Basic Remediation
COMPANY

TECHNICAL MEMORANDUM

To: Brian Rakvica (NDEP)

From: Ranajit Sahu (BRC)

cc: Jim Najima (NDEP)
Mark Jones (ERM)
Teri Copeland
Joanne Otani Fehling
Paul Black (Neptune and Co.)

Date: December 3, 2008

Subject: Technical Memorandum – Data Review and Health Risk Assessment for the Utility Corridor Sub-Area, BMI Common Areas (Eastside), Clark County, Nevada

Introduction

This Technical Memorandum presents the results of an investigation and health risk assessment Basic Remediation Company (BRC) performed for the Utility Corridor Sub-Area of the Basic Management, Inc. (BMI) Common Areas (Eastside) in Clark County, Nevada. The Utility Corridor Sub-Area will be referred to as the Site for the purposes of this Technical Memorandum. Figure 1 shows the location of the Site within the Eastide property.

The BMI Common Areas and Complex are located in Clark County, Nevada, and are situated approximately two miles west of the River Mountains and one mile north of the McCullough Range. 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 north toward 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* (NBMG 1980), the River Mountains and McCullough Range consist of volcanic rocks: dacite in the River Mountains and andesite in the McCullough Range.

The Site, consisting of a 50-foot wide ditch, passes through the Southern RIBs, First Eight Rows, Spray Wheel, and Upper Ponds sub-areas of the Eastside Area. As noted in the the *BRC Closure Plan* (BRC, ERM, and DBSA 2007), all of the Eastside sub-areas are planned for redevelopment according to a mixed-use master plan, which will include above- and below-ground utilities

(potable water, sewerlines, power, gas), roadways, trails, parks, homes, schools, shops, and municipal buildings. The Site includes the length of the sewer alignment excavation north of Parcel 4B until it meets up with the tie-in location at the City of Henderson Water Reclamation Facility (WRF) at the northern boundary of the Upper Ponds sub-area (see Figure 1).

The purpose of this Technical Memorandum is to request a No Further Action Determination (NFAD) by the Nevada Division of Environmental Protection (NDEP) in order to facilitate the installation of a new 48-inch sewer line along this alignment. The alignment was excavated to varying depths, at first, based on visual indications of contamination (*i.e.*, discolored soils). Confirmation samples were then collected from the post-excavated alignment. Subsequently, additional soils were also removed, in targeted areas, based on confirmation sampling. The current analysis uses data based on the most recent post-excavation, confirmation sample results. It does not use any historical (*i.e.*, associated with excavated soils) data within the footprint of the excavation since these are no longer considered 'existing' data.

The sampling was conducted in accordance to the NDEP-approved *Sewer Alignment Excavation Soil Sampling and Analysis Plan* (SAP; BRC 2008). The Site investigation involved collection of soil matrix samples placed along the entire length of the sewer alignment excavation. Samples were collected every 100 feet within the southern portion of the excavation, through the Southern RIBs and First Eight Rows sub-areas; and every 200 feet along the Beta Ditch and through the Spray Wheel and Upper Ponds sub-areas. This provides enough samples for completion of a statistically robust dataset upon which to perform a health risk assessment. A site map, showing the sample locations, is provided on Figure 2.

Samples that were collected were depth-discrete soil matrix samples. Specifically, the objective of the sampling was to support the request for an NFAD for this Site, via a health risk assessment for the exposure scenarios discussed below. Therefore, this technical memorandum includes the following primary tasks:

- Conceptual site model (CSM);
- Data usability evaluation;
- Summary of data, including evaluation to comparison levels;
- Health risk assessment, including statistical comparison to background concentrations; and
- Data adequacy evaluation.

Each of these tasks is discussed below.

Conceptual Site Model

The CSM is used to describe relationships between chemicals and potentially exposed human receptor populations, thereby delineating the relationships between the suspected sources of chemicals identified at the Site, the mechanisms by which the chemicals might be released and transported in the environment, and the means by which the receptors could come in contact with the chemicals. The CSM provides a basis for defining data quality objectives and developing exposure scenarios.

