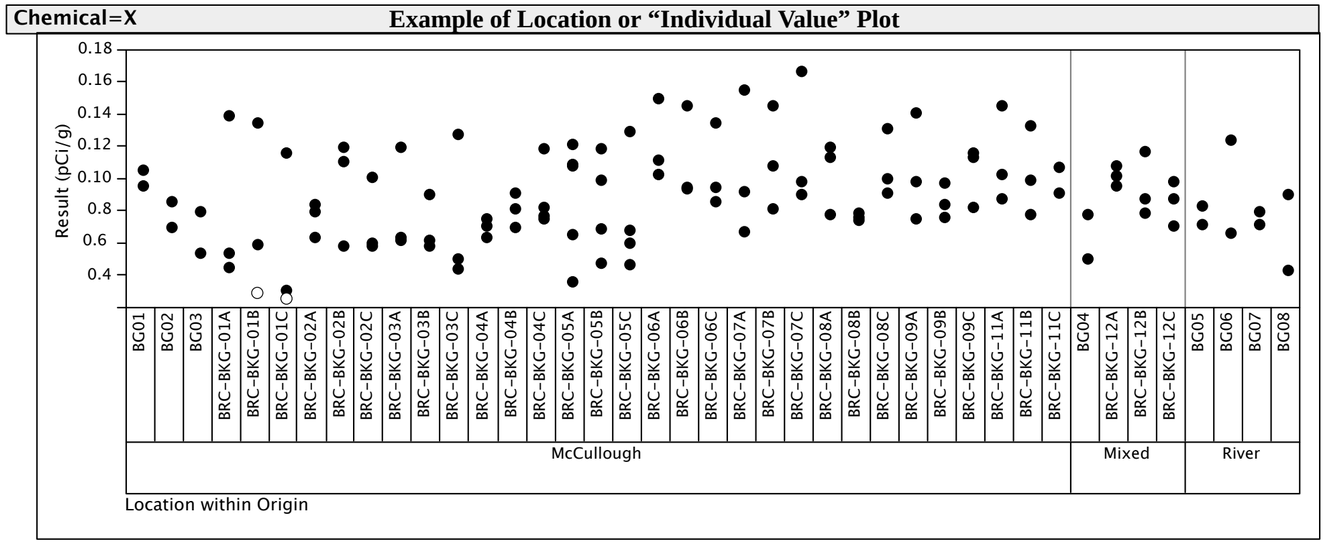


Keys to Individual Figure Panels





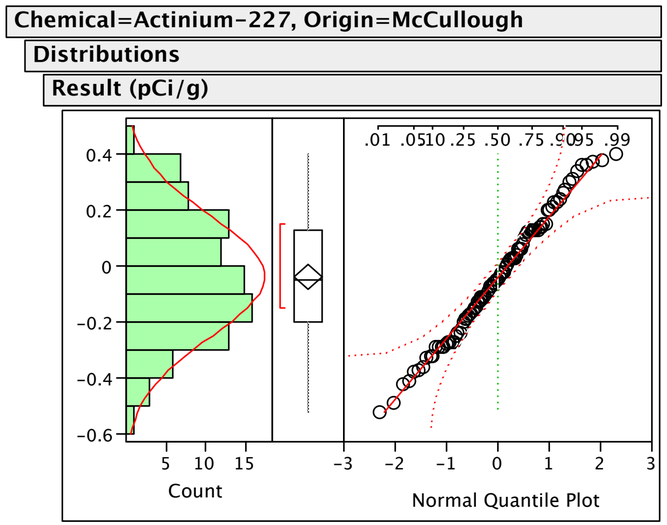


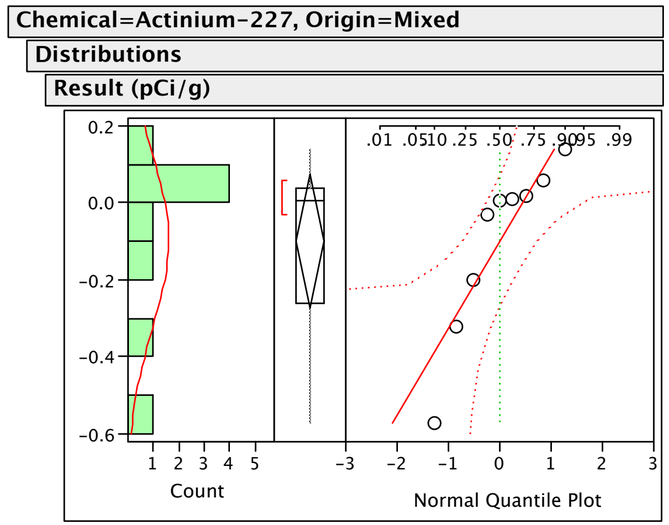


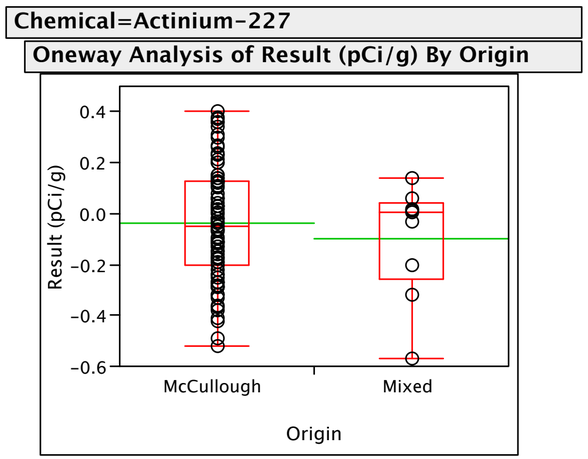
Results are Plottted for Individual Locations and Grouped by Soil Origin

FIGURE G-6

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







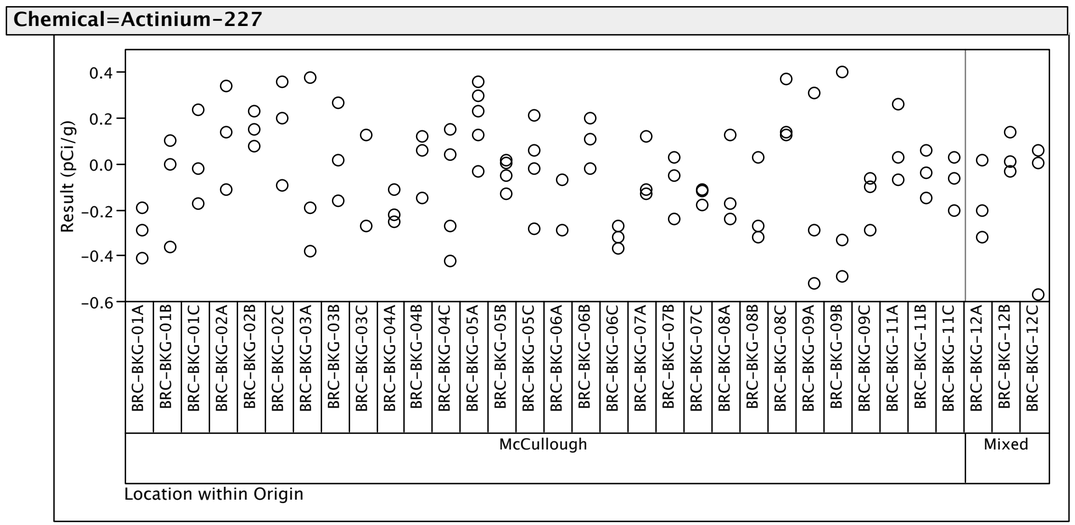
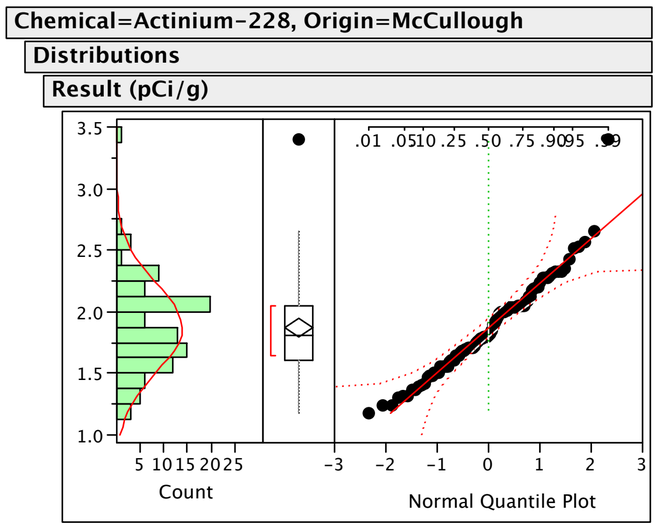
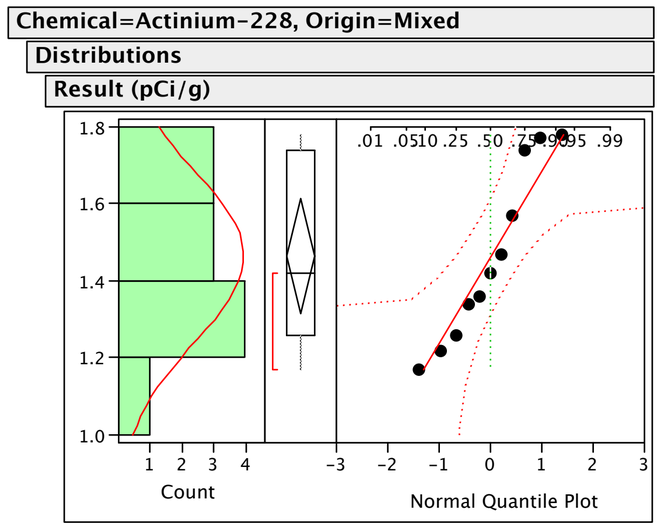
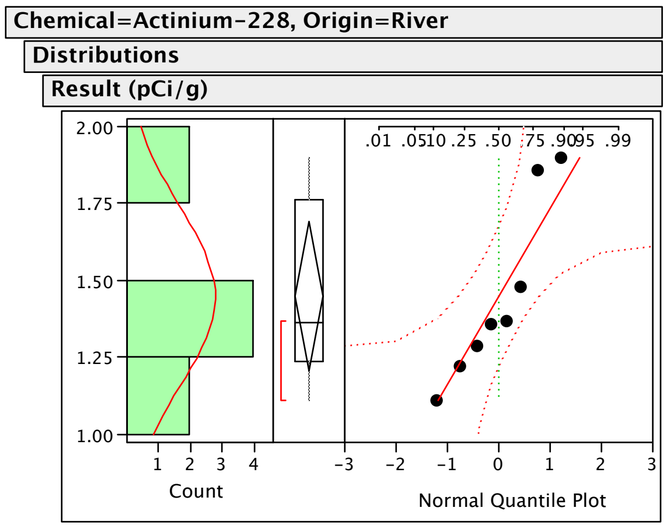


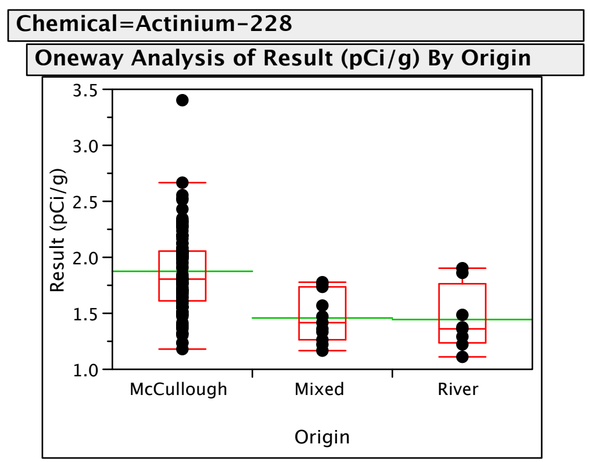
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









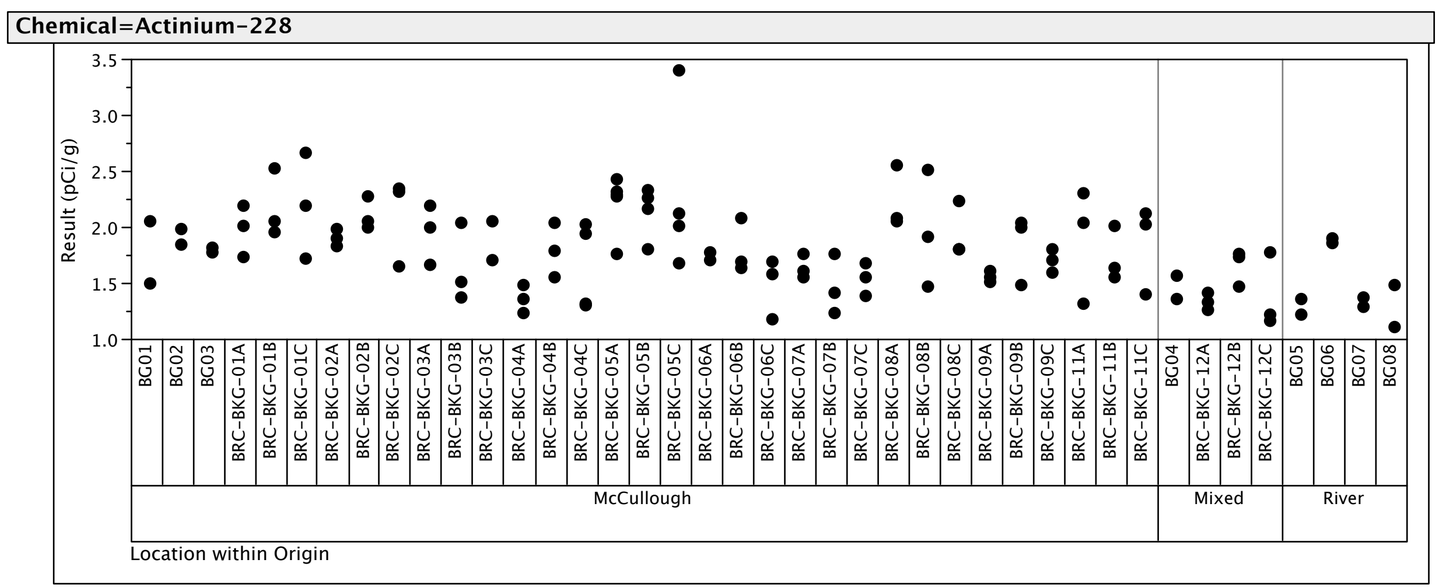
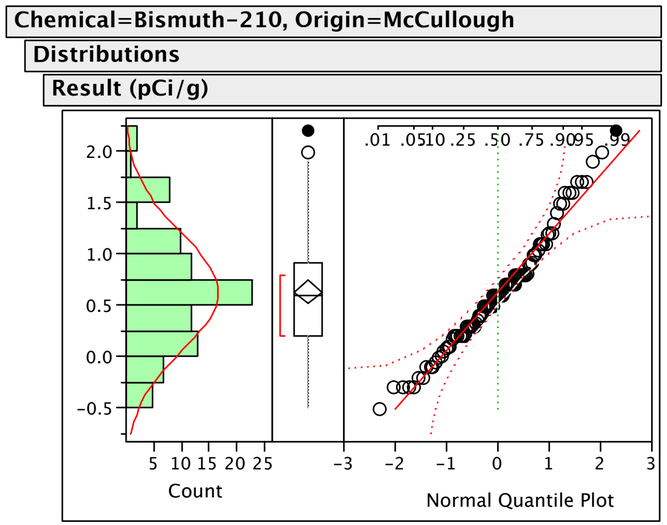
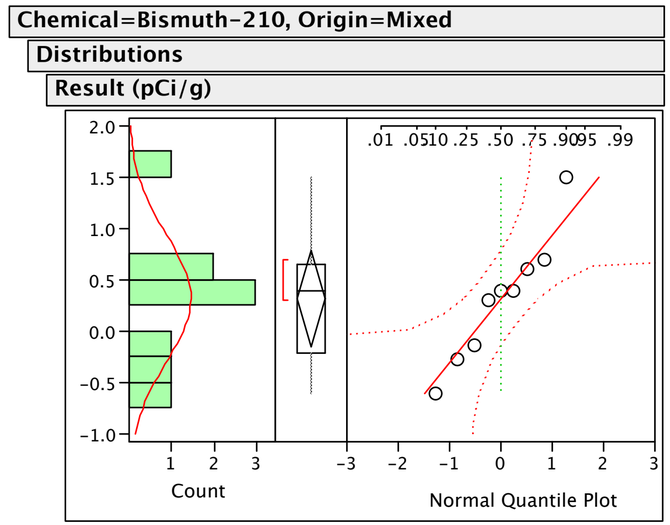
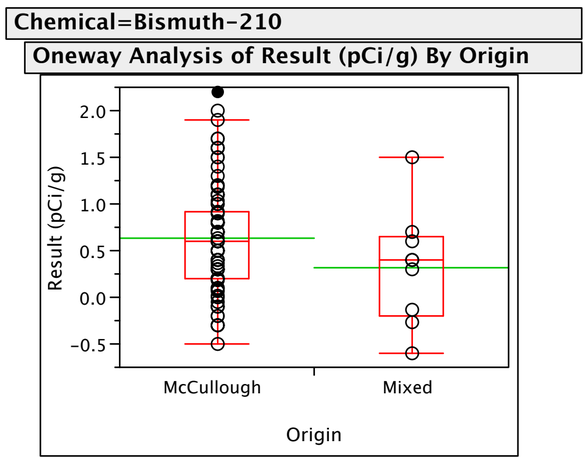


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







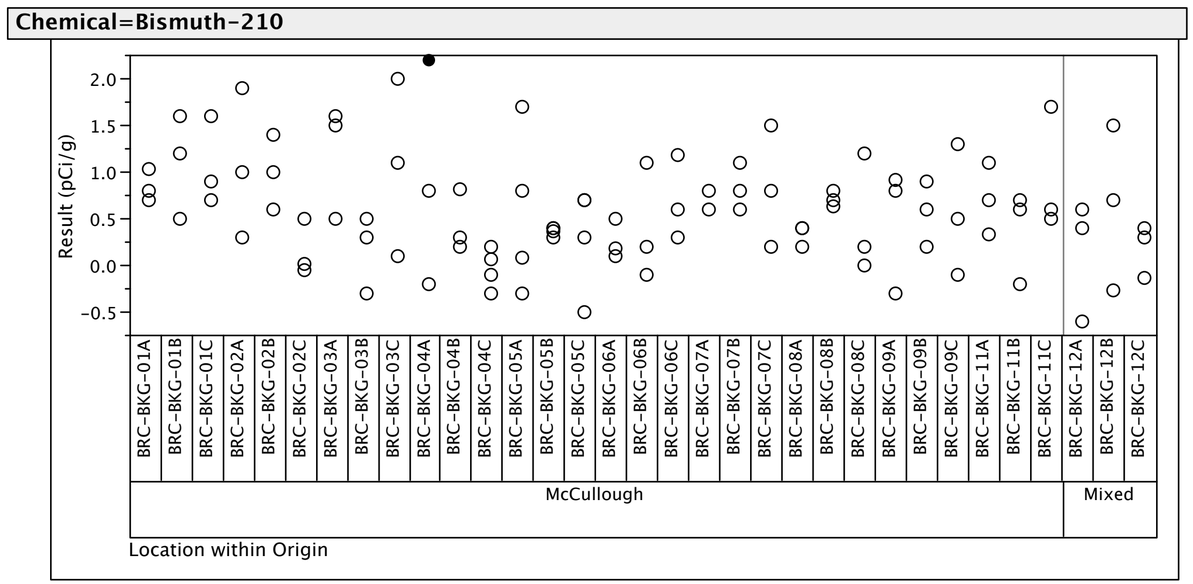
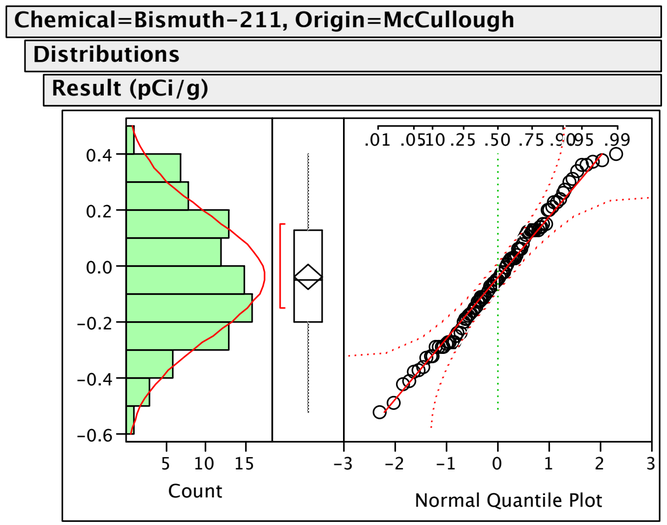
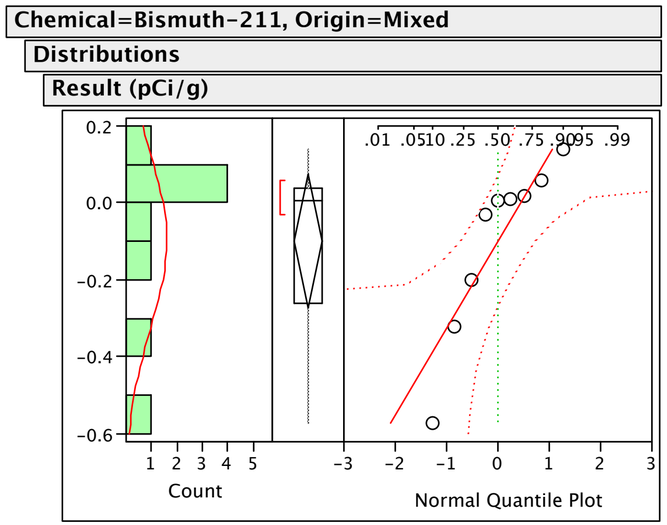
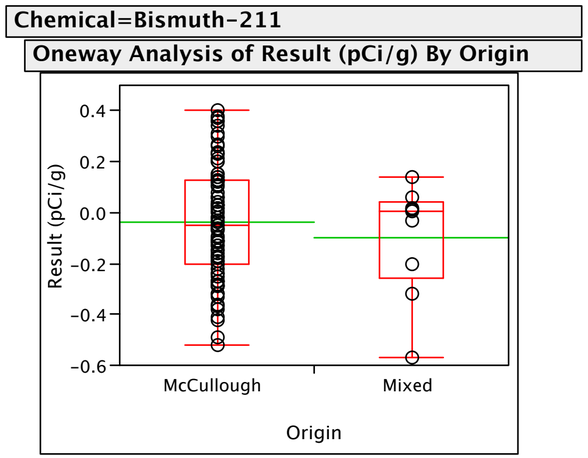


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







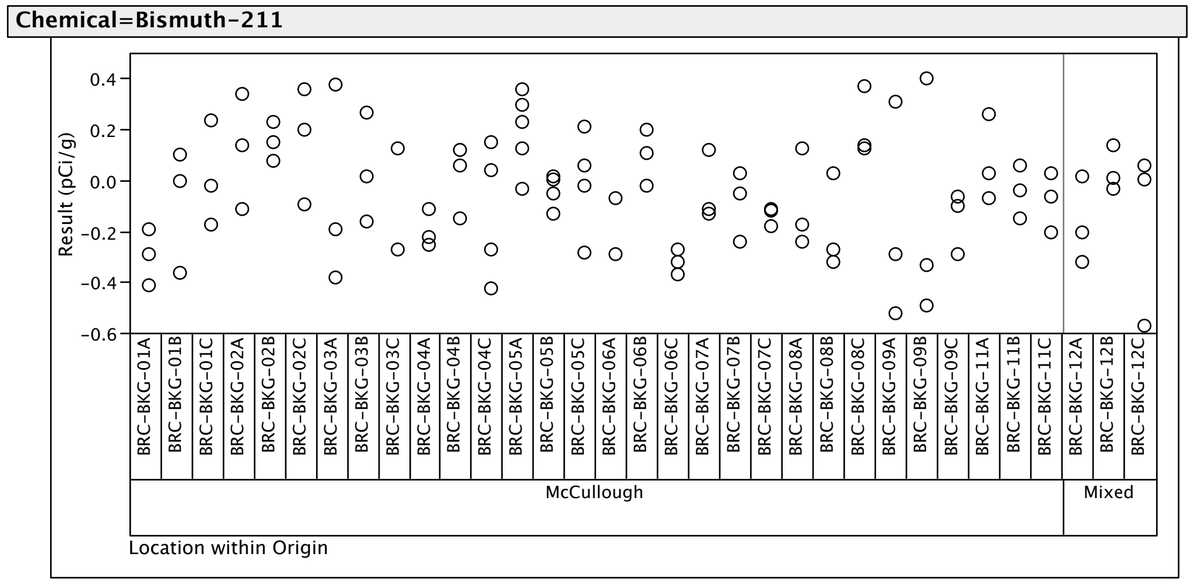
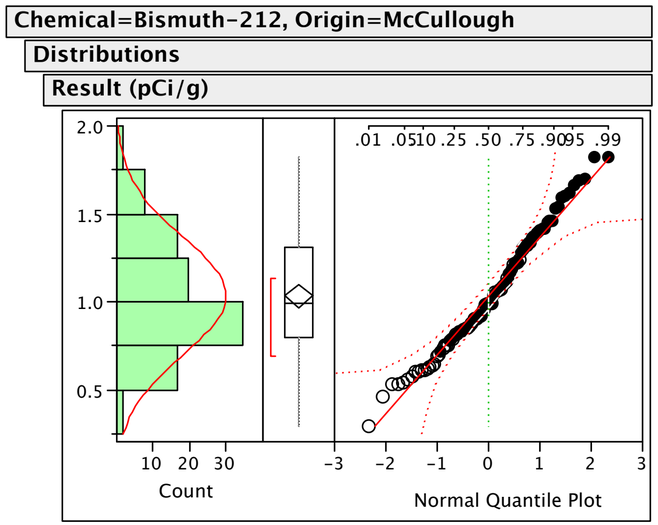
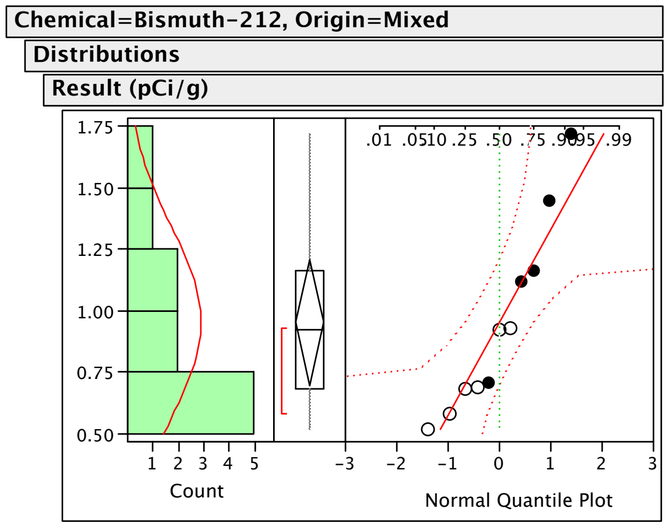
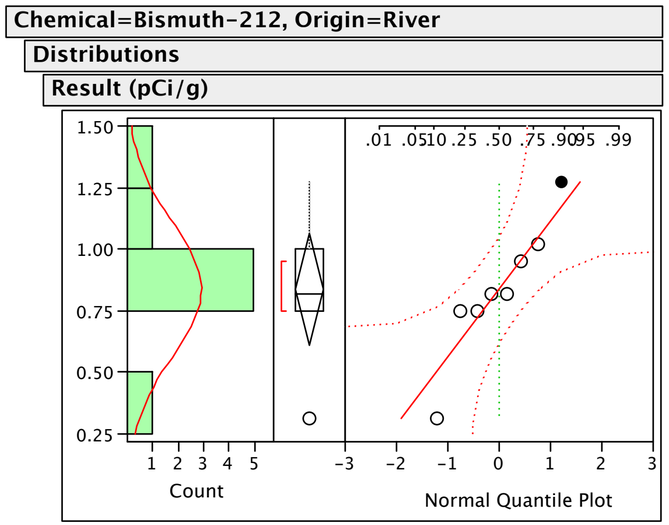