Site Description

The Site is a linear feature that is approximately 7,300 feet in length, 50 feet across, running north-south, and comprised of approximately 8.4 acres (Figure 1). It consists of undeveloped land with very little surface relief that is gently sloping to the northwest. It crosses through the waste conveyance and disposal ponds historically operated by the BMI Complex, including the Beta Ditch and Upper Ponds. Land use in the vicinity is mixed, ranging from industrial in the BMI Complex to light industrial at the margins of the Complex to commercial and residential on the periphery of the Eastside property. Lands surrounding the Eastside property are zoned commercial and residential, and are mostly developed.

Summary of Existing Data

Most of the environmental investigations conducted at the Eastside property have focused on the adjacent operating facilities and Upper Ponds and Ditches areas of the BMI Common Areas, including some data that have been collected from within the Site in support of those efforts. Only five soil samples from historical sampling events are located within the Site. These sample locations are all associated with the BMI Common Areas Environmental Conditions Investigation (ECI) conducted during March and April 1996 (Dataset 1a; ERM 1996). These sample locations include discrete samples collected from two locations along the Beta Ditch (sample locations BDB-16 and BDB-17) and composite samples from three ponds (PUA-9, PUB-10, and PUC-8). Soil samples from these locations were collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), metals, perchlorate, and/or radionuclides.

Although elevated concentrations of several of these compounds were detected in these soil samples, not unexpected given they were collected from known contaminated ponds and ditch, as discussed above, excavation of the sewer alignment consisted of the removal and stockpiling

of soil from the entire length of the sewer alignment to a depth of approximately four feet below ground surface and 50 feet across. Therefore, historical surface soil data within the footprint of the excavation are no longer considered 'existing' data. In addition, many of the previous samples were composite sampling, all soil samples were collected over 10 years ago, and not all of the previous samples have been analyzed for all of the major chemicals or chemical families and several used different analytical methods. Therefore, because of these factors, and because the current investigation results are considered representative of current site conditions, previous results are not evaluated further in this Technical Memorandum. The historical results are provided in Attachment A.

Potential Human Exposure Scenarios

The CSM considers current and potential future land-use conditions. Currently, the Site is undeveloped. Current receptors that may use the Site include on-site trespassers. Therefore, current exposures to native soils at the Site are likely to be minimal. In addition, exposures to future receptors will be much greater than current exposures. For example, future receptors include potential workers who are assumed to be exposed to soil at the Site for 225 days per year for 25 years which is much greater than any current exposures.

U.S. Environmental Protection Agency (USEPA; 1989) guidance states that potential future land use should be considered in addition to current land use when evaluating the potential for human exposure at a site. Therefore, the CSM also considers other future land-uses. For example, because the Site will be an infrastructure easement in support of future development of the Eastside, the CSM includes construction workers (sewer installation) and future maintenance workers (repair and upkeep of the infrastructure). Potential migration pathways, exposure pathways, and routes of exposure are shown on Figure 3. It is important to note that the entire Site is beneath future roadways under the prospective redevelopment plan. This, therefore, precludes potential exposures to future residential receptors to Site soils. The current development plan for the Site is shown on Figure 4.

Although several potential human receptors may occur on the Site in the future, the health risk assessment focuses on the future potential maintenance worker and construction worker receptors. These receptors are considered to have the highest level of exposure at the Site, as supported by the projected land use (infrastructure easement and sewer installation). Other receptors generally have lower exposures, and thus lower risk estimates. Therefore, risk estimates generated for the worker receptors will be protective of other potential receptors at the Site.

Data Usability Evaluation

The primary objective of the data review and usability evaluation was to identify appropriate data for use in the health risk assessment. The analytical data were reviewed for applicability and usability following procedures in the *Guidance for Data Usability in Risk Assessment (Part A)* (USEPA 1992a) and USEPA (1989) and NDEP's *Data Usability Guidance for the BMI Complex and Common Areas* (NDEP 2008). A quality assurance/quality control (QA/QC) review of the analytical results was conducted during the sampling events. According to the USEPA Data Usability Guidance, there are six principal evaluation criteria by which data are judged for usability in risk assessment. The six criteria are:

- reports to risk assessor (availability of information associated with site data)
- documentation;
- data sources;
- analytical methods and detection limits;
- data review; and
- data quality indicators, including precision, accuracy, representativeness, comparability, and completeness.