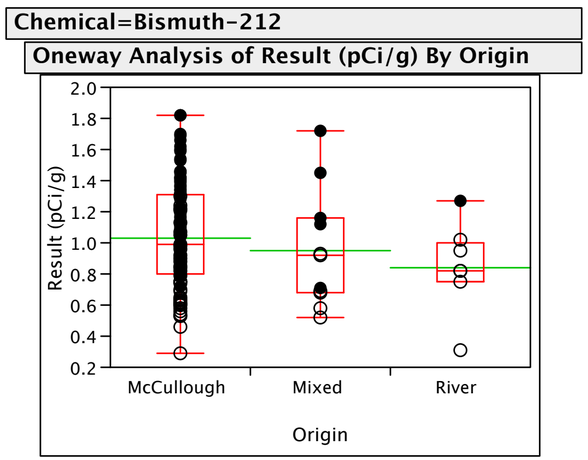
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









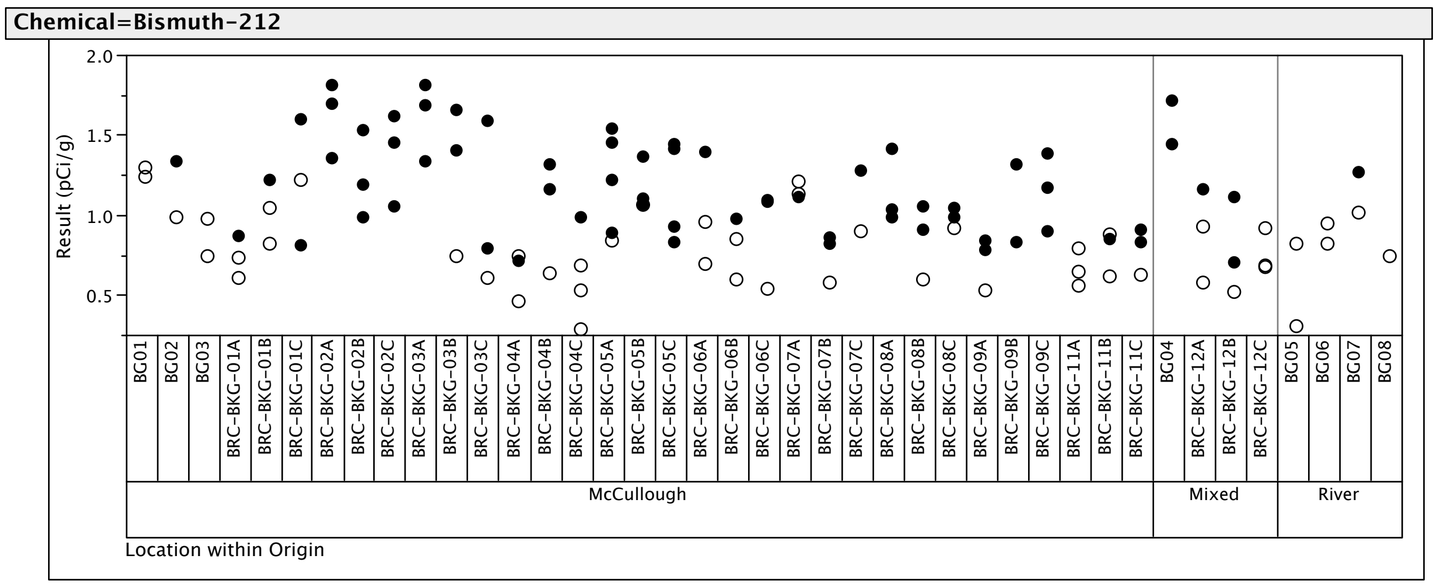
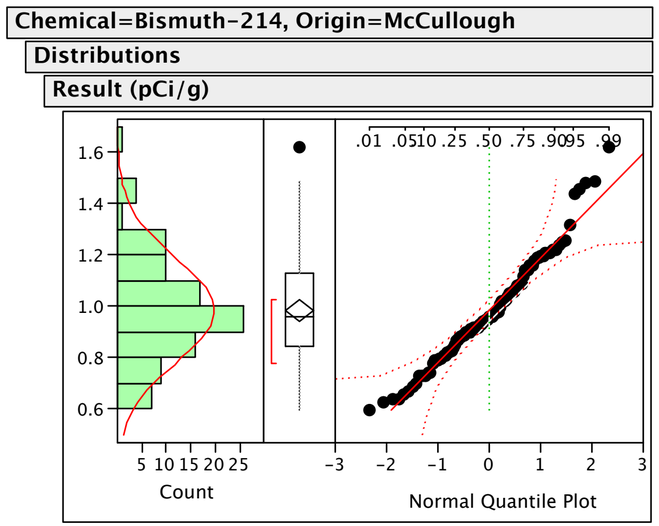
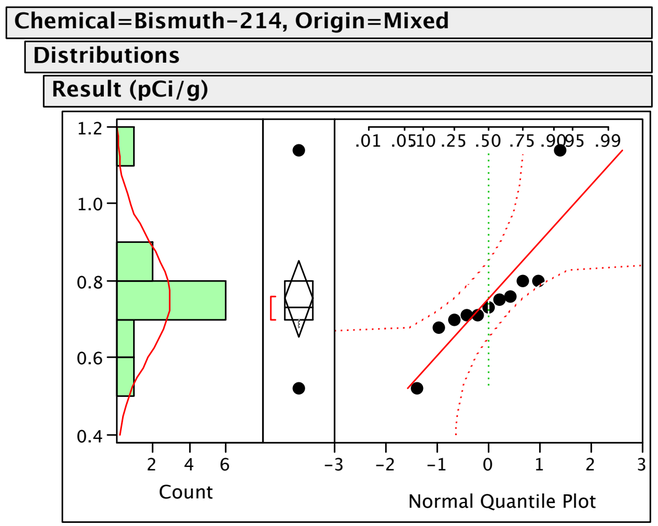
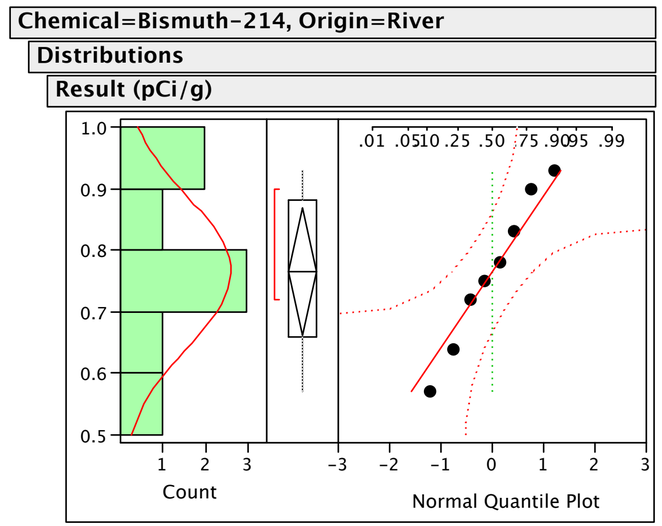


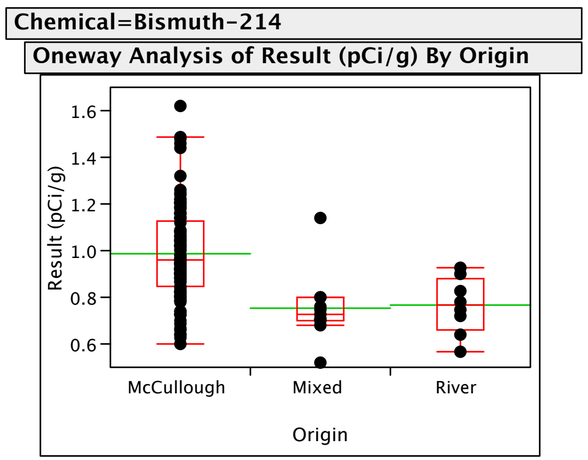
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









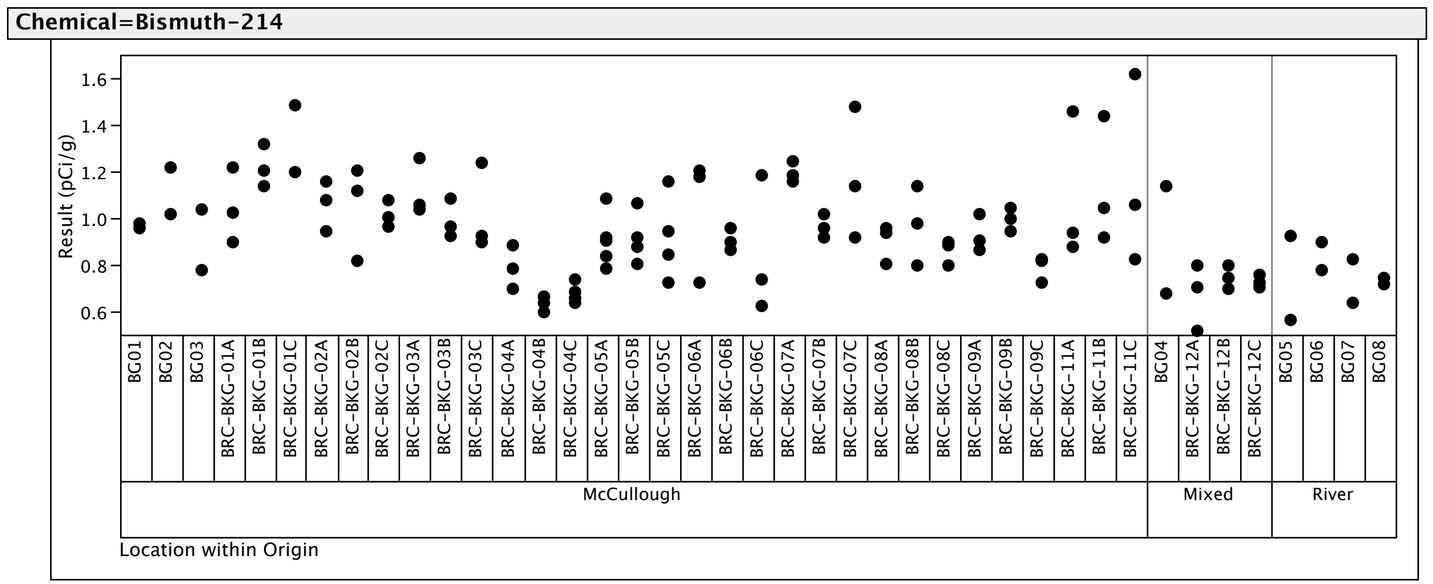
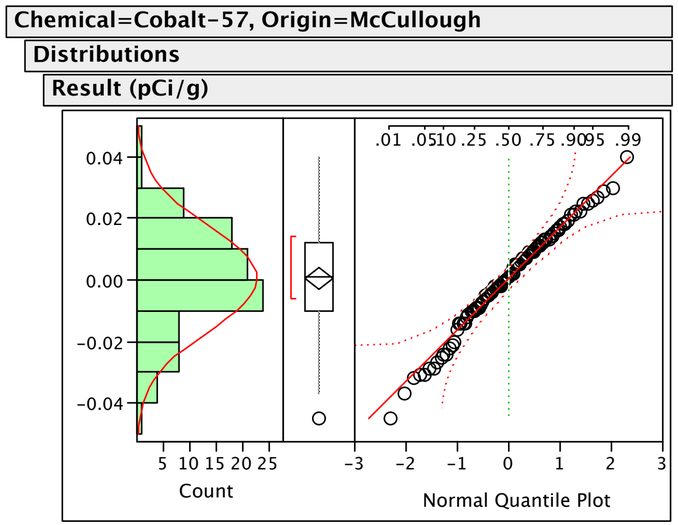
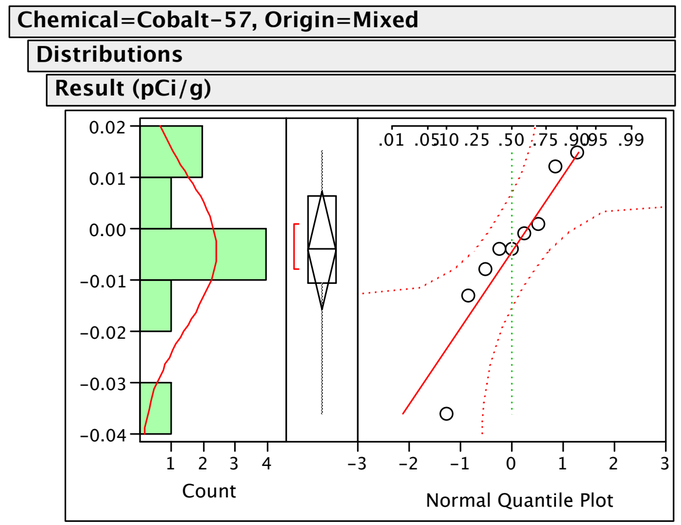
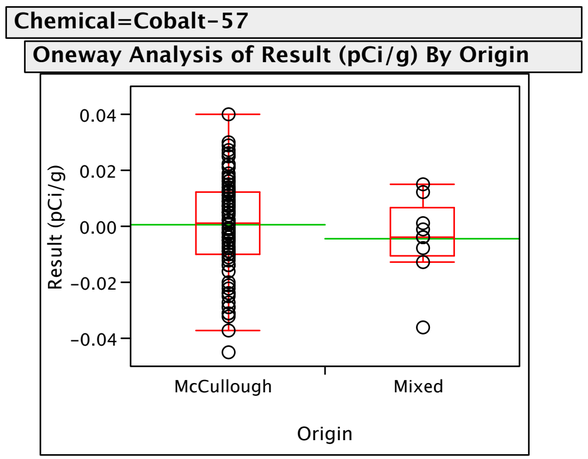


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







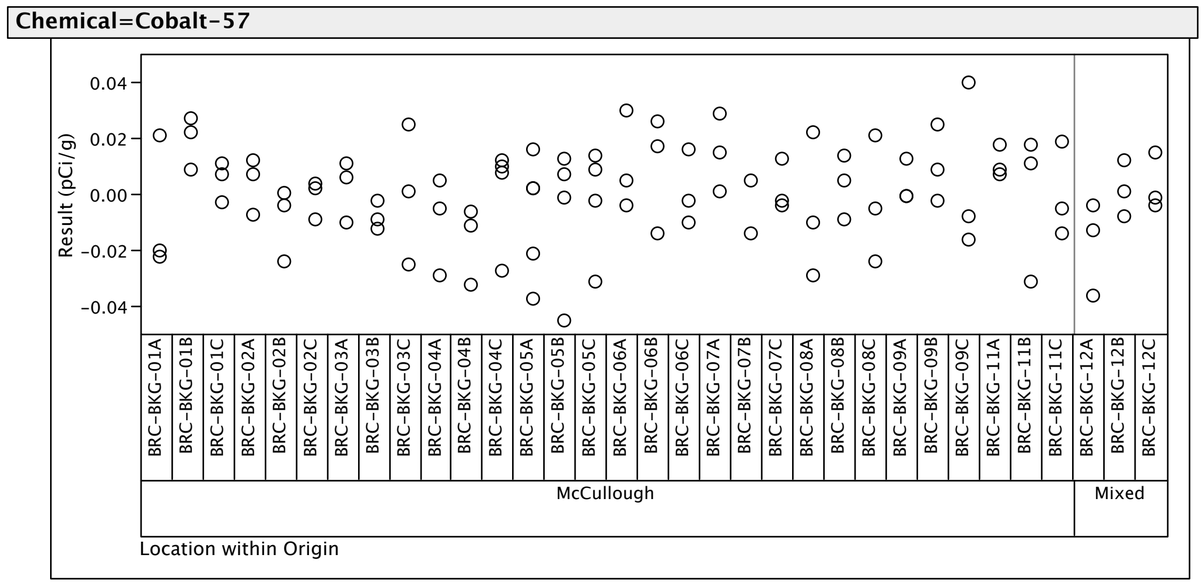
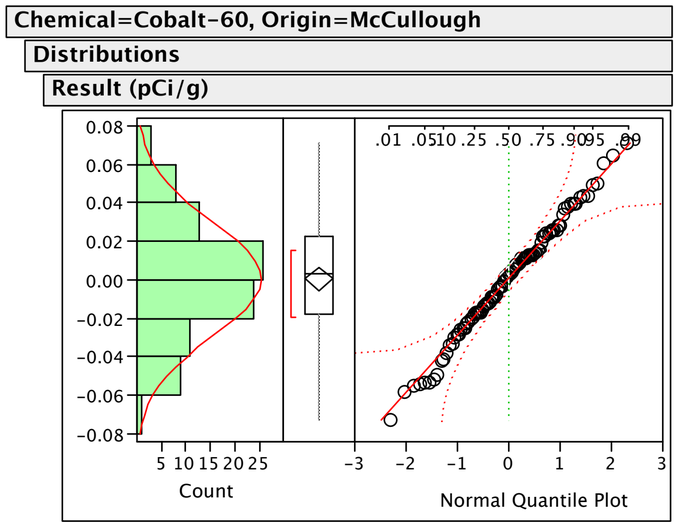
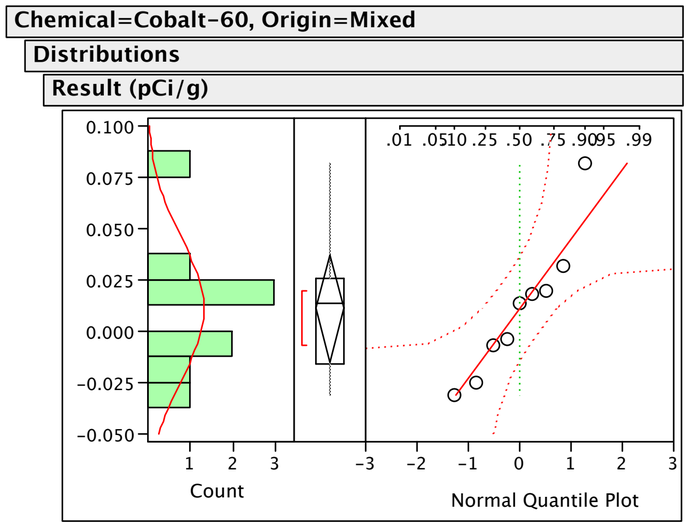
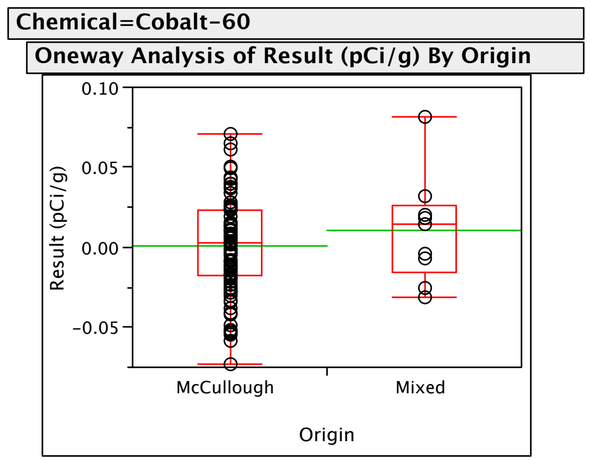


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







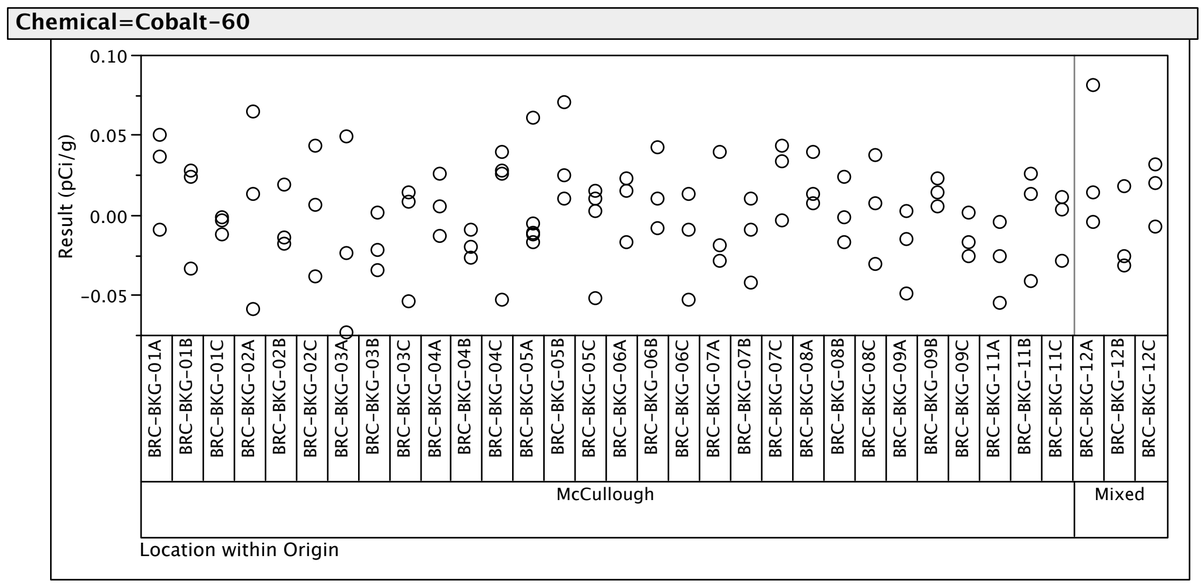
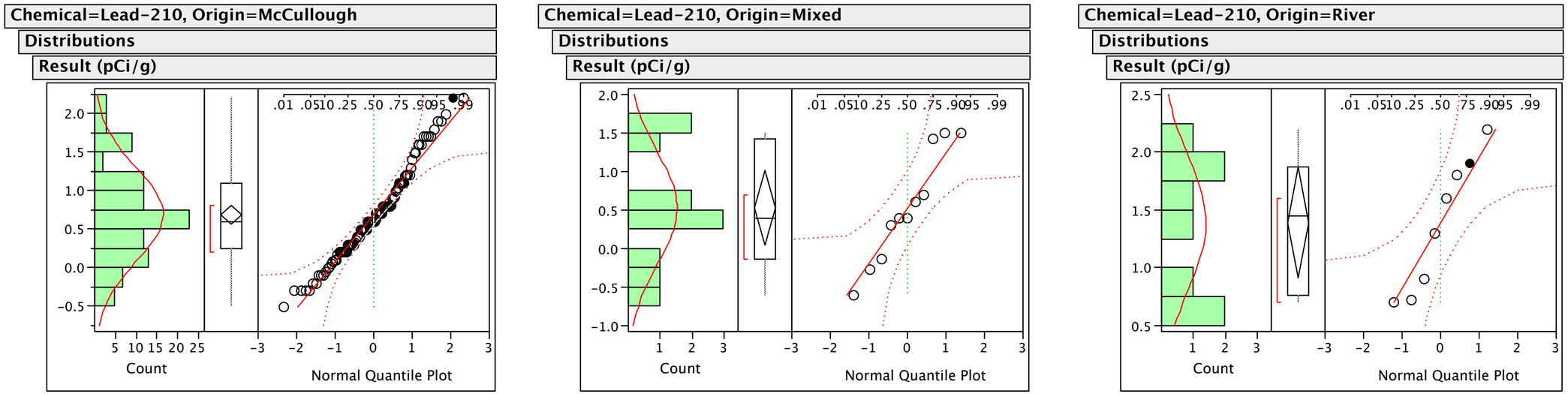
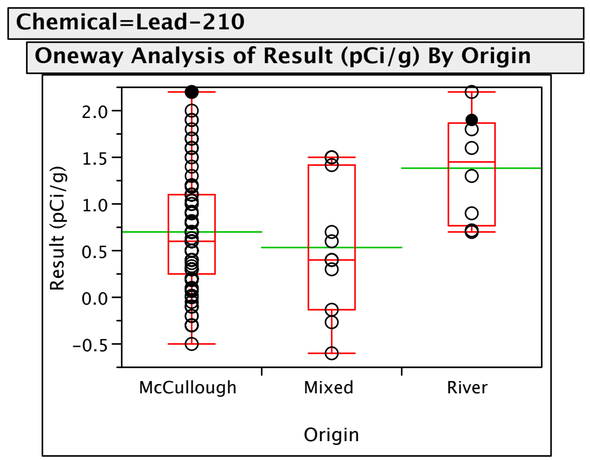


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





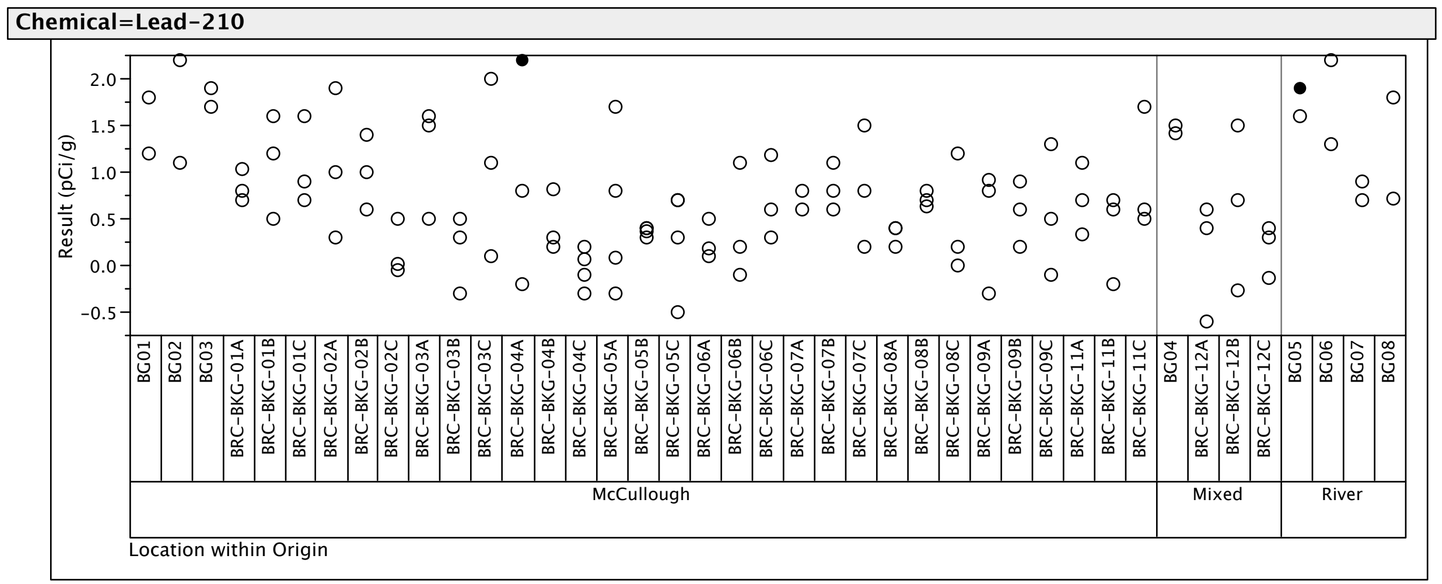
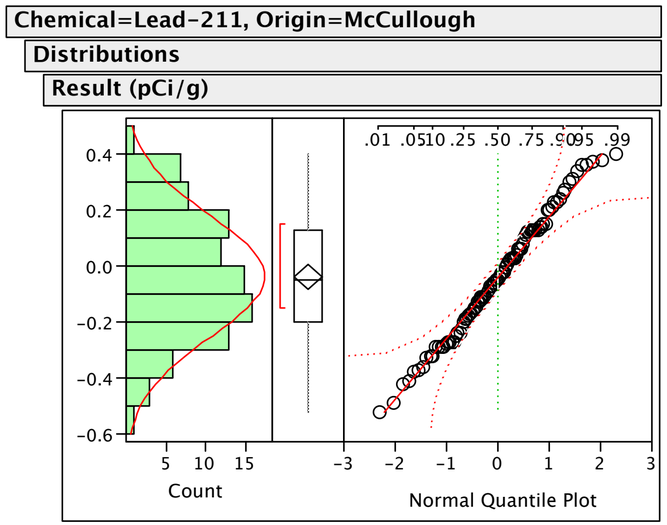
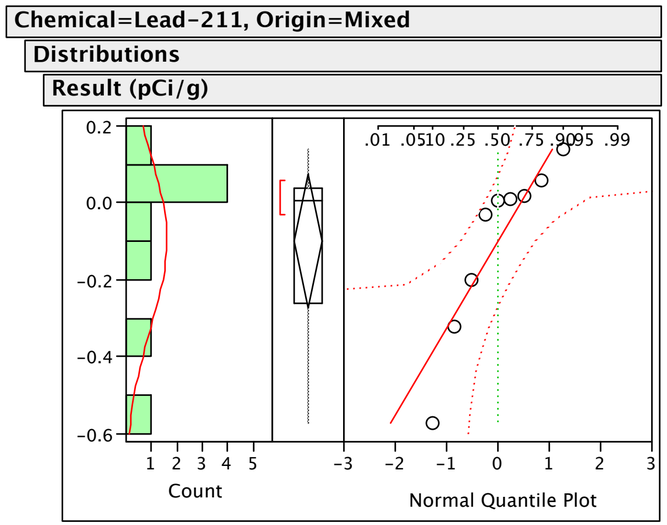
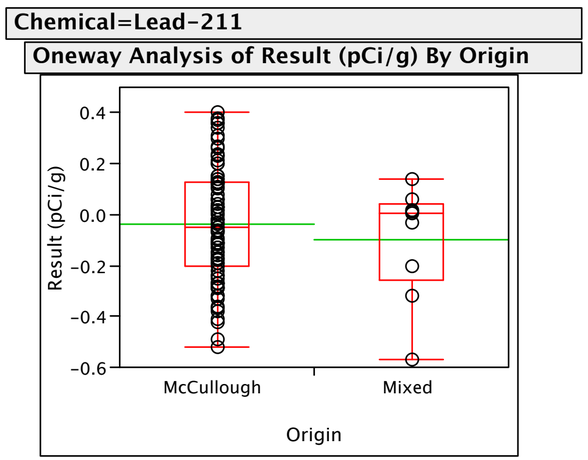


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







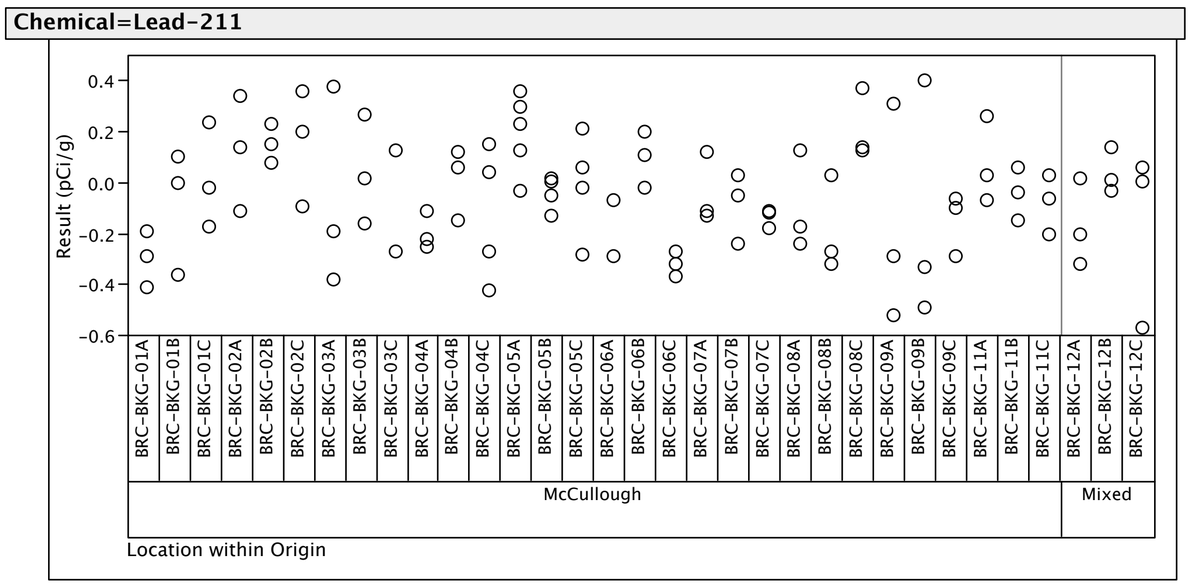
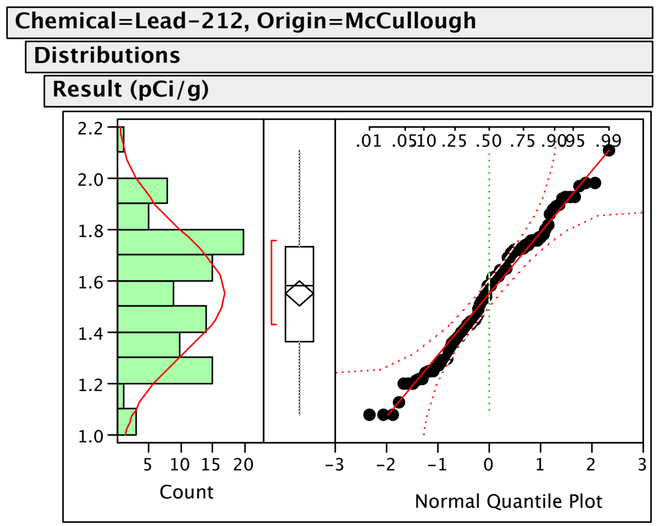
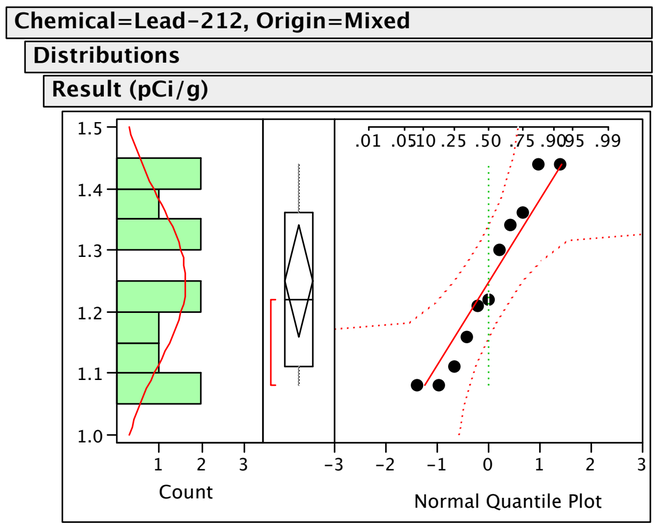
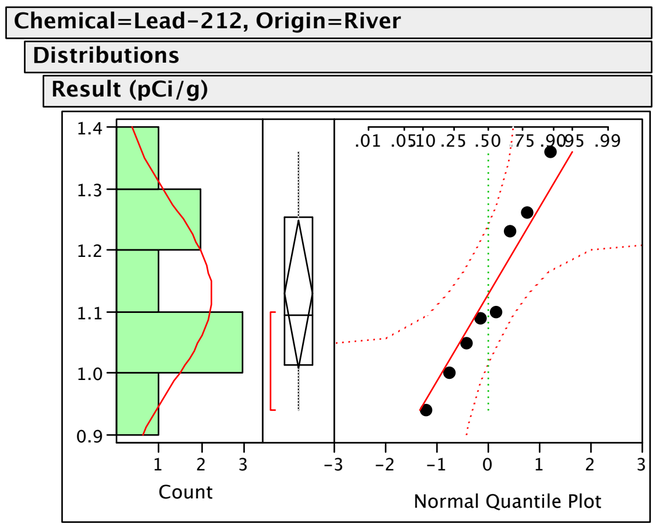


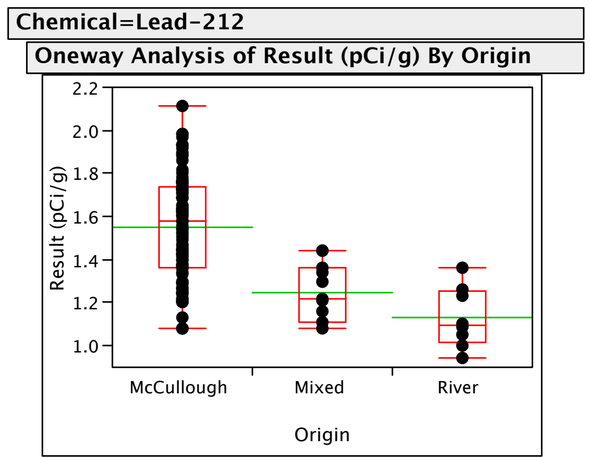
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









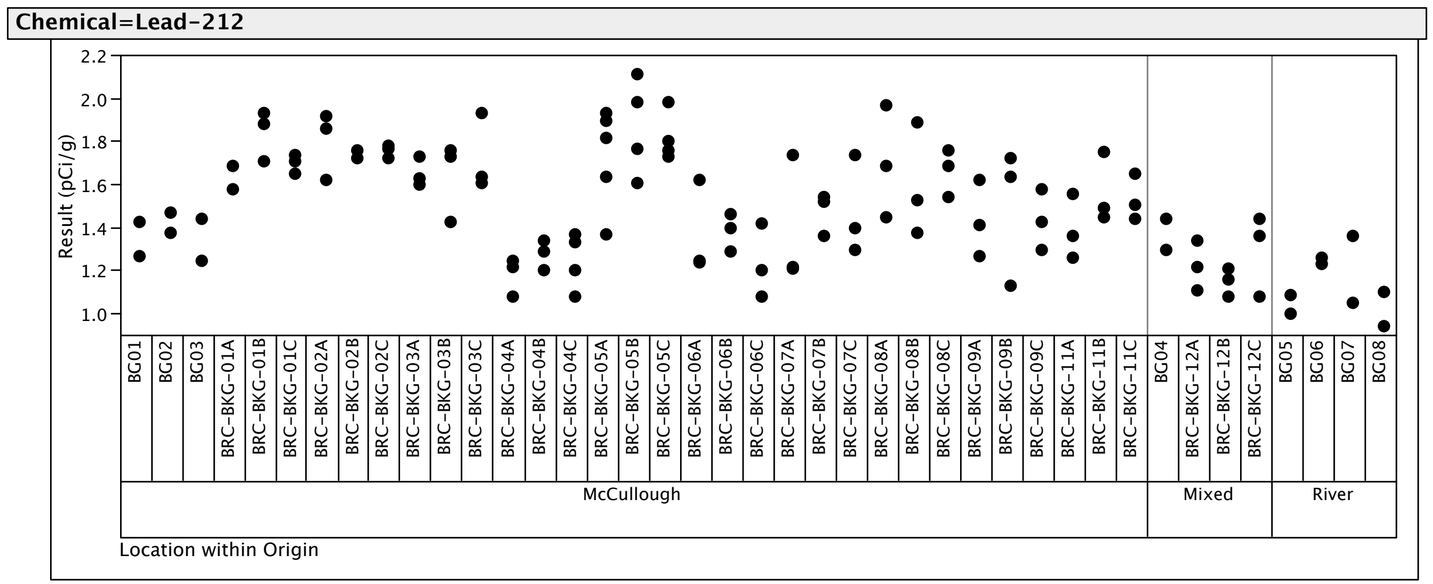
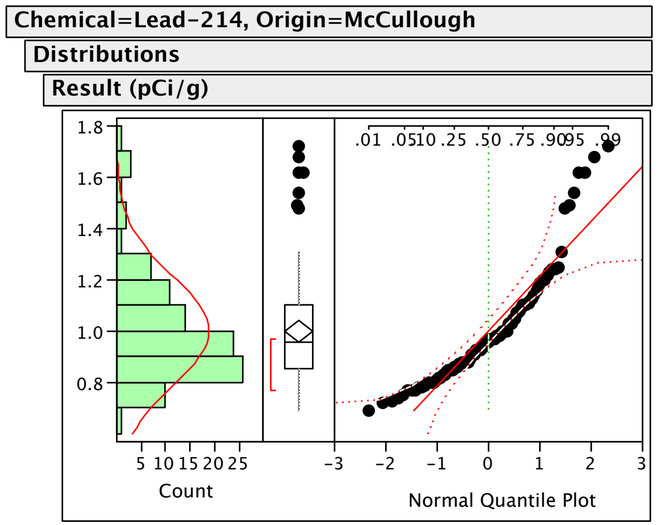
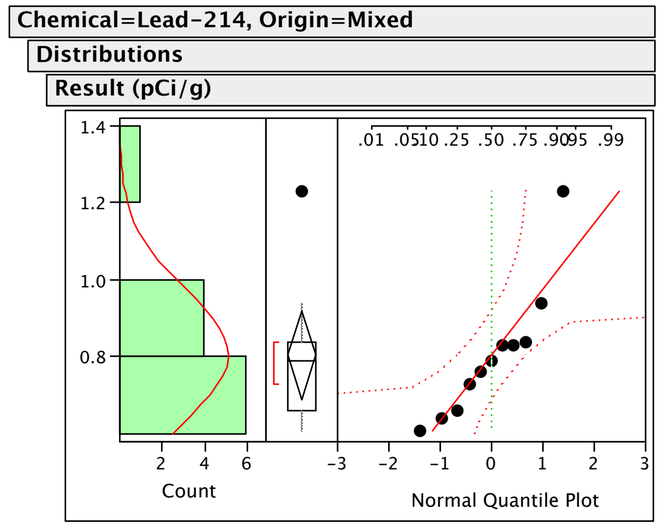
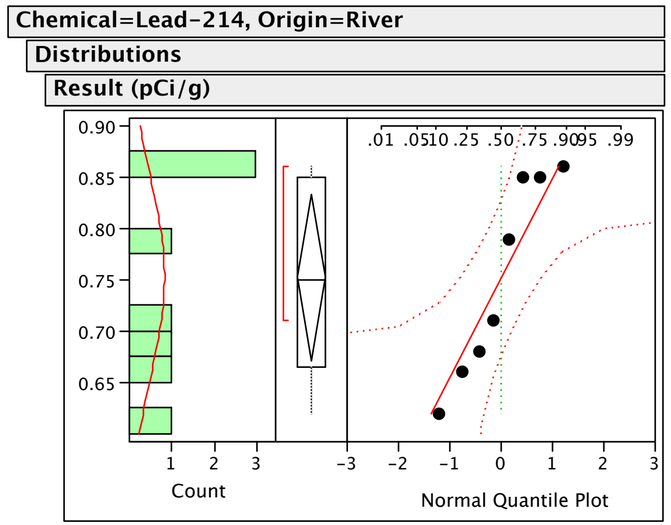


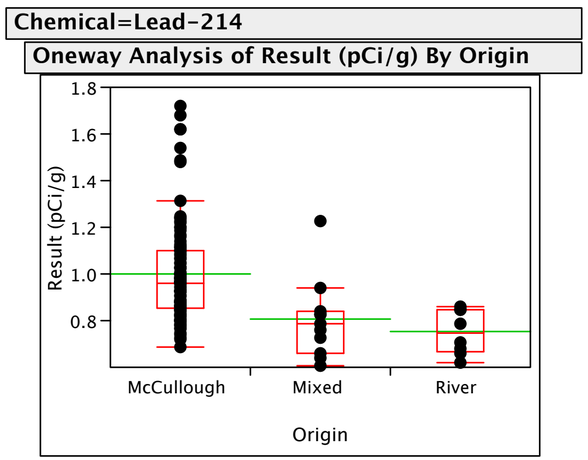
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









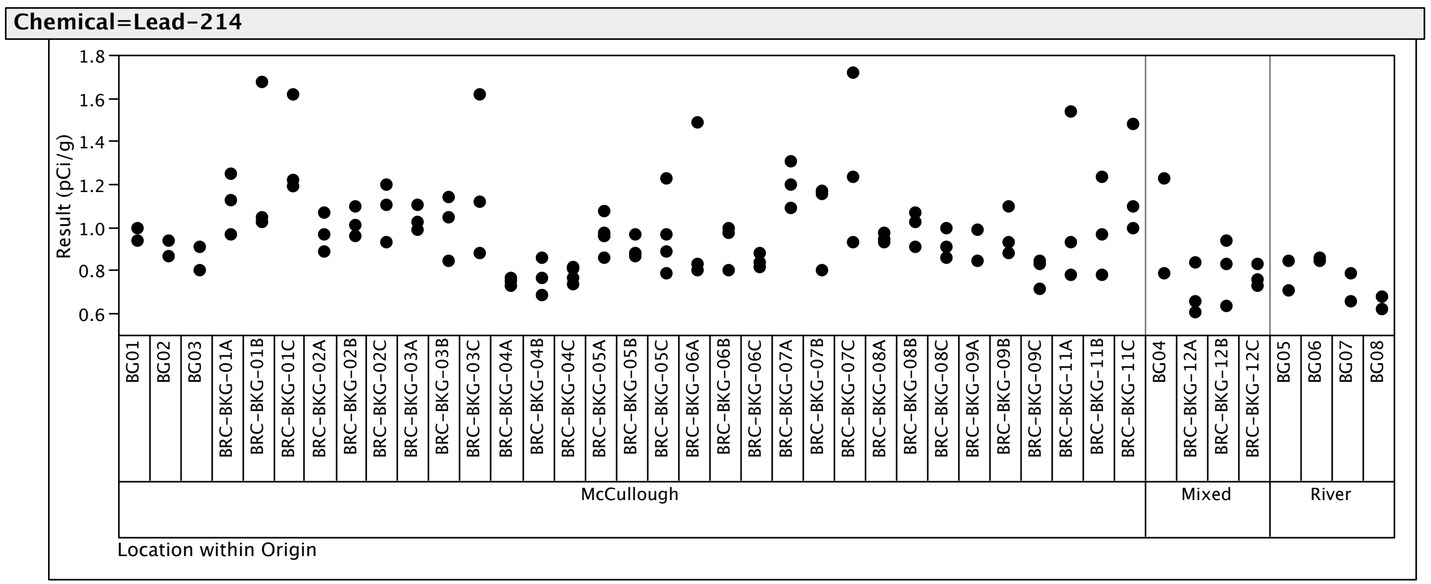
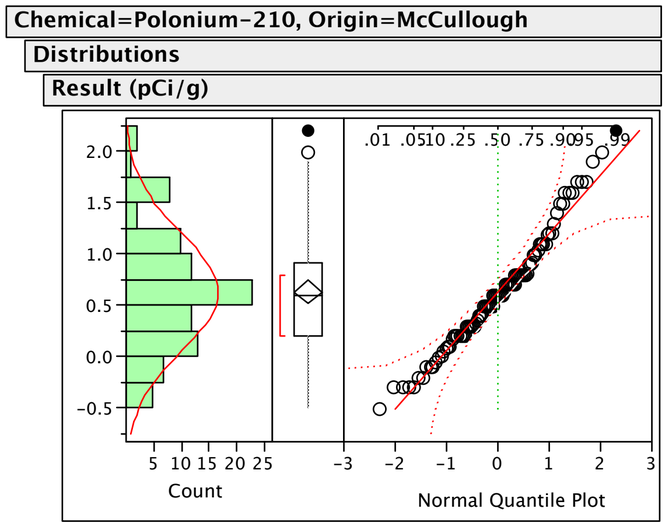
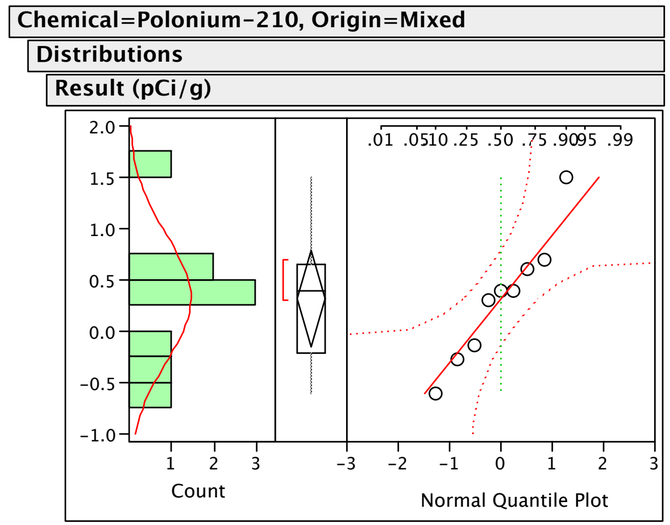
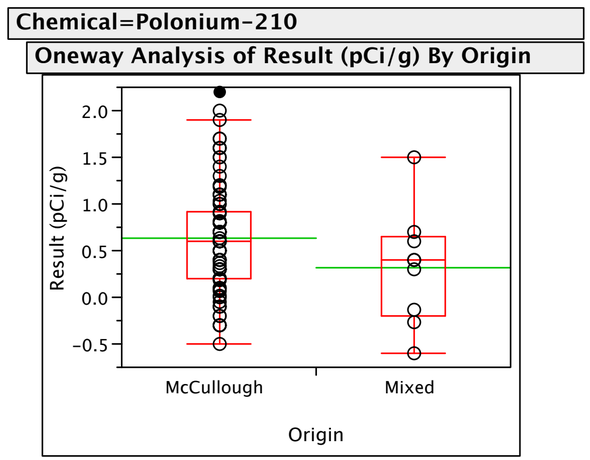