A summary of these six criteria for determining data usability is provided below. Data usability evaluation tables are provided electronically in Attachment B.

<u>Criterion I – Reports to Risk Assessor (Availability of Information Associated with Site Data)</u>

The usability analysis of the site characterization data requires the availability of sufficient data for review. The required information is available from documentation associated with the site data and data collection efforts. Data have been validated per the NDEP-approved *Data Validation Summary Report, Sewer Alignment Excavation Soil Investigation, April and August 2008 (Dataset 50)* (DVSR; BRC and ERM 2008). The following lists the information sources and the availability of such information for the data usability process:

- A Site description provided in this Technical Memorandum and the NDEP-approved SAP (BRC 2008) identifies the location and features of the Site, the characteristics of the vicinity, and contaminant transport mechanisms.
- A site map with sample locations is provided in Figure 2.

- Sampling design and procedures were provided in the NDEP-approved SAP (BRC 2008).
- Analytical methods and detection limits are provided in Attachment A.
- A complete dataset is provided in Attachment A.
- A narrative of qualified data is provided with each analytical data package, the laboratory provided a narrative of QA/QC procedures and results. These narratives are included as part of the DVSR (BRC and ERM 2008).
- QC results are provided by the laboratory, including blanks, replicates, and spikes. The laboratory QC results are included as part of the DVSR (BRC and ERM 2008).
- Data flags used by the laboratory were defined adequately
- Electronic files containing the raw data made available by the laboratory are included as part of the DVSR (BRC and ERM 2008).

Criterion II – Documentation Review

The objective of the documentation review is to confirm that the analytical results provided are associated with a specific sample location and collection procedure, using available documentation. For the purposes of this data usability analysis, the chain-of-custody forms prepared in the field were reviewed and compared to the analytical data results provided by the laboratory to ensure completeness of the dataset. Based on the documentation review, all samples analyzed by the laboratory were correlated to the correct geographic location at the Site. Field procedures included documentation of sample times, dates and locations, other sample specific information such as sample depth were also recorded. Information from field forms generated during sample collection activities was imported into the project database.

The analytical data were reported in a format that provides adequate information for evaluation, including appropriate quality control measures and acceptance criteria. Each laboratory report describes the analytical method used, provides results on a sample by sample basis along with sample specific detection limits, and provides the results of appropriate quality control samples such as laboratory control spike samples, sample surrogates and internal standards (organic analyses only), and matrix spike samples. All laboratory reports, except for asbestos, provided the documentation required by USEPA's Contract Laboratory Program (USEPA 2003a, 2004a,b) which includes chain of custody records, calibration data, QC results for blanks, duplicates, and

spike samples from the field and laboratory, and all supporting raw data generated during sample analysis. Reported sample analysis results were imported into the project database.

The recommended method for providing asbestos data which are useful for risk assessment purposes was performed by EMSL Analytical Inc in Westmont, New Jersey. This laboratory is not currently certified in the State of Nevada, but has California and national accreditation for asbestos analysis.

To interpret measurements of asbestos in soils, it is necessary to establish the relationship between the asbestos concentrations observed in soils and concentrations that will occur in air when such soil is disturbed by natural or anthropogenic forces. This is because asbestos is a hazard when inhaled (see, for example, Berman and Crump 2001; USEPA 2003b). In fact, the Modified Elutriator Method (Berman and Kolk 2000), which was the method employed to perform the analyses presented in this report, was designed specifically to facilitate prediction of airborne asbestos exposures based on bulk measurements (see, for example, Berman and Chatfield 1990).

The Modified Elutriator Method incorporates collection of samples that are re-suspended and then forced through an airway and filter. Asbestos structures are isolated and concentrated of as part of the respirable dust fraction of a sample and analytical measurements are reported as the number of asbestos structures per mass of respirable dust in the sample. These are precisely the dimensions required to combine such measurements with published dust emission and dispersion models to convert them to asbestos emission and dispersion estimates. Thus, because published dust emission and dispersion models can be used to address many of the exposure pathways of interest in this study