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







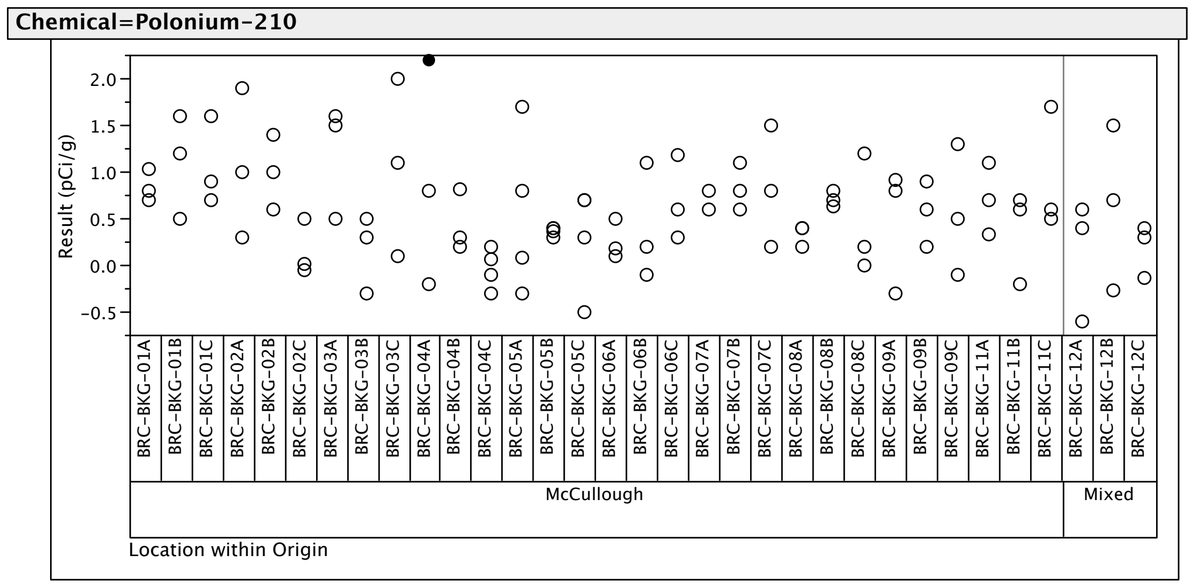
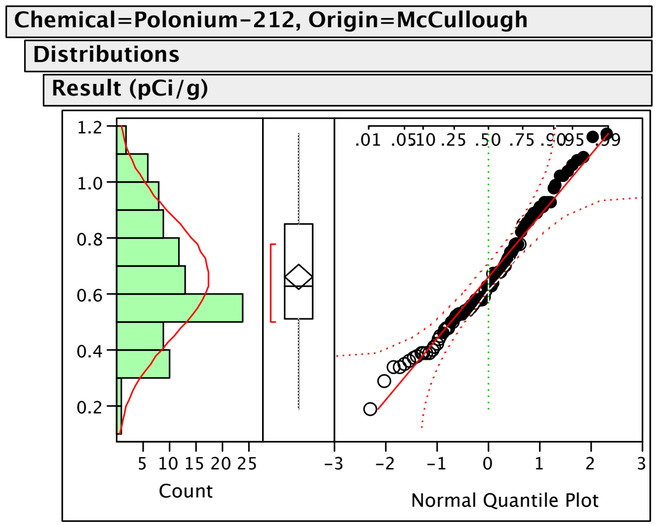
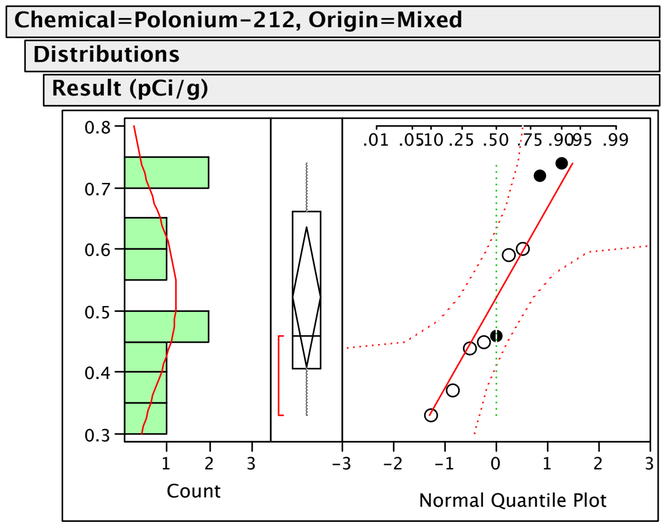
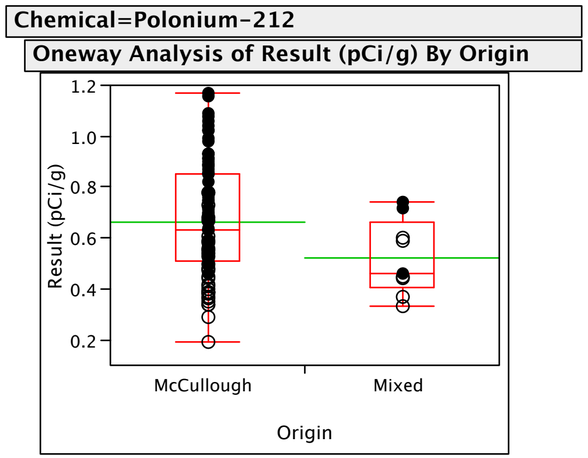


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







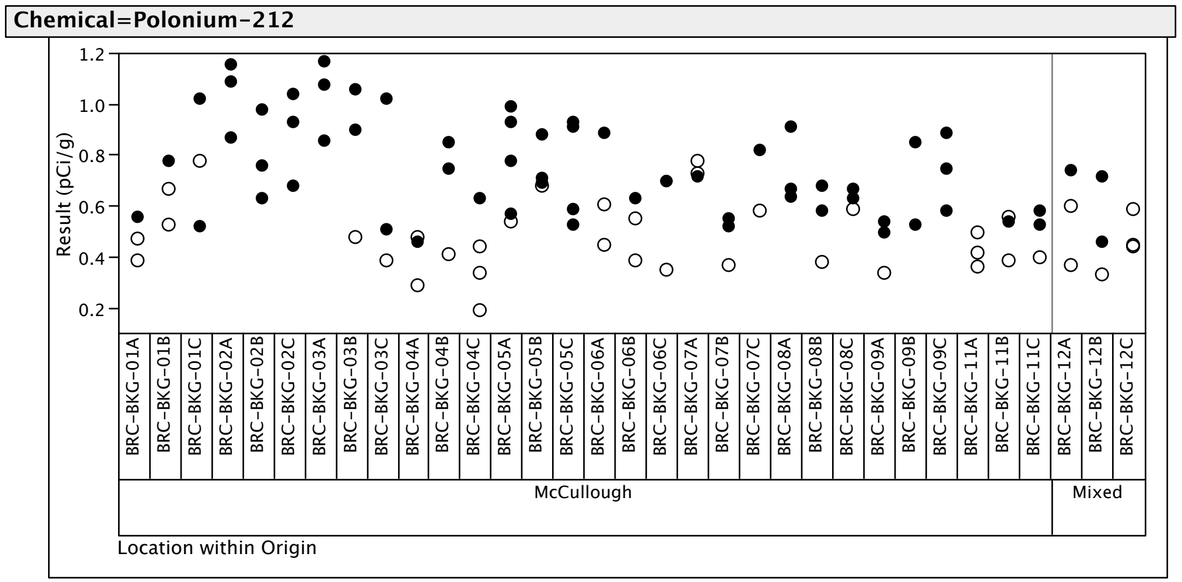
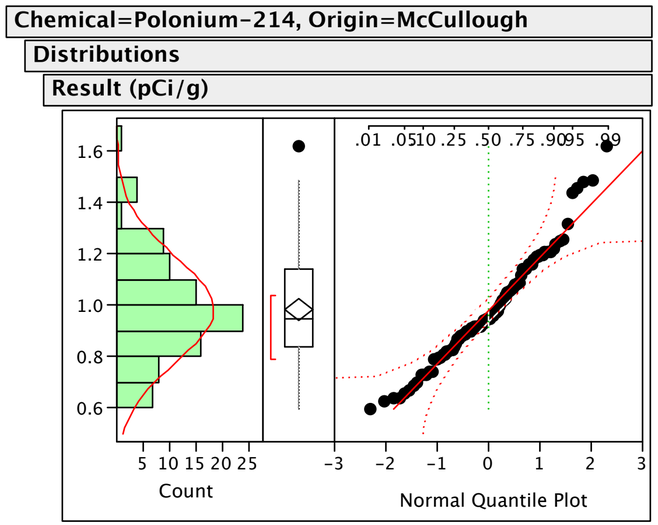
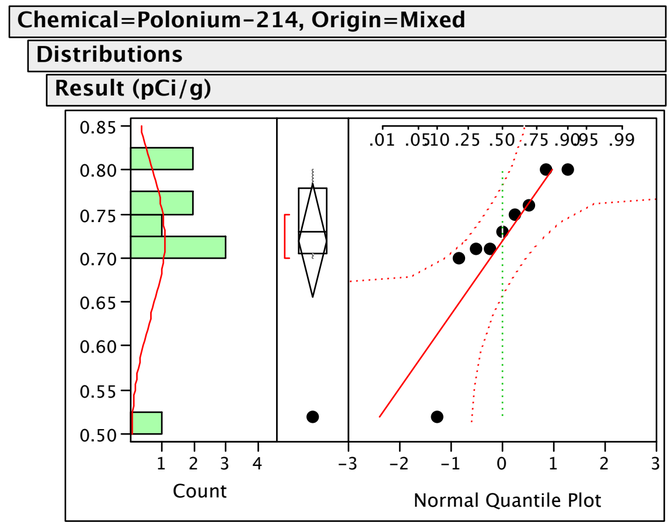
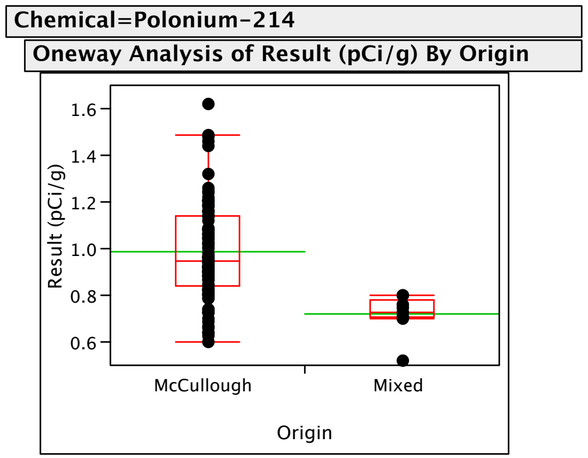


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







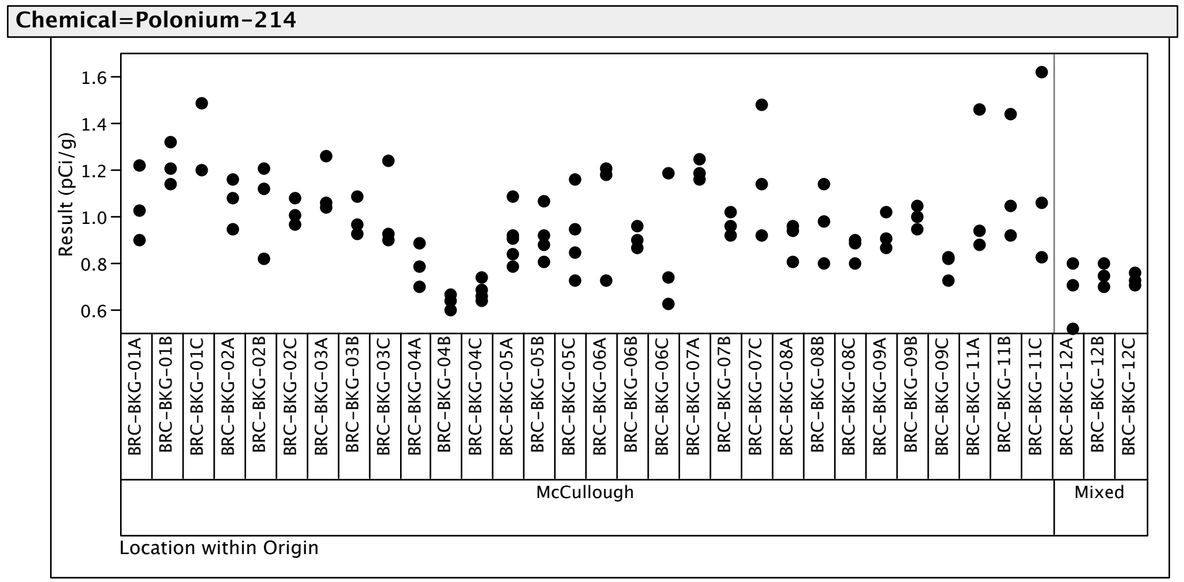
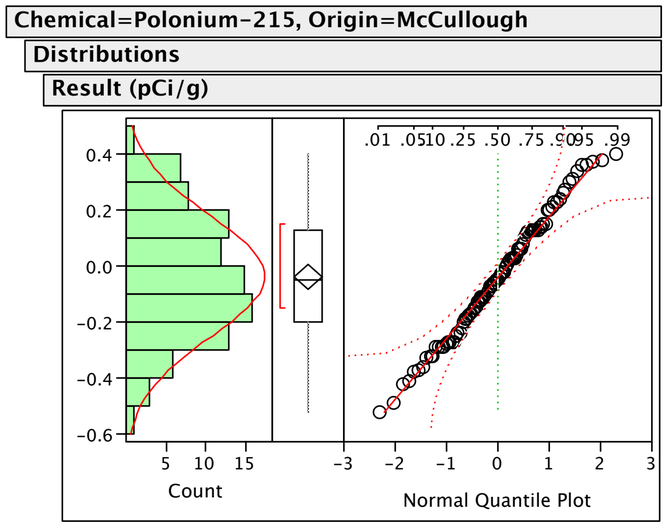
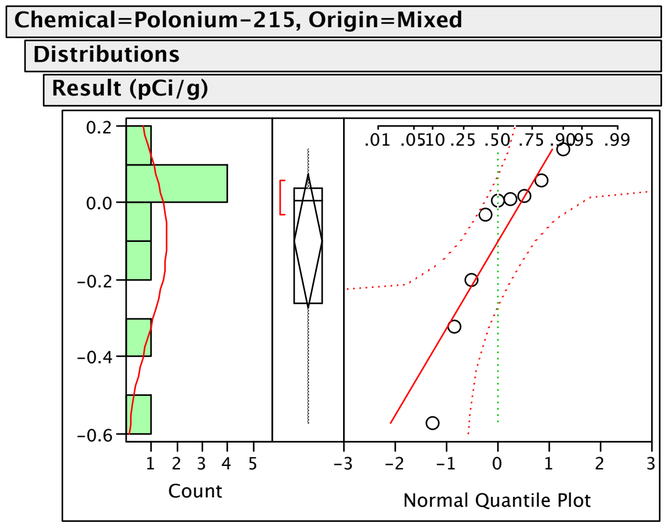
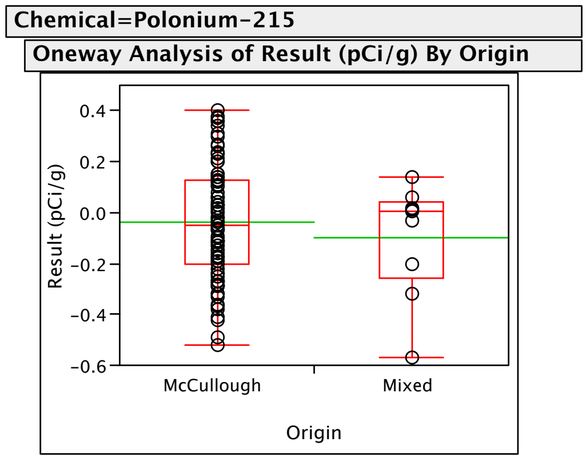


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







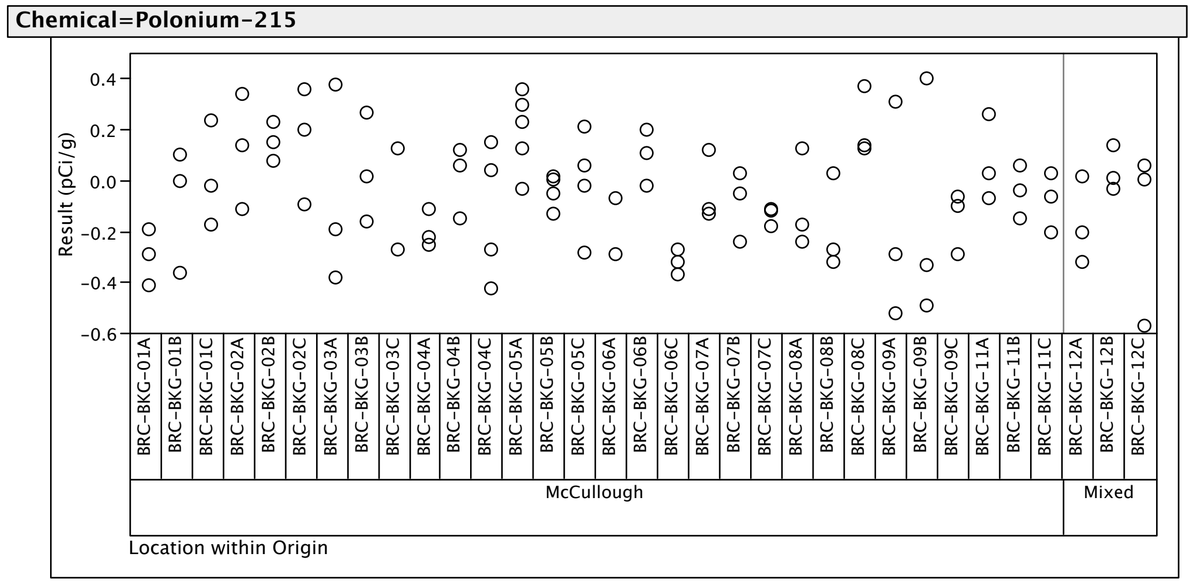
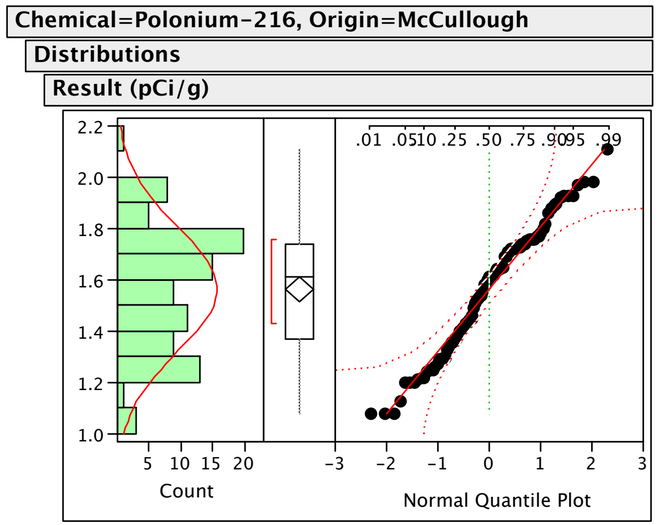
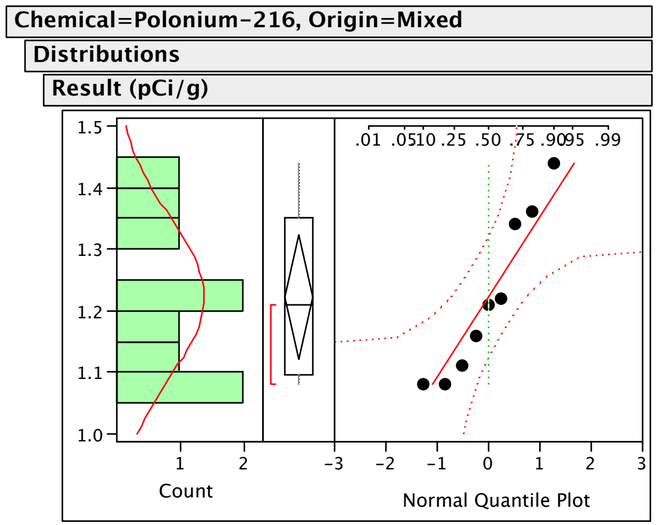
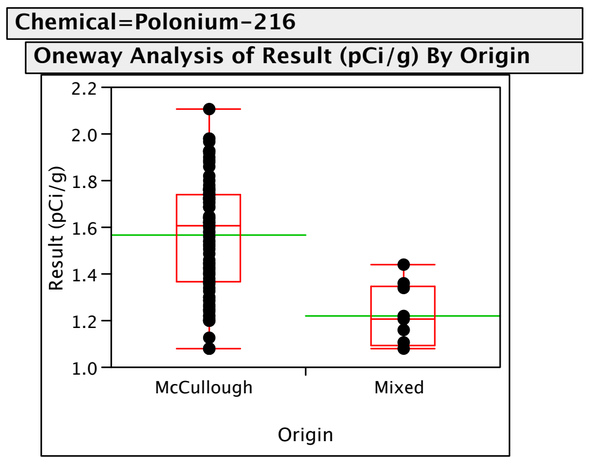


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







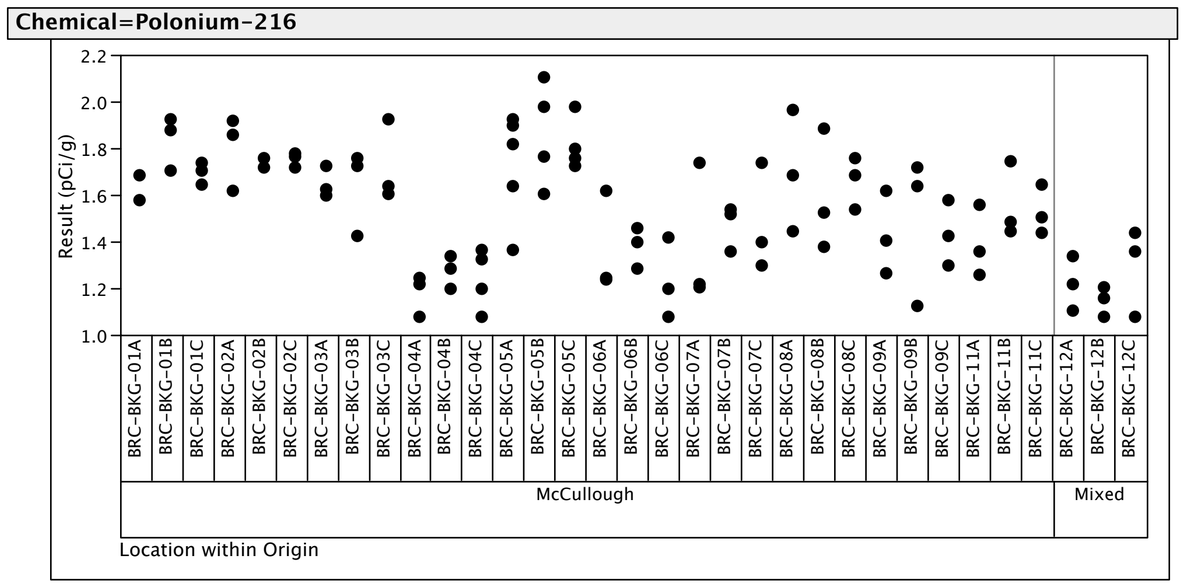
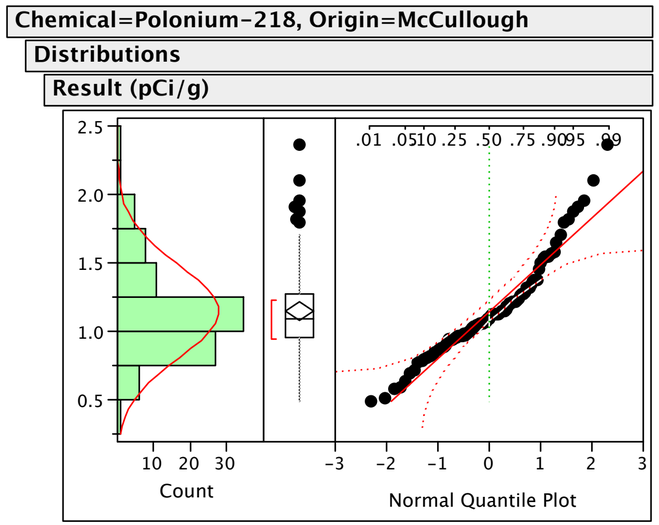
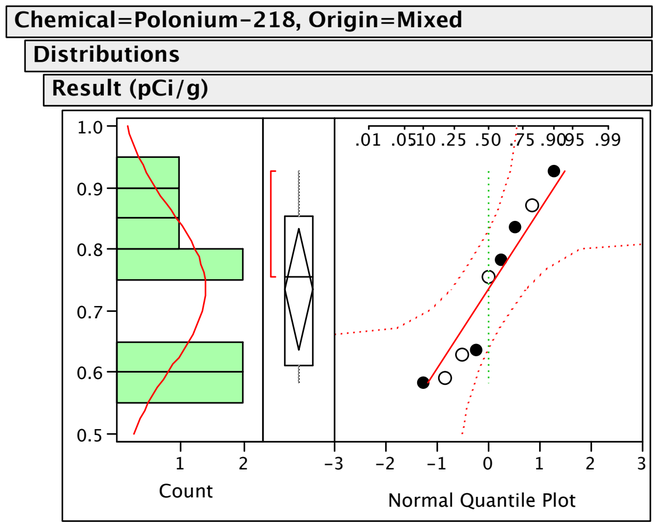
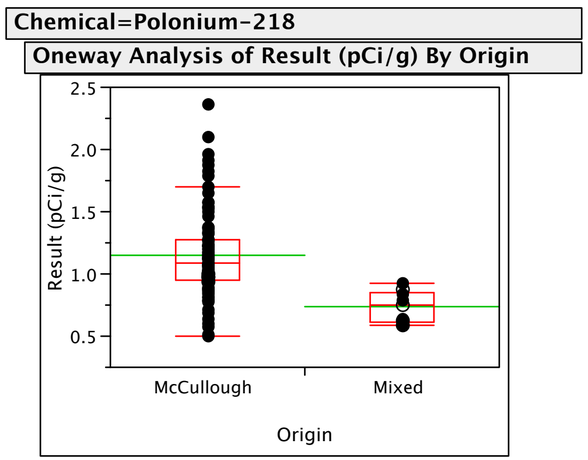


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







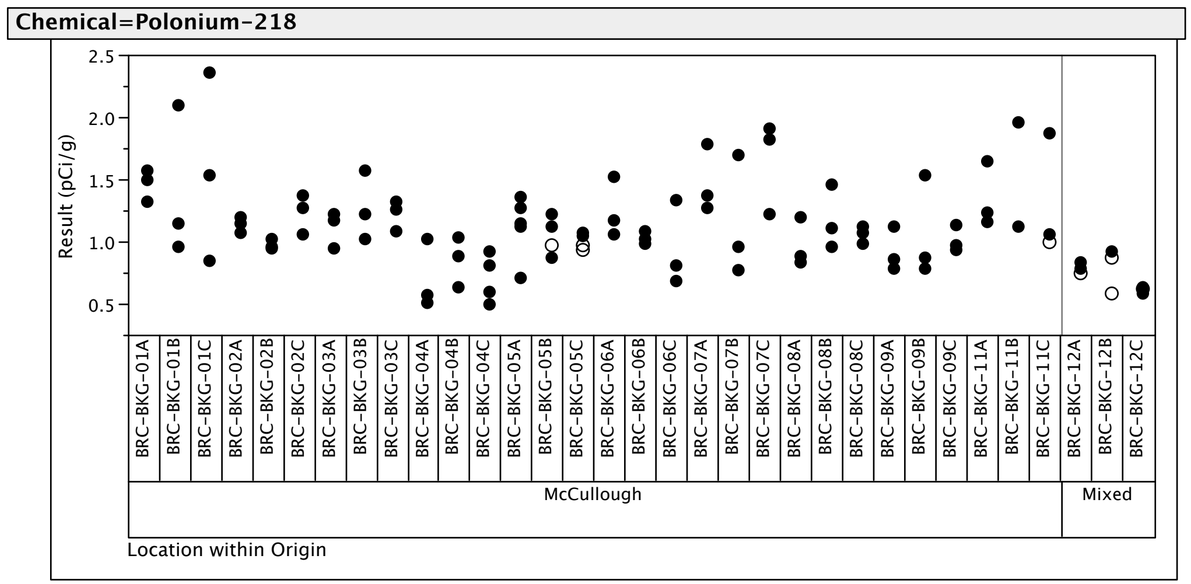
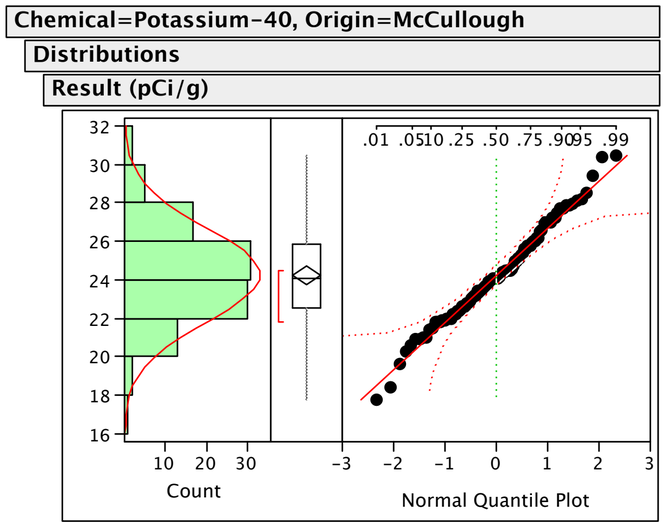
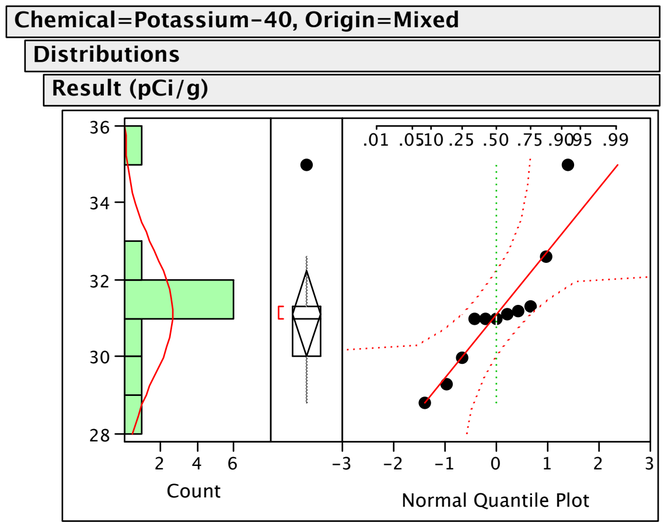
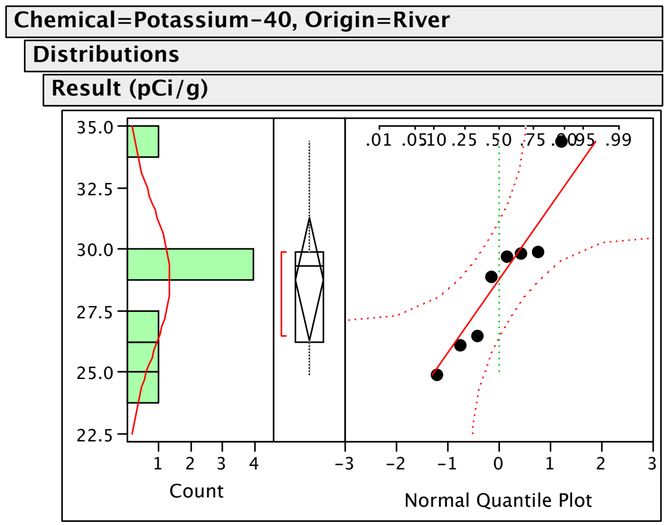


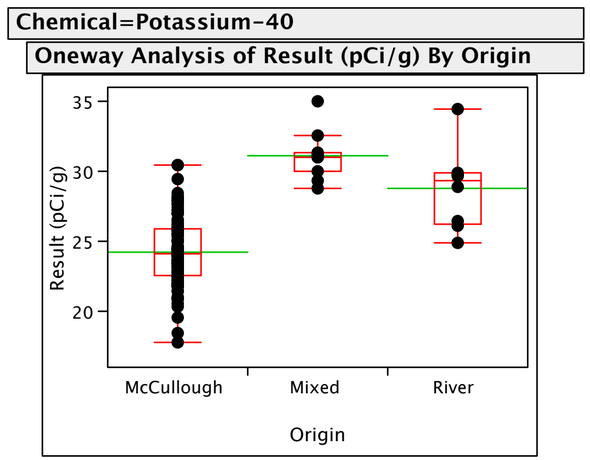
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









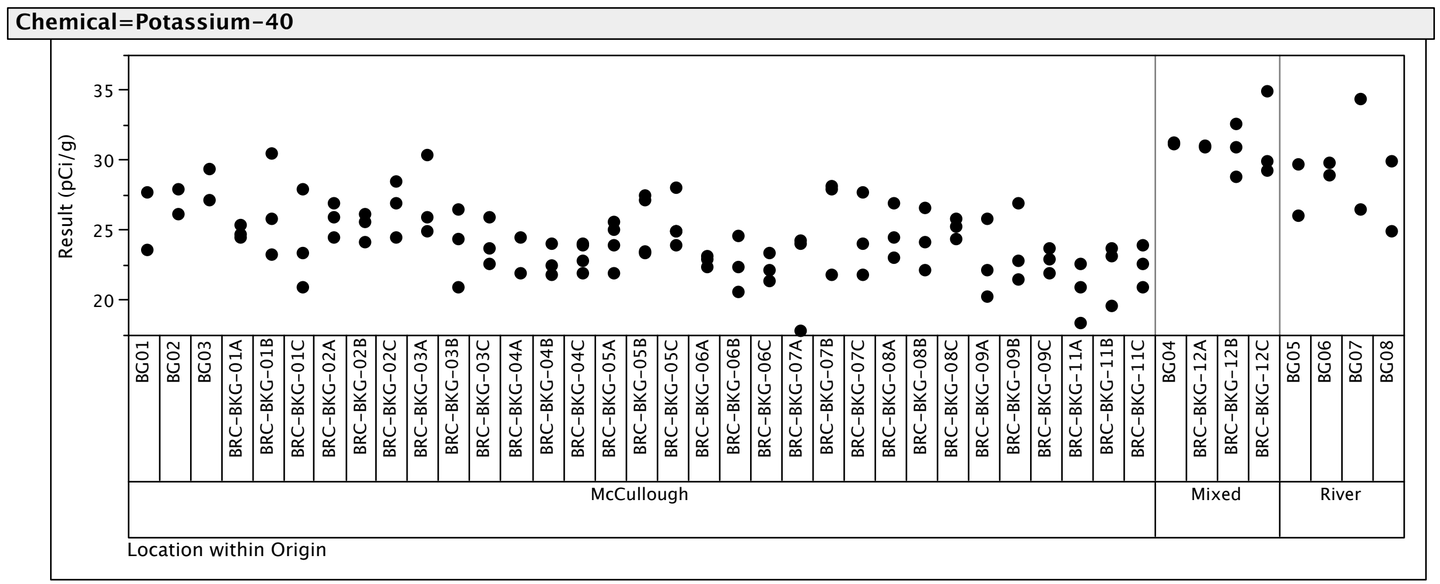
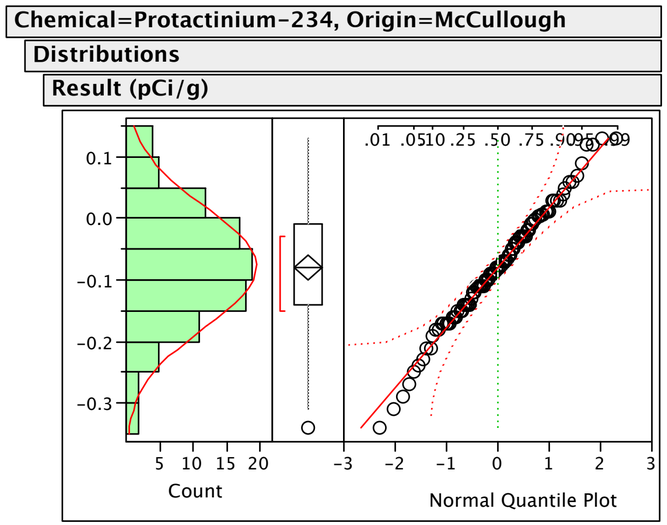
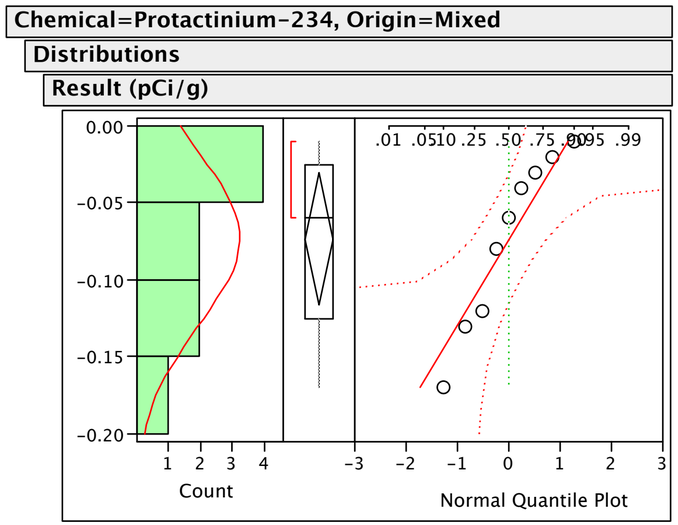
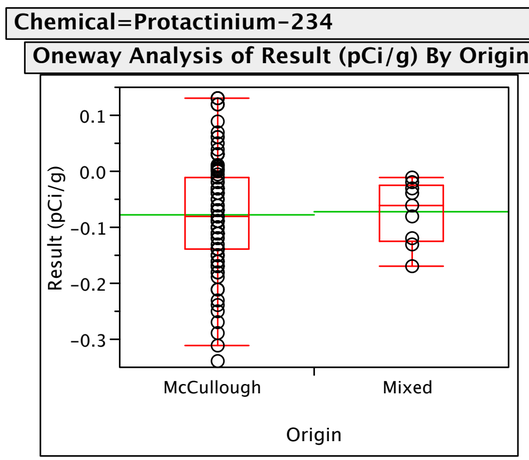


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







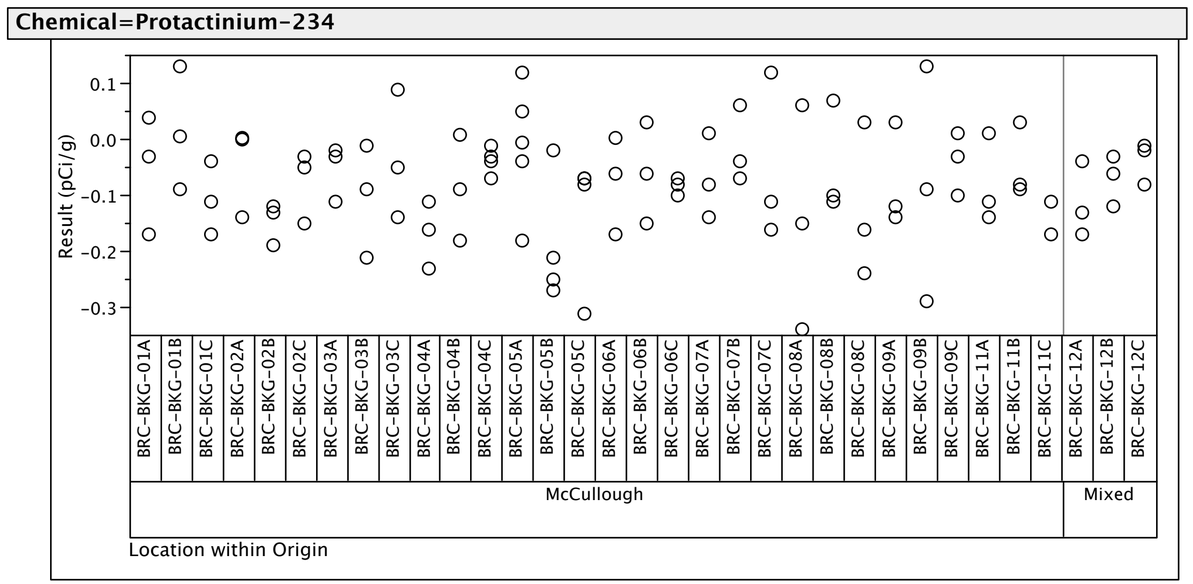
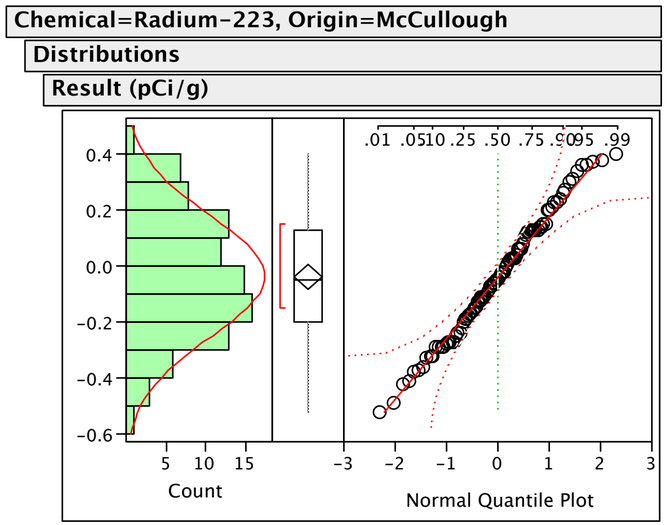
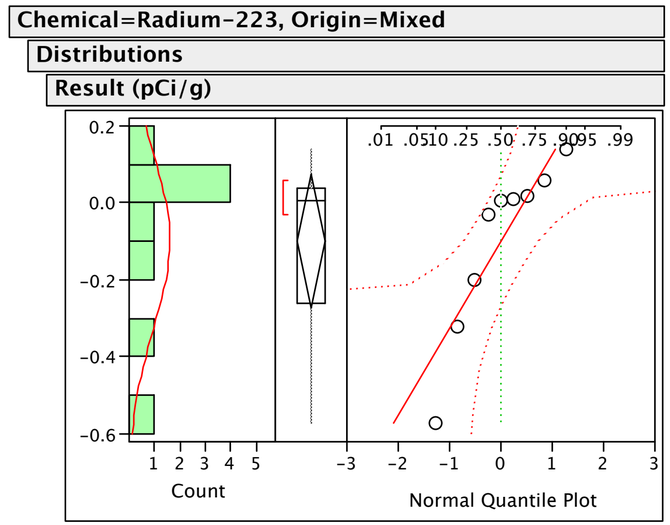
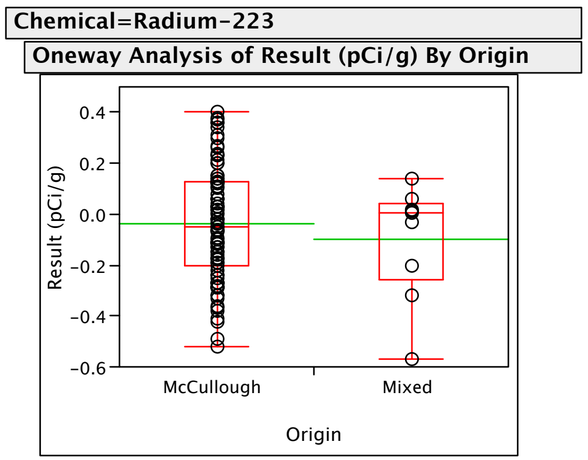


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







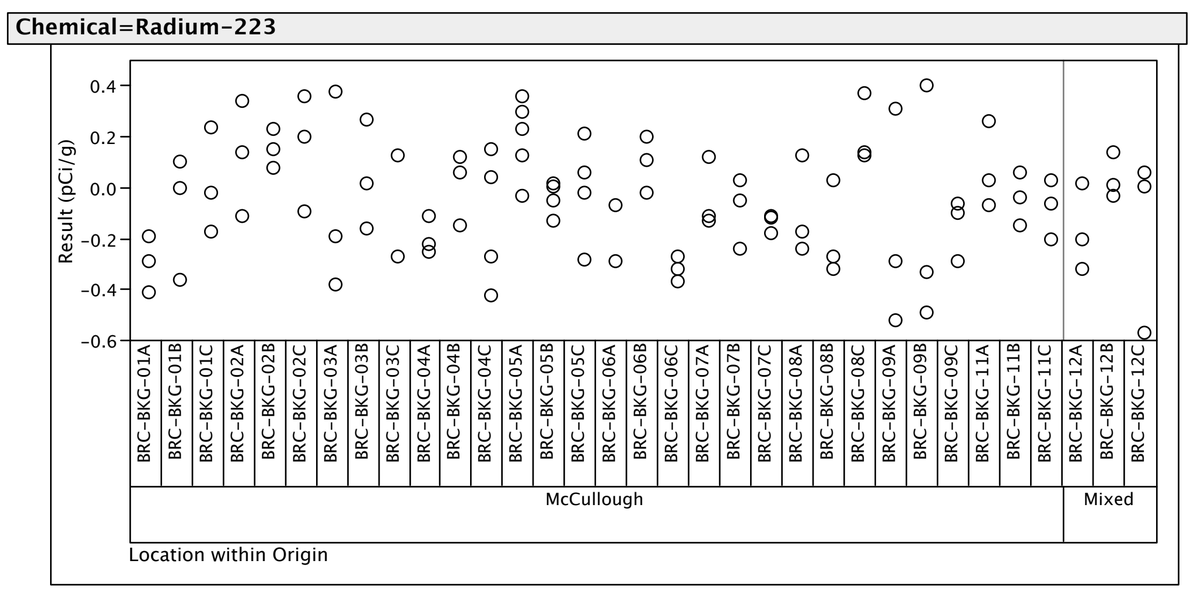
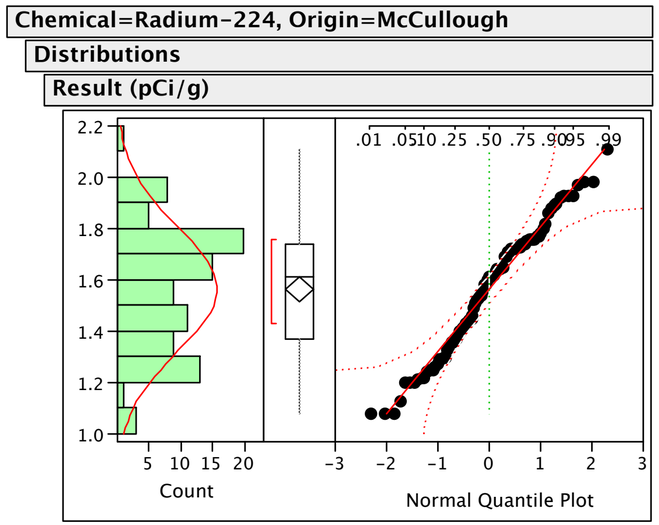
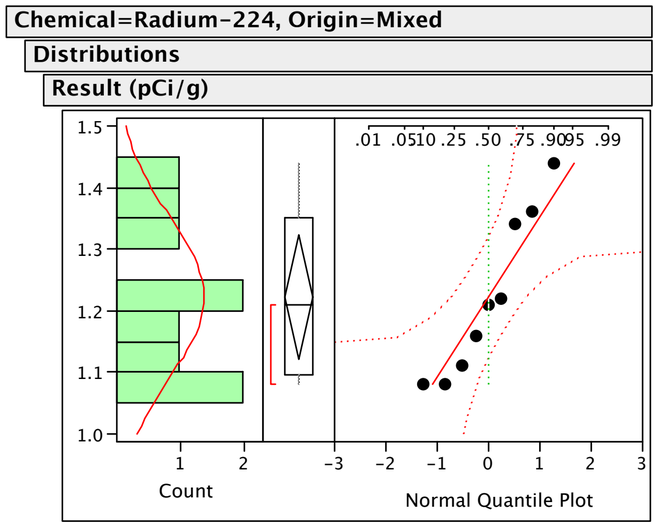
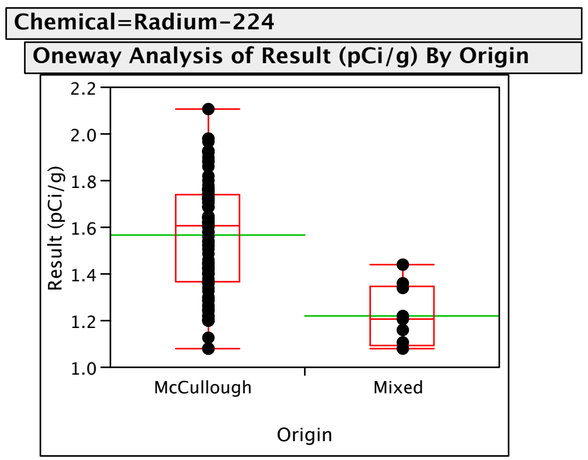


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







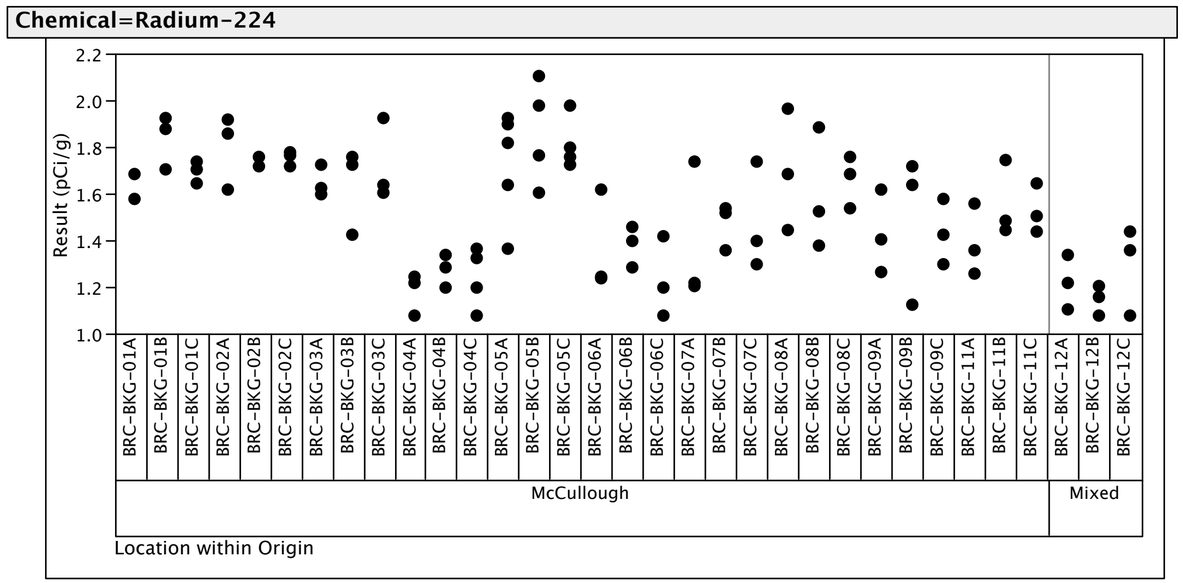
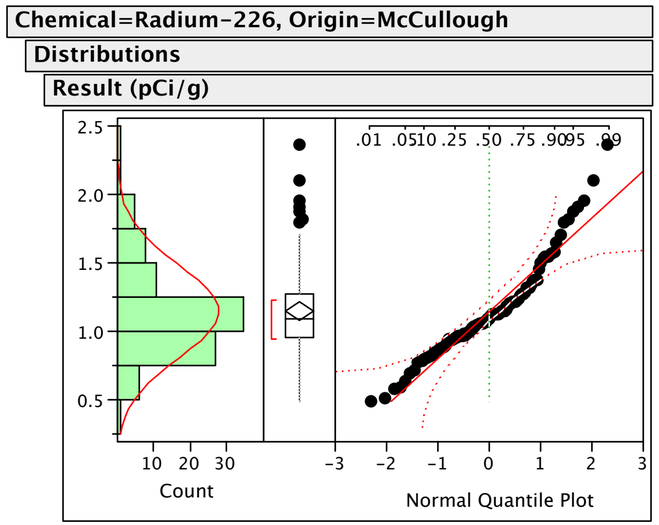
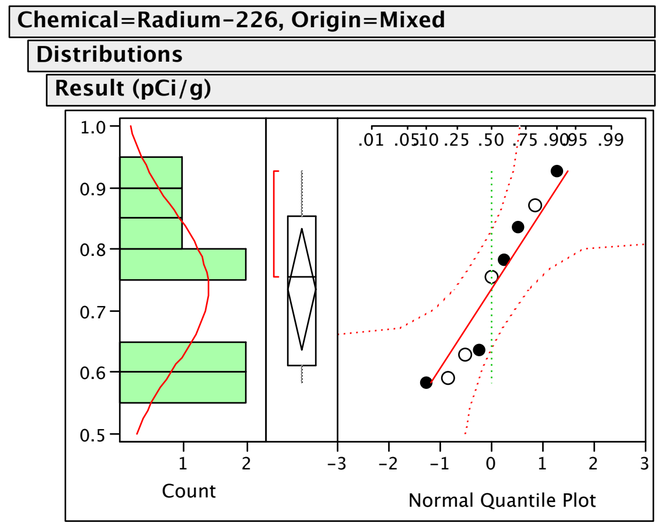
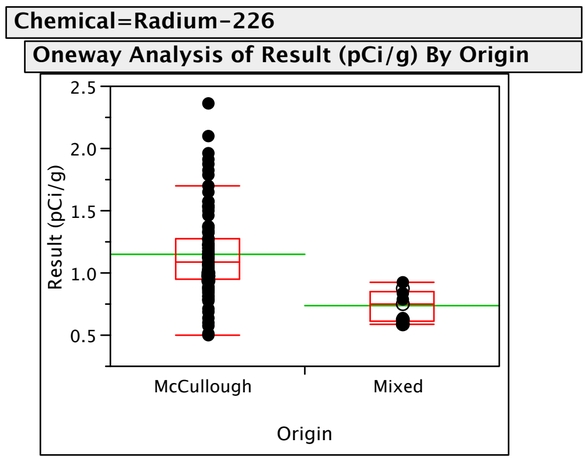


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







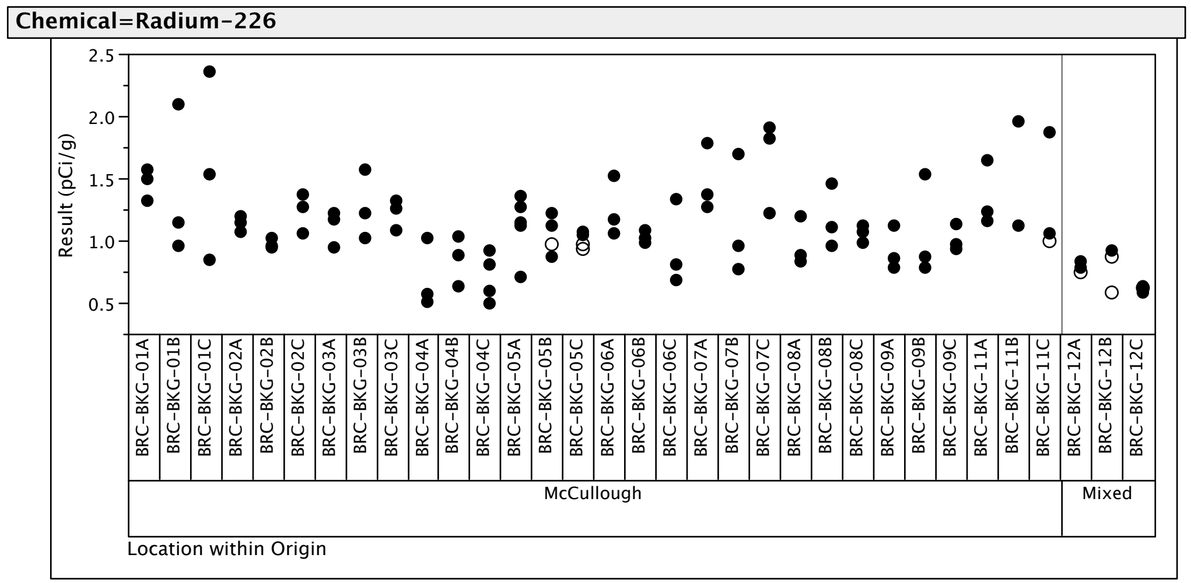
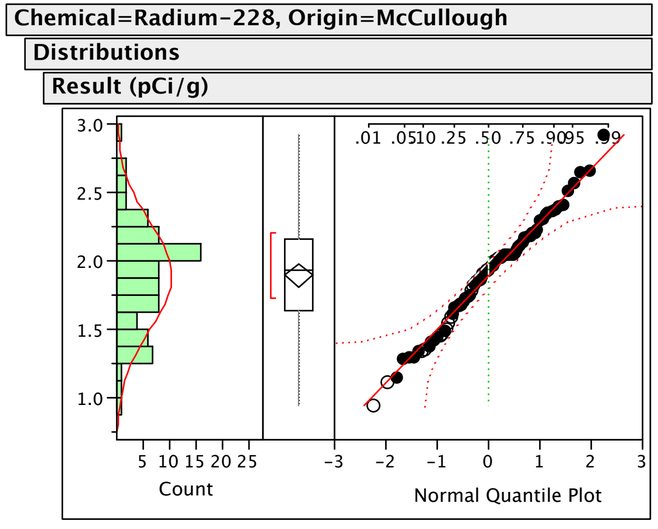
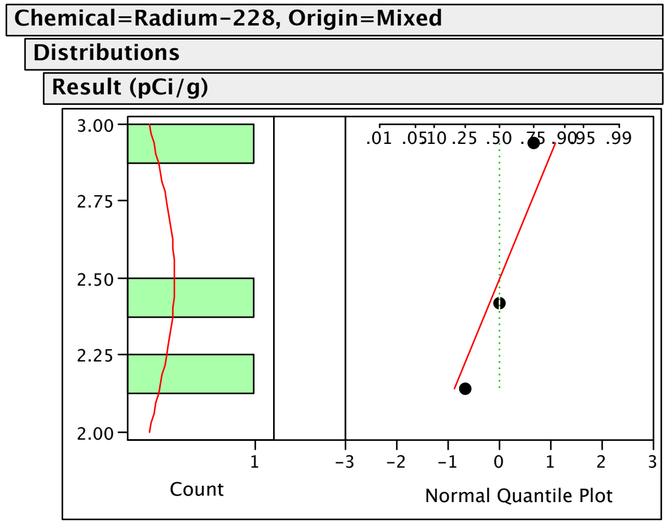
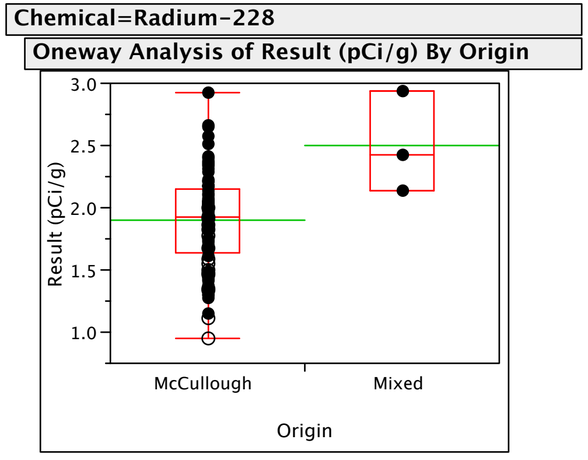


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







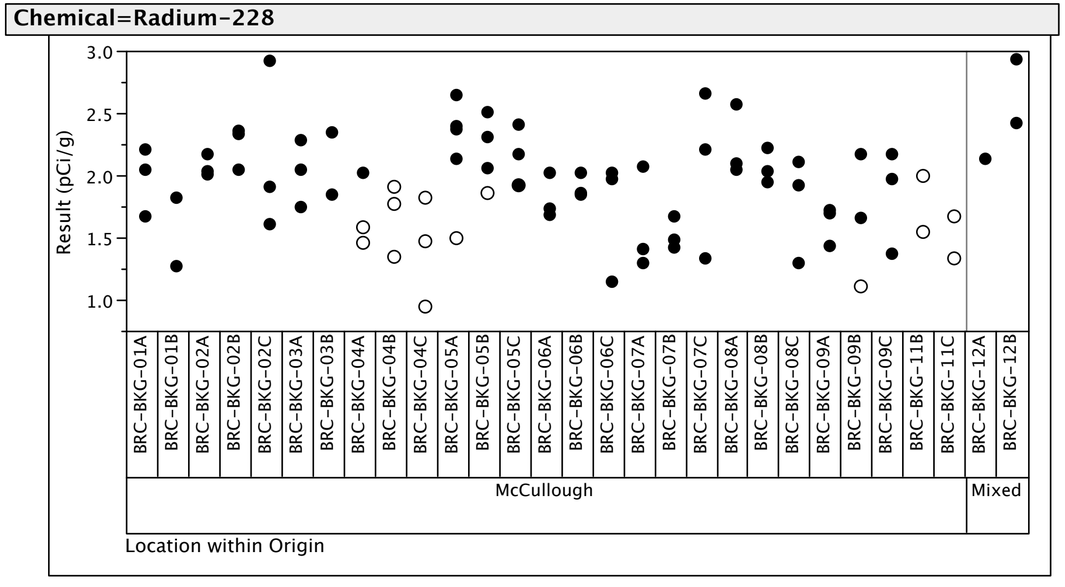
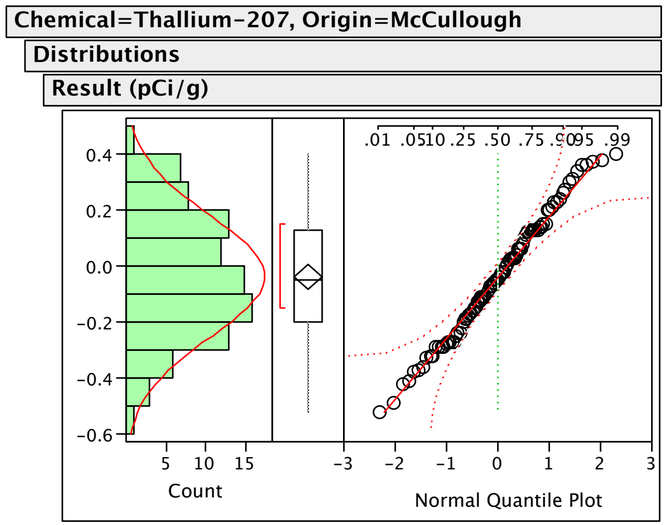
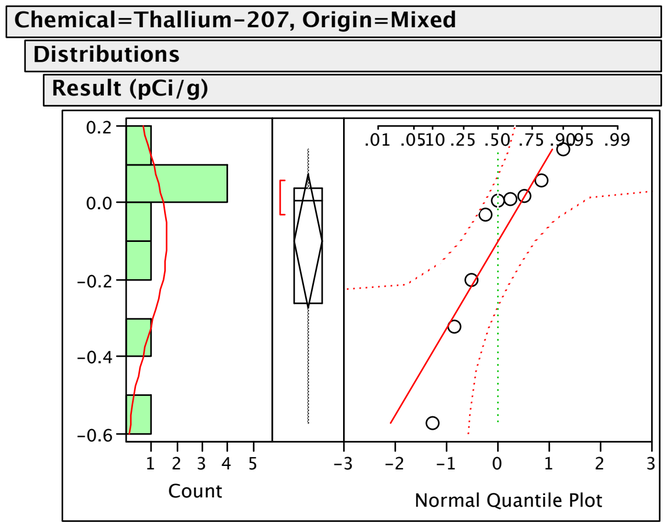
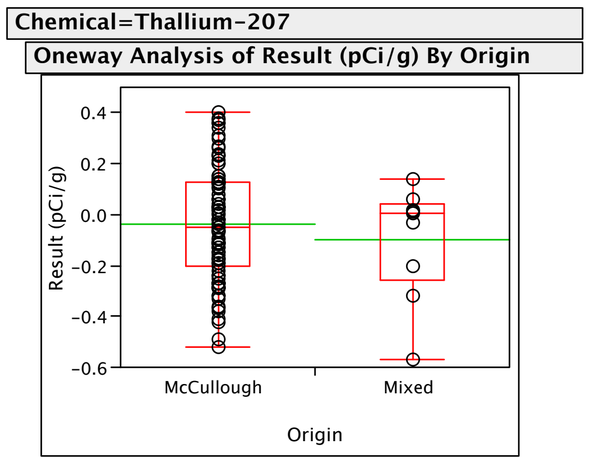


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







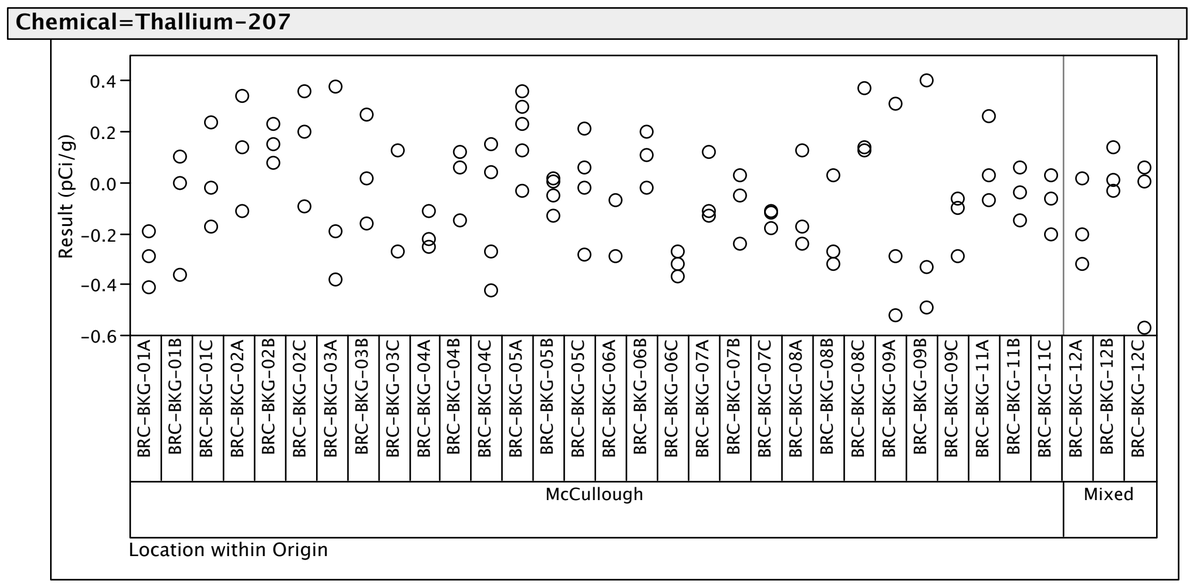
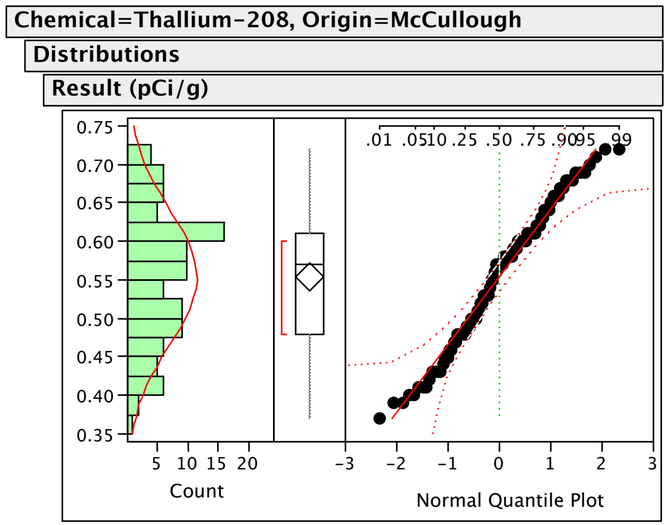
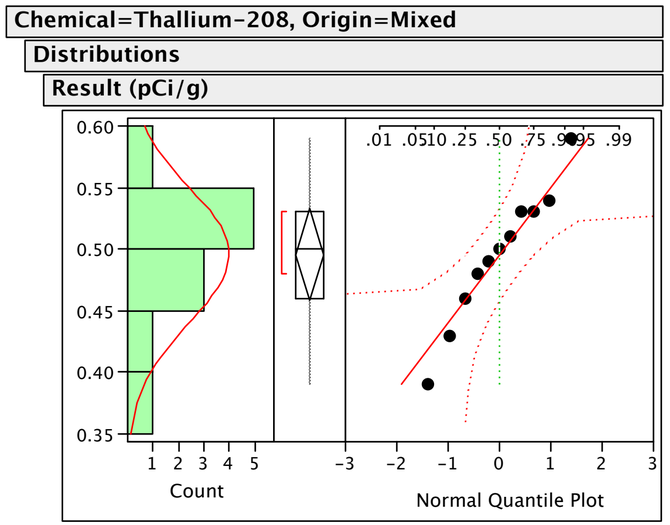
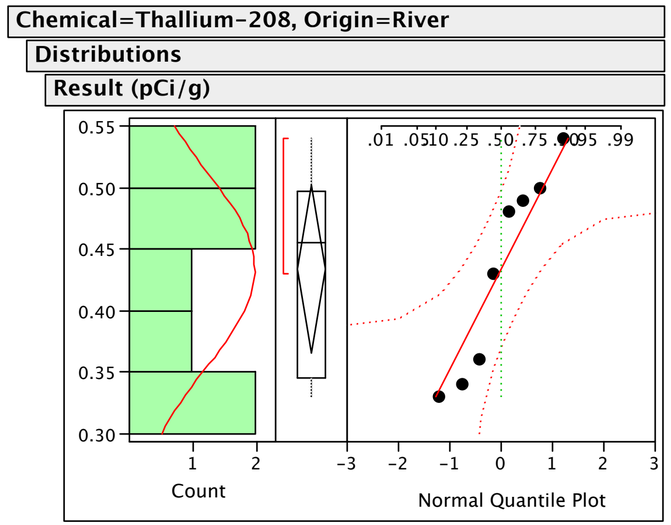


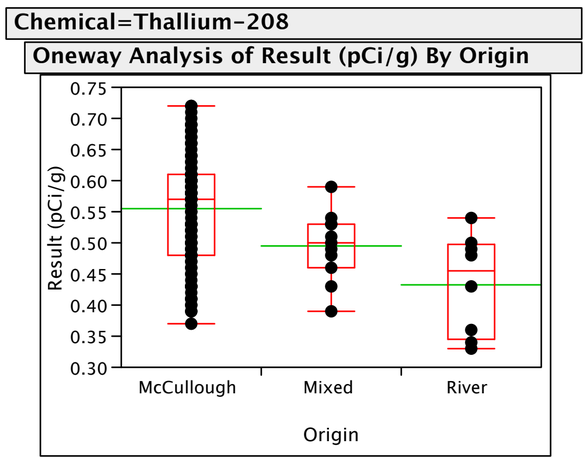
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









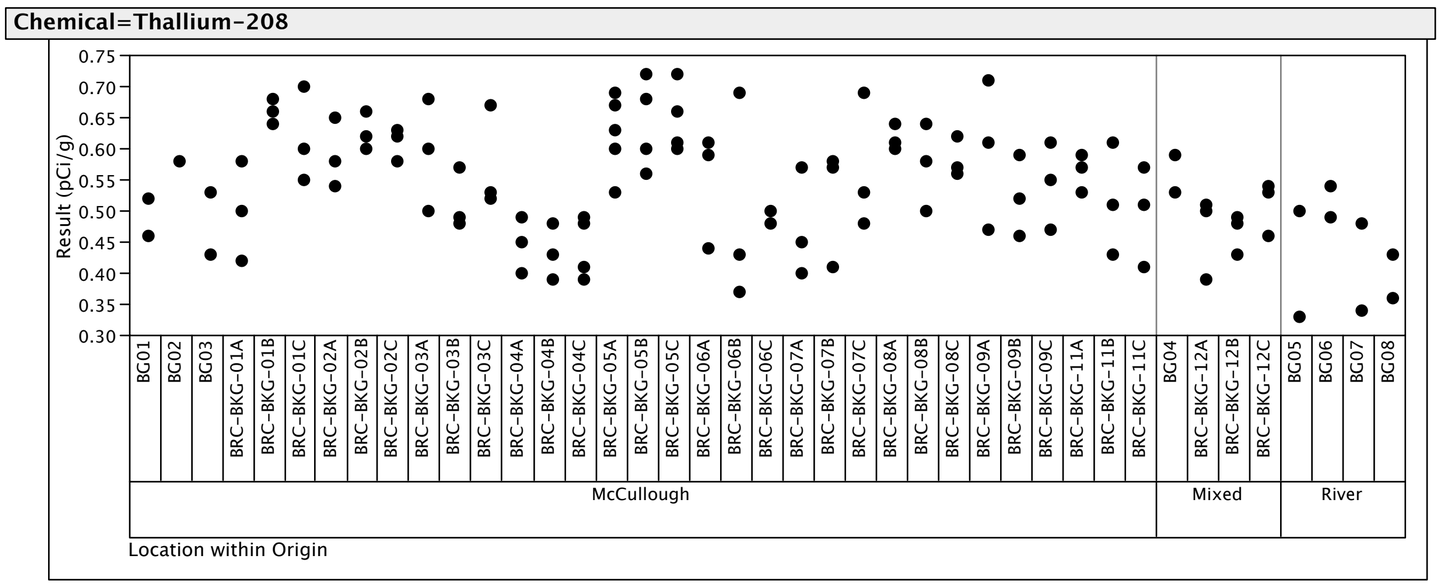
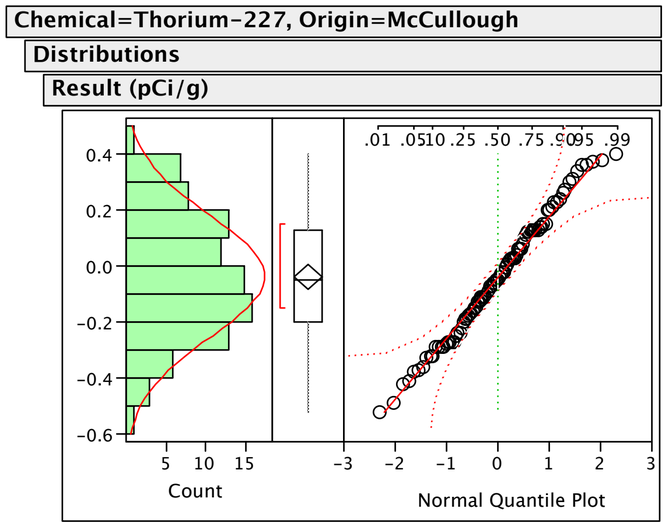
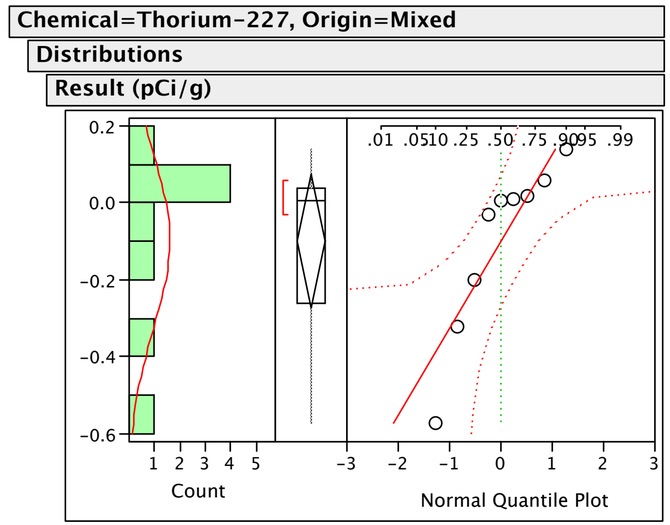
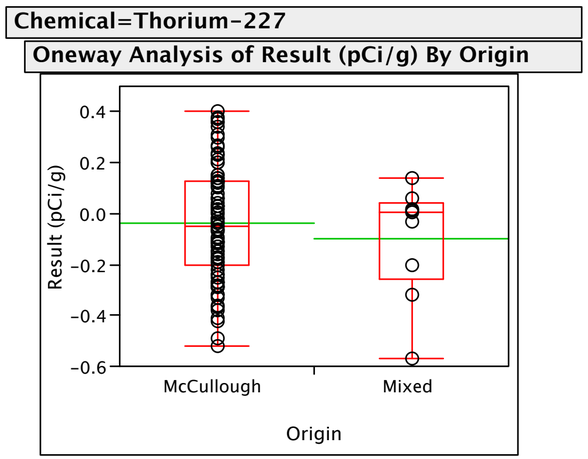


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







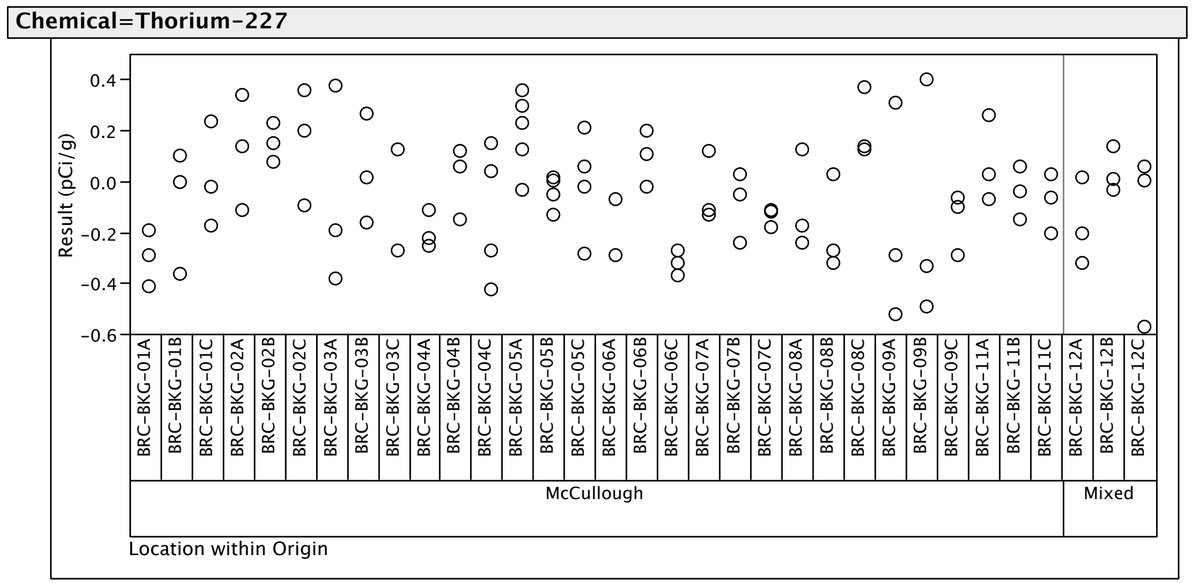
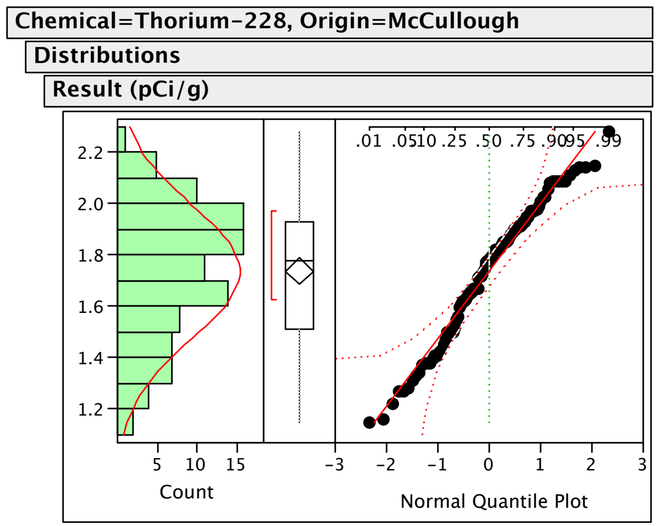
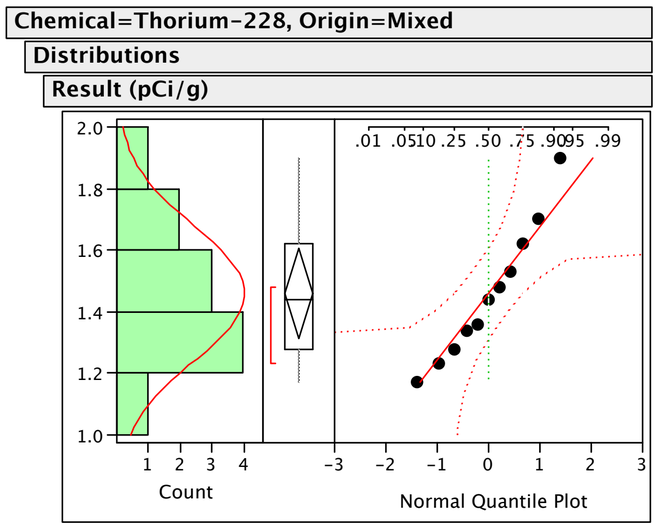
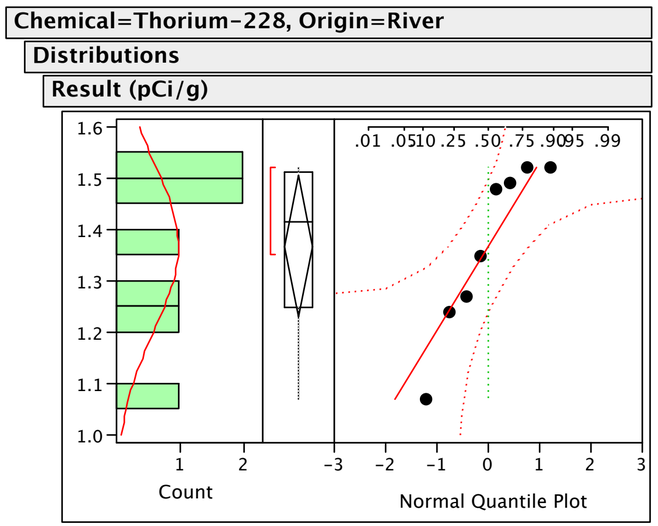


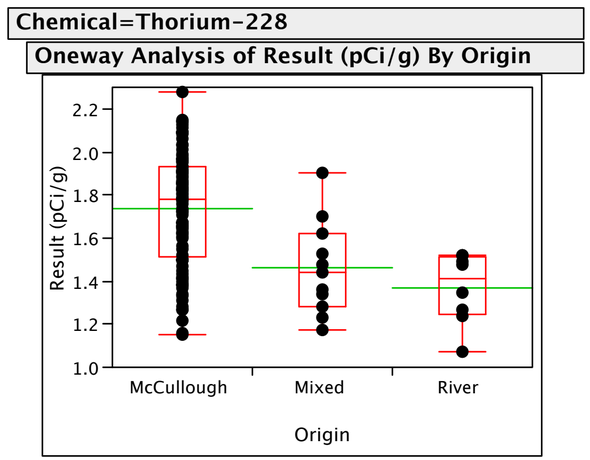
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









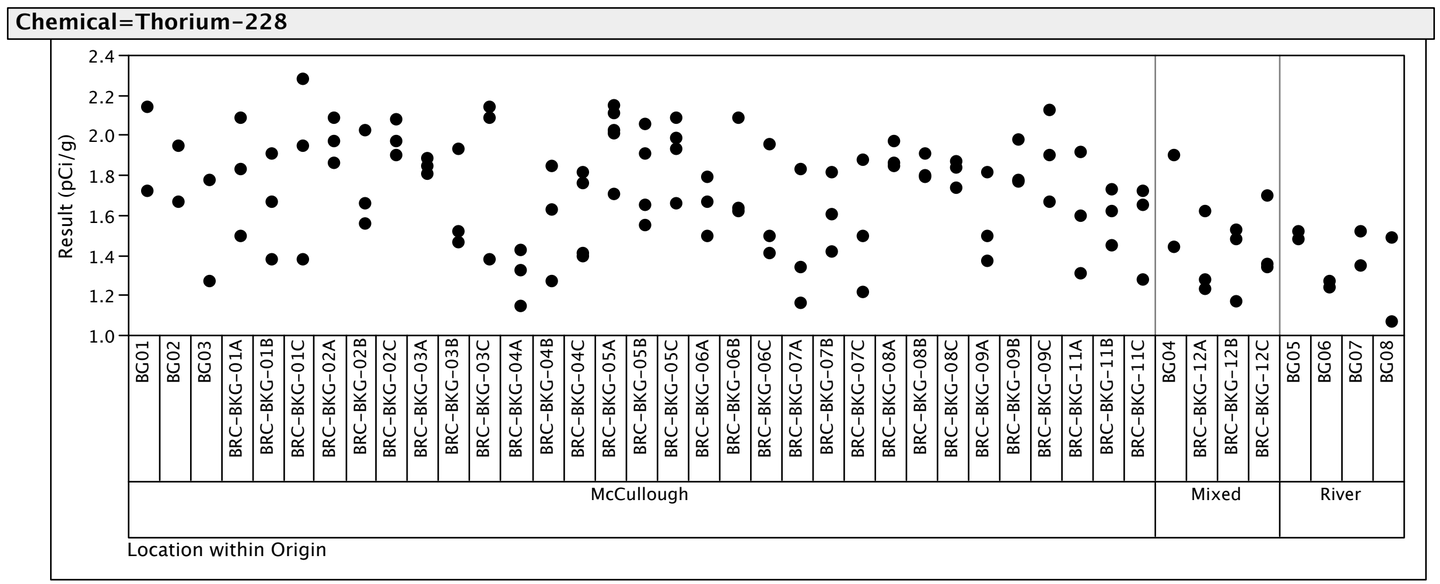
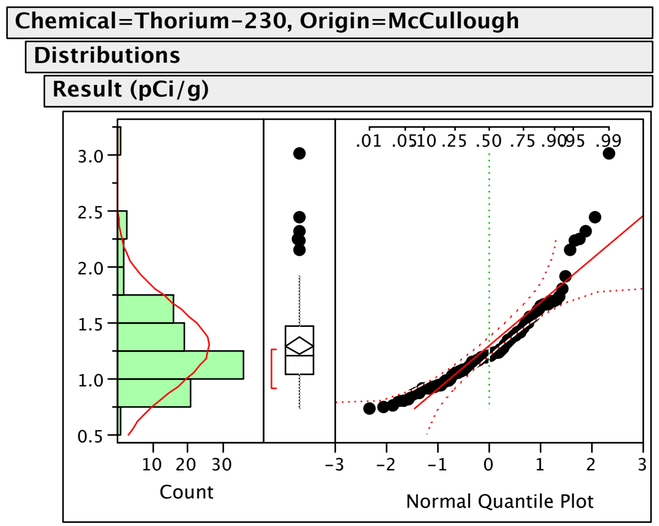
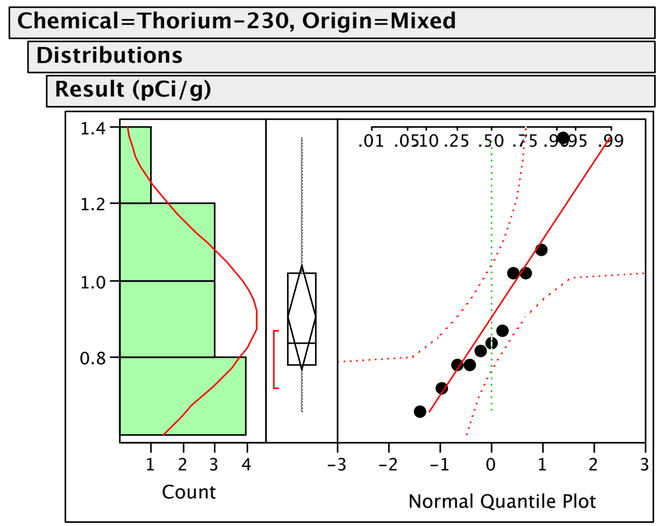
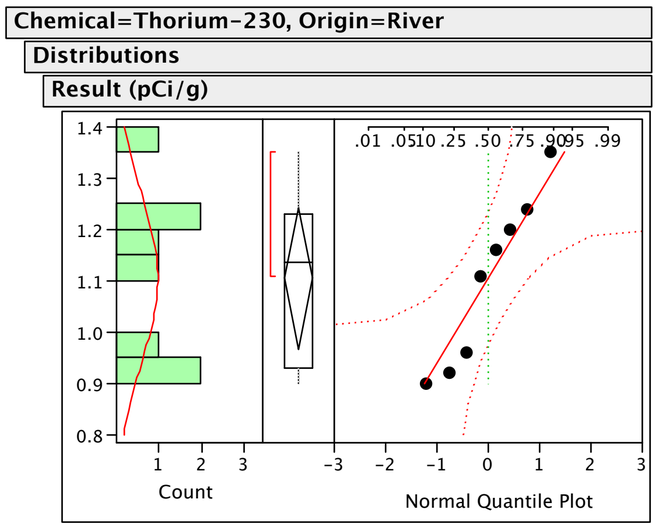


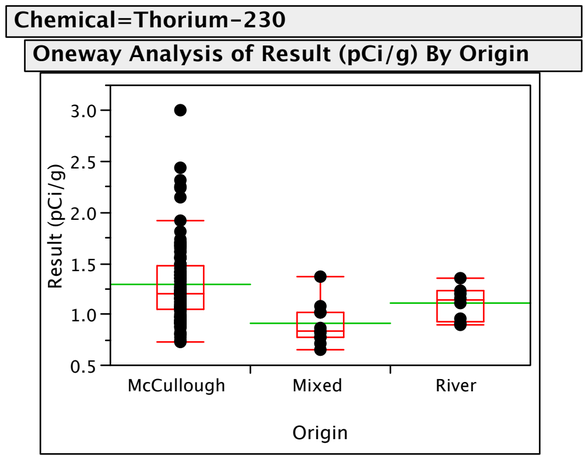
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









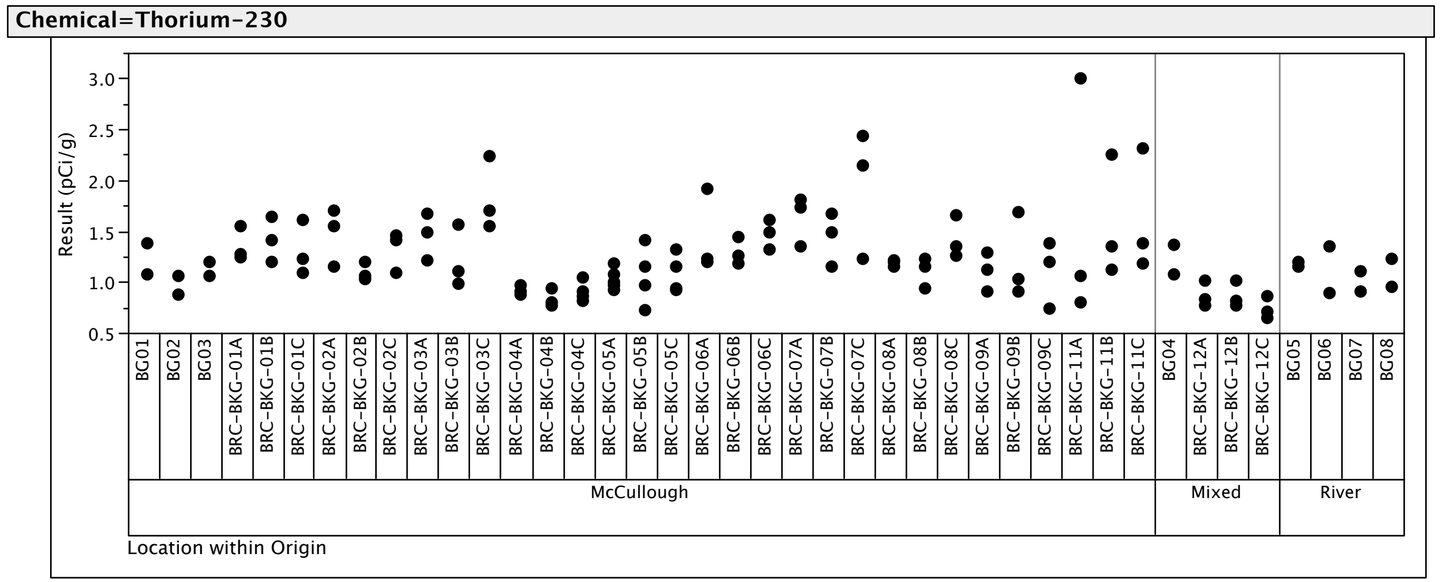
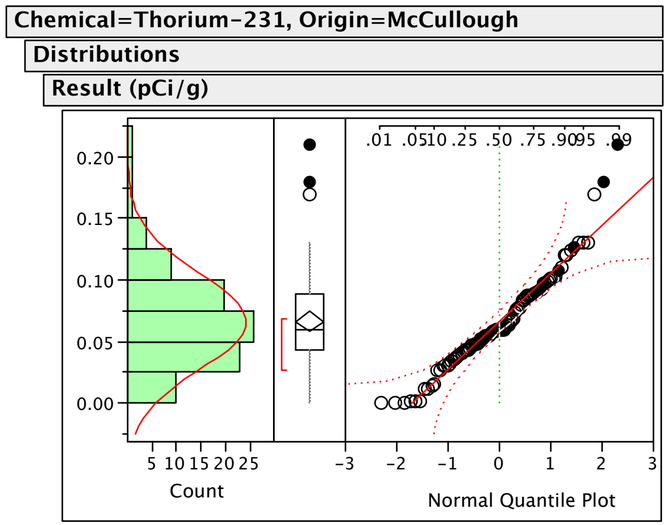
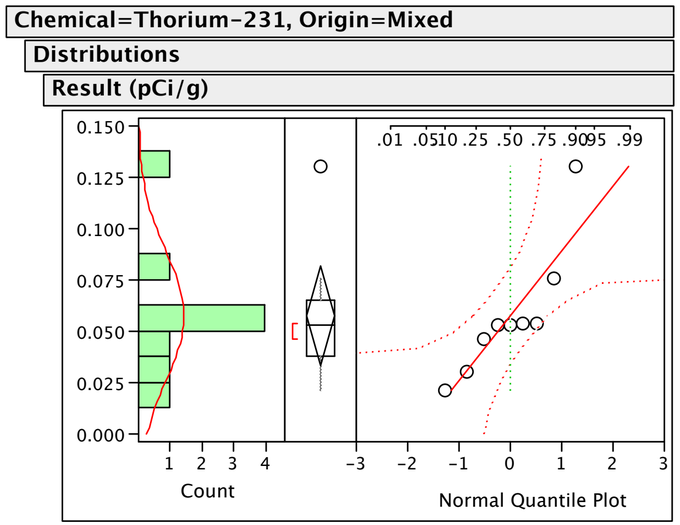
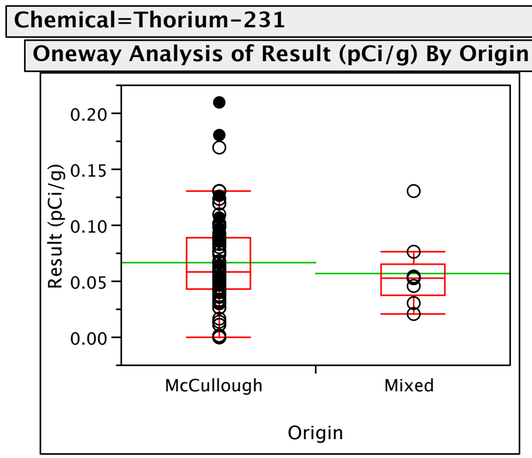


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







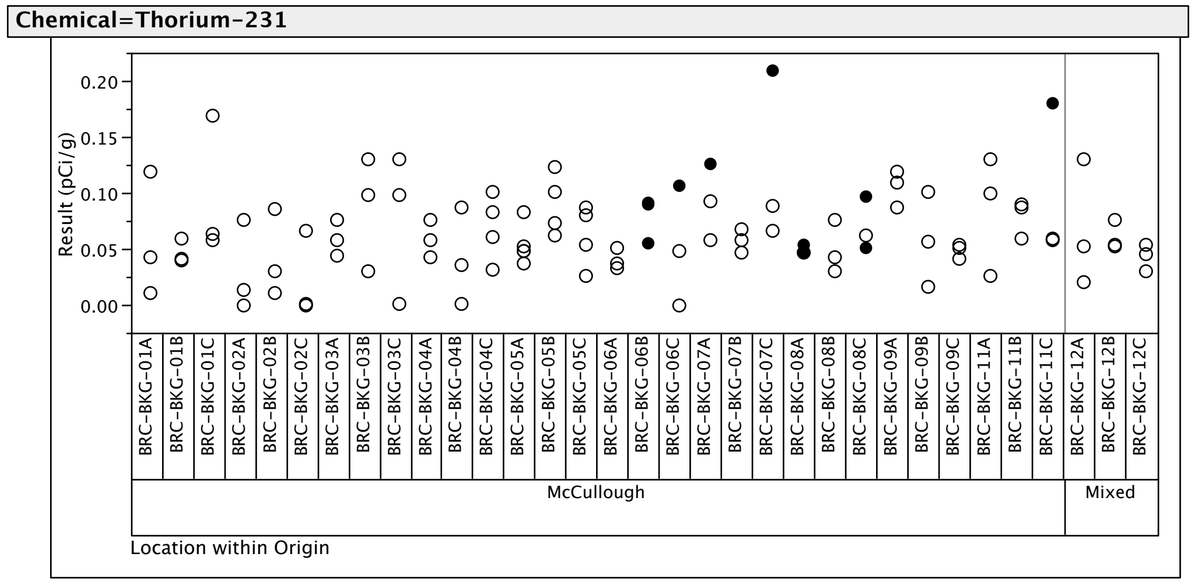
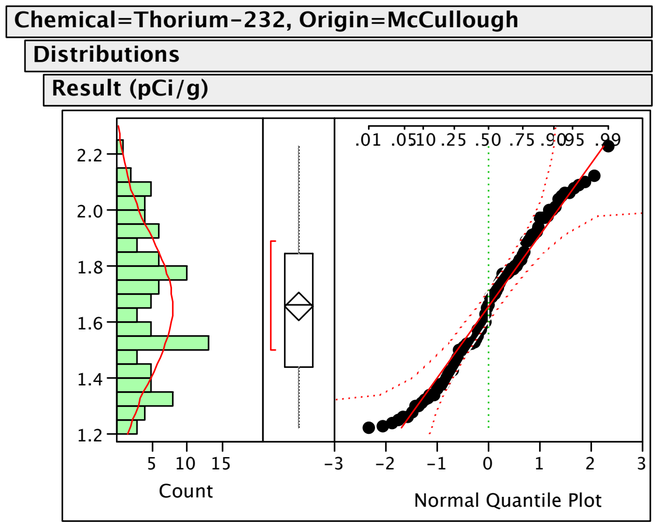
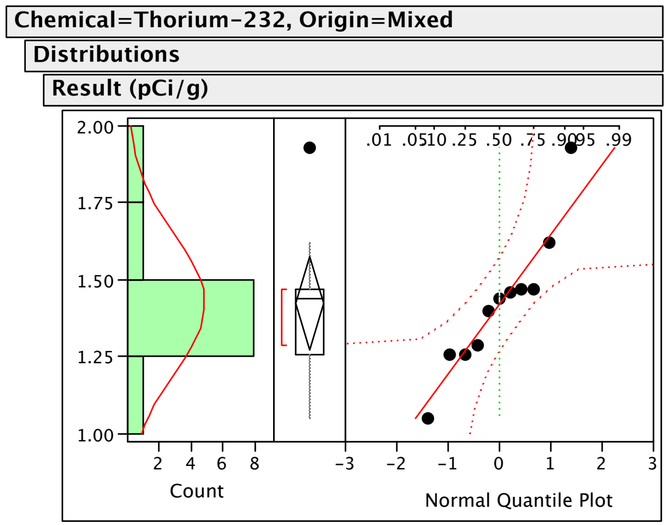
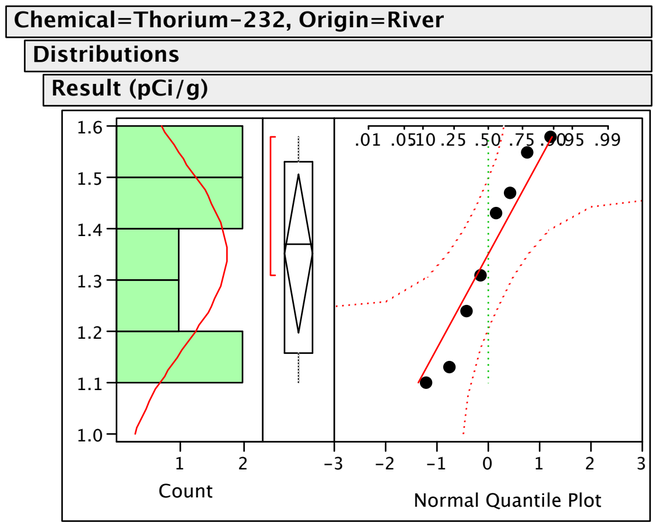


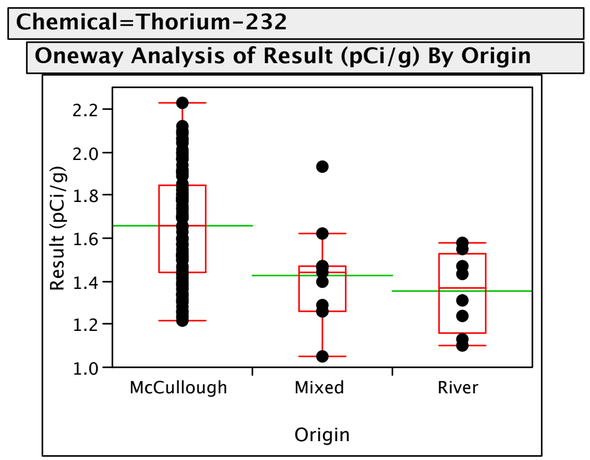
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









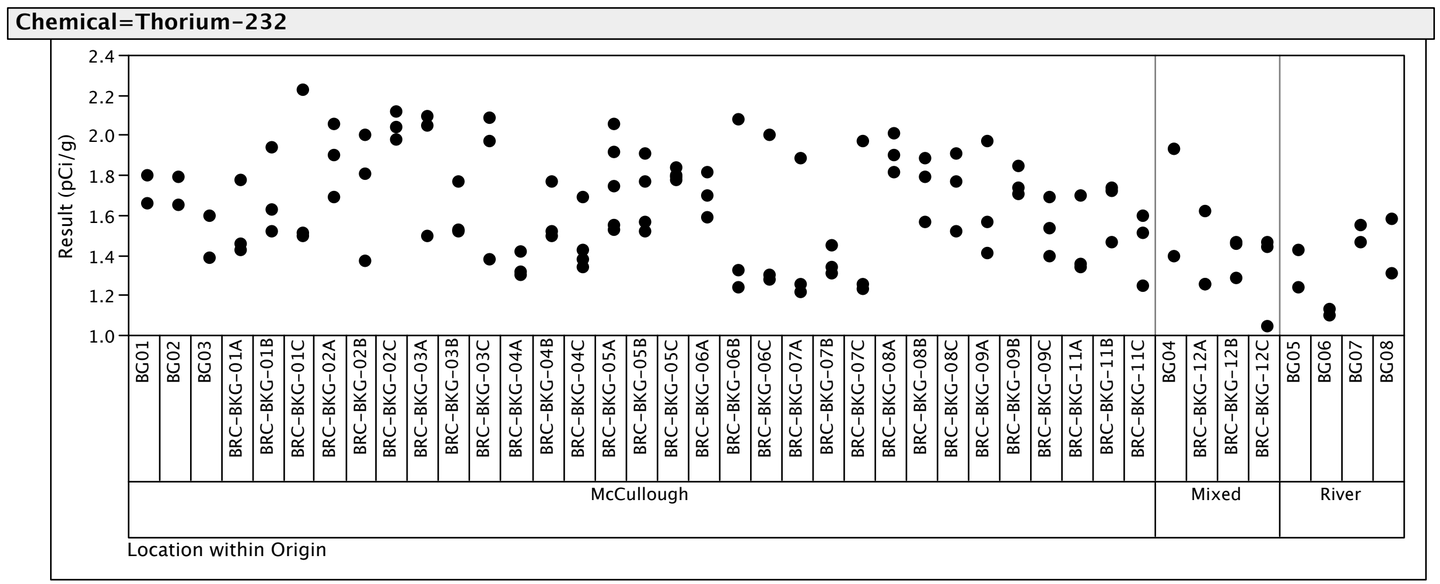
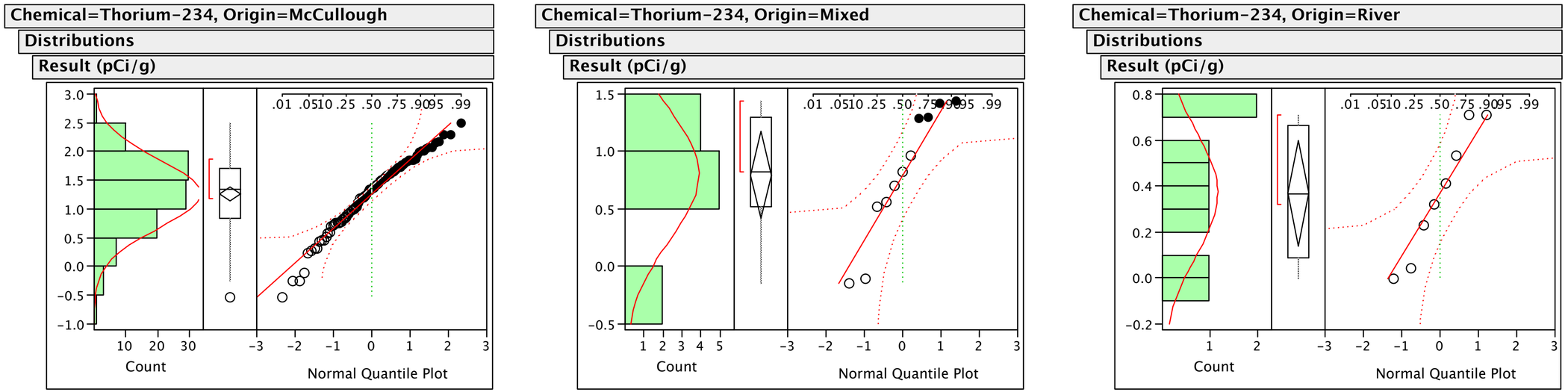
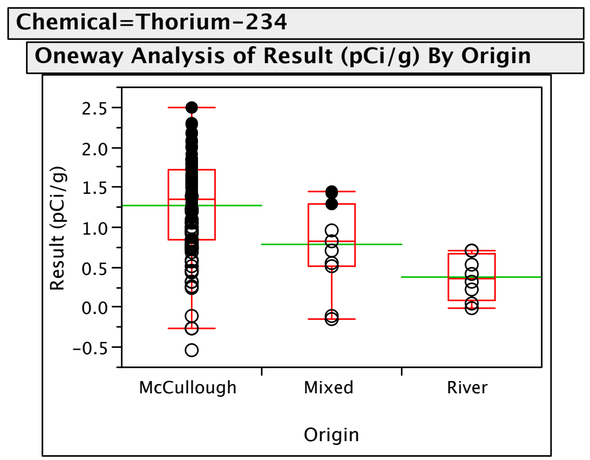


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





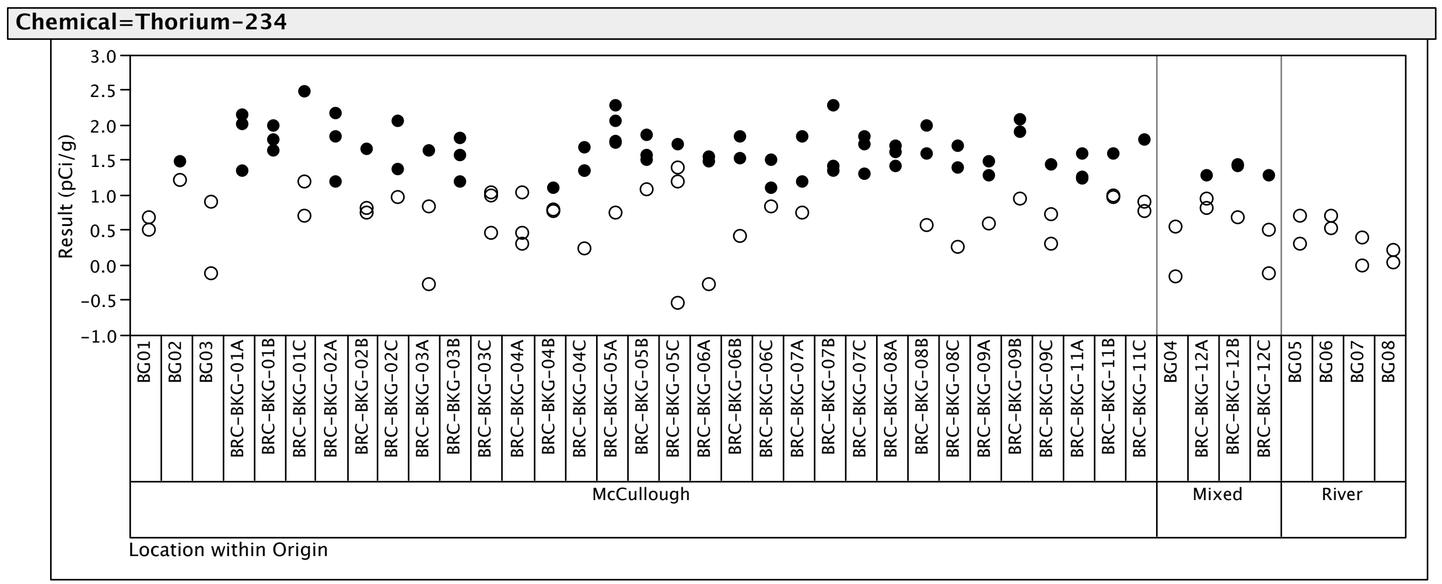
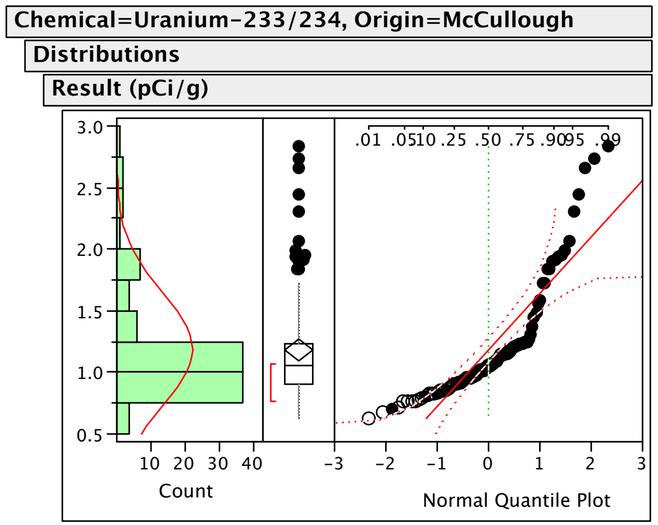
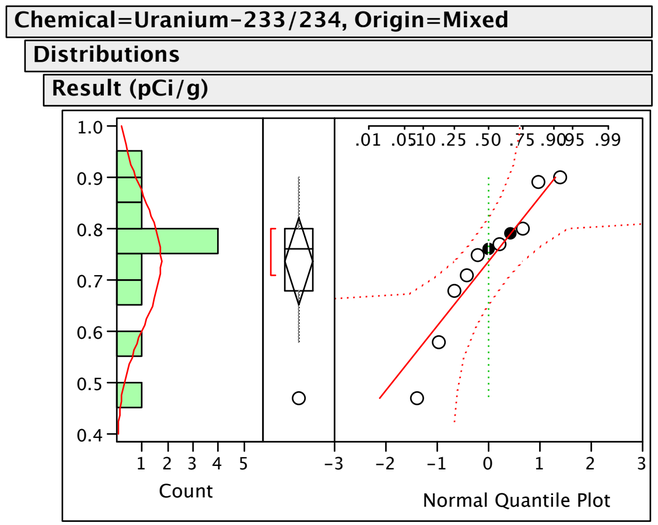
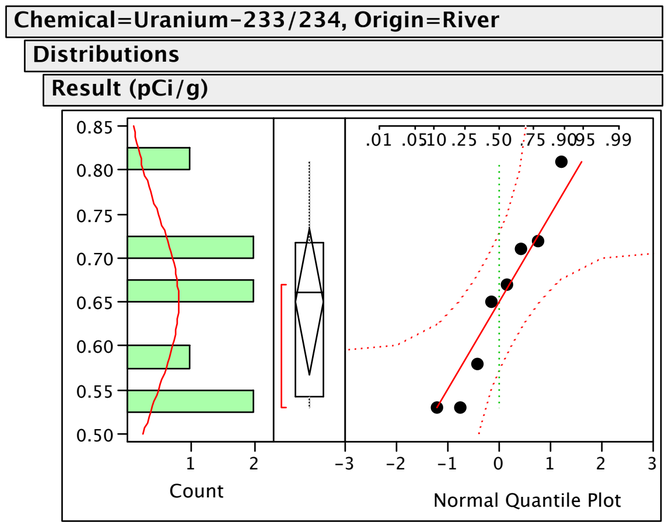


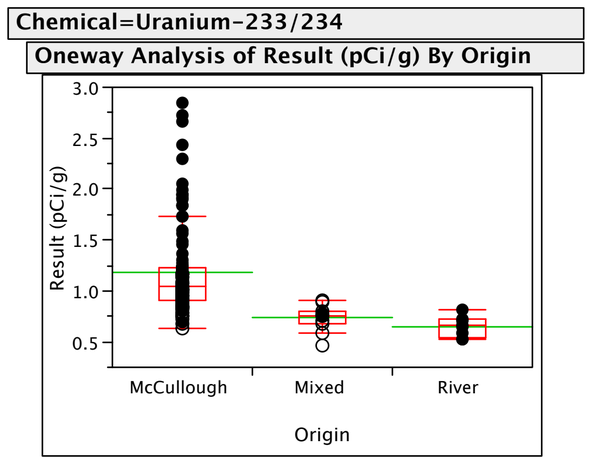
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









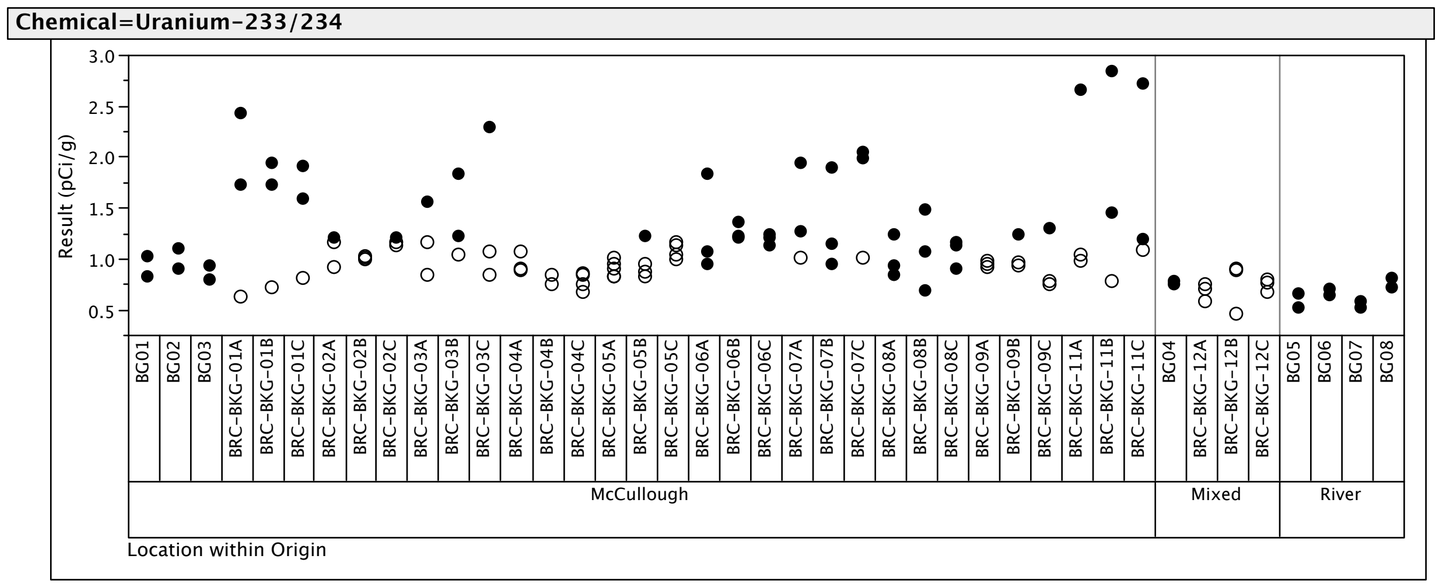
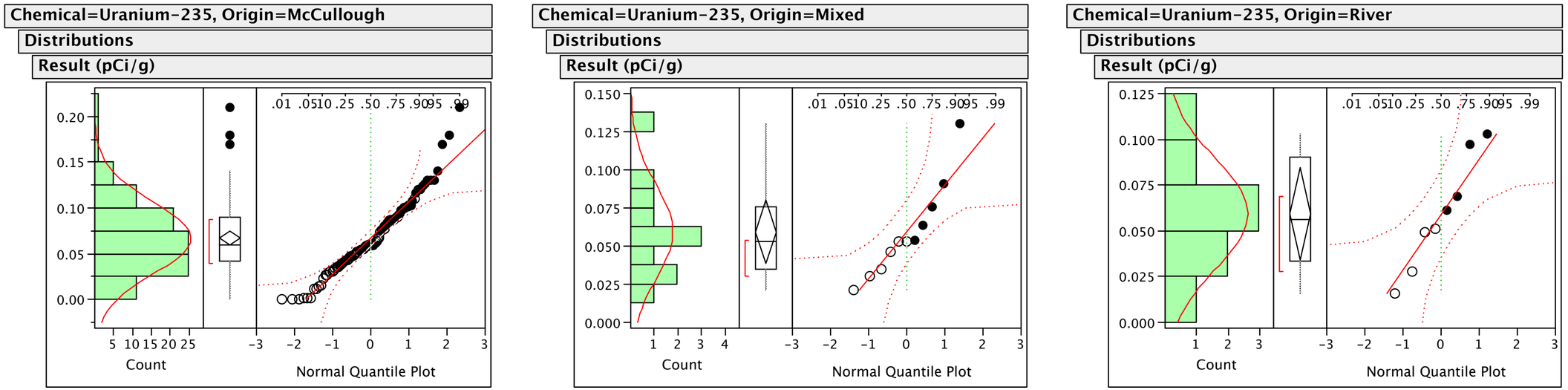
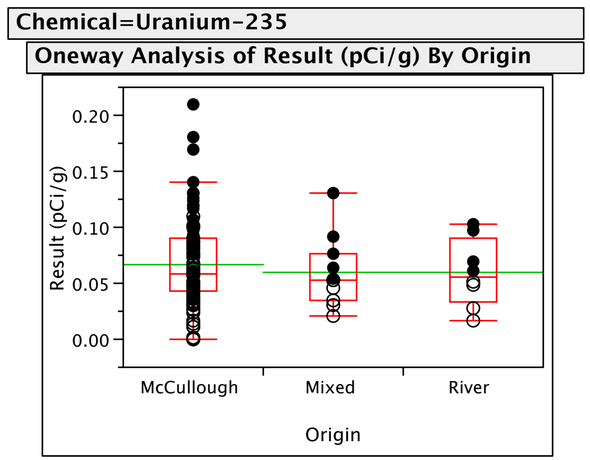


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





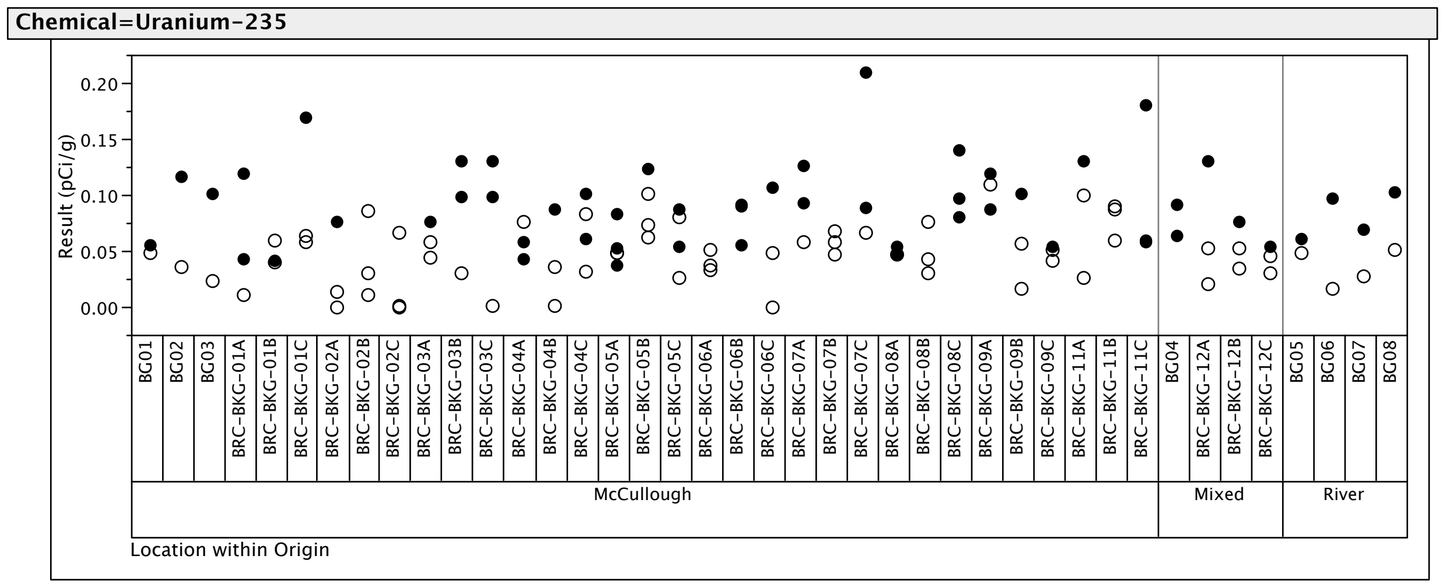
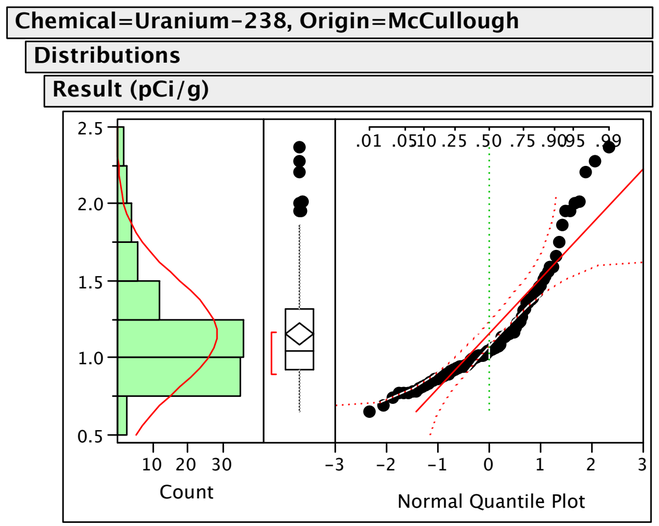
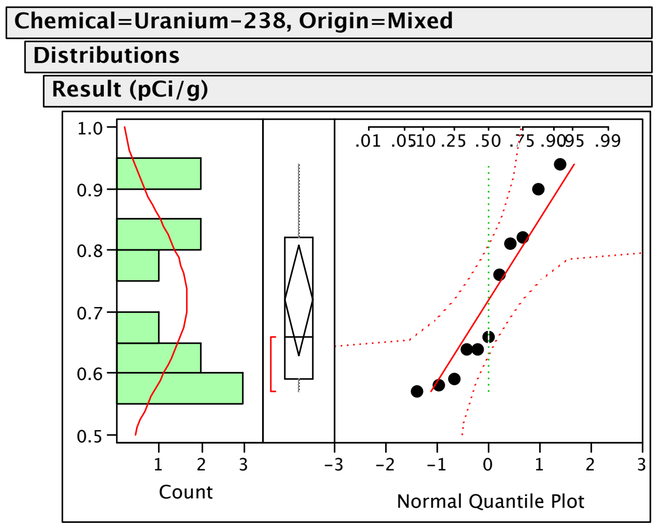
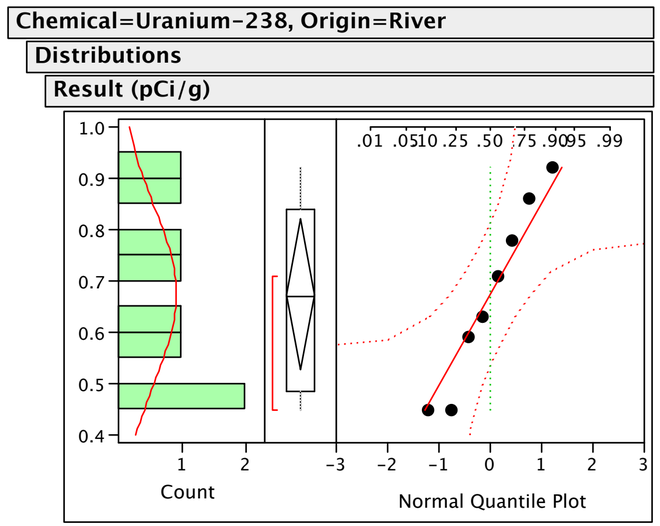
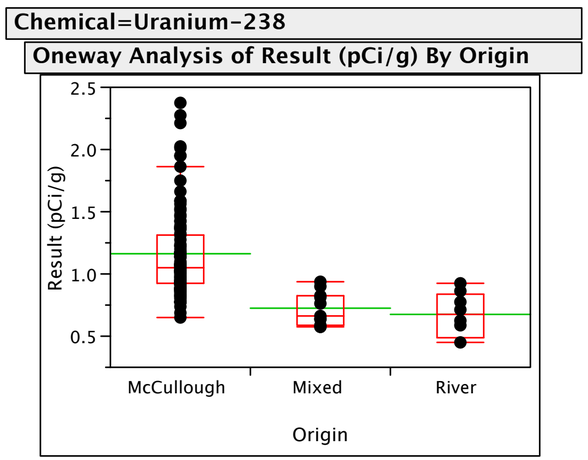
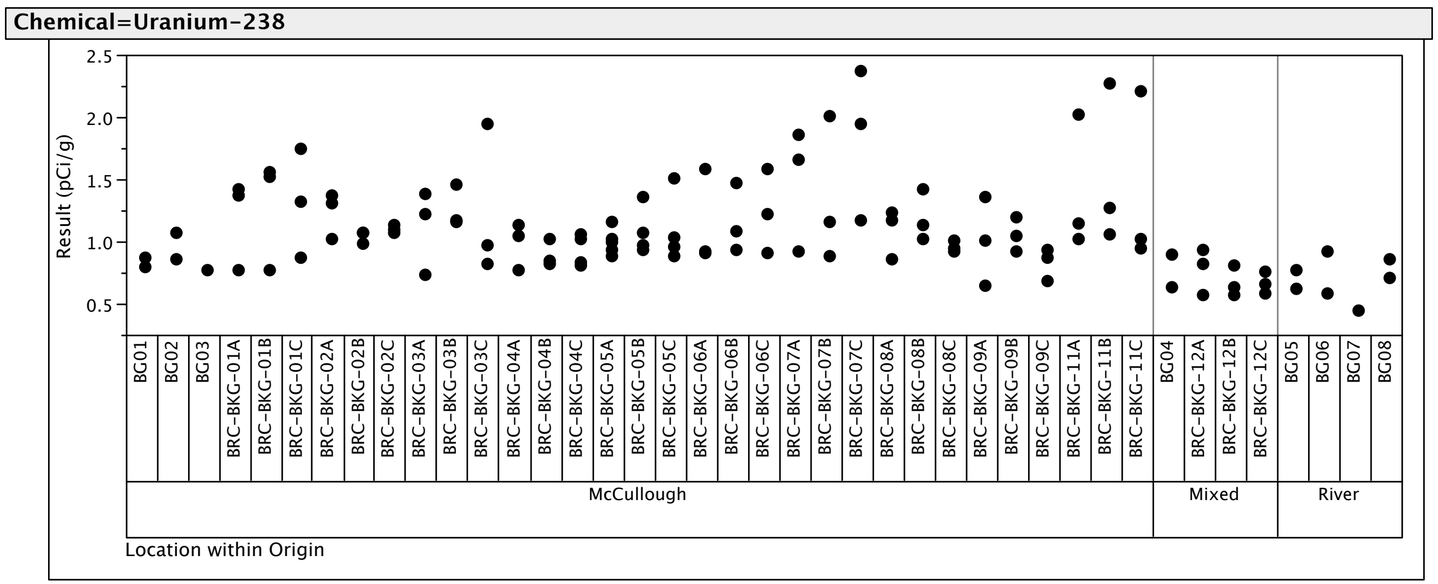


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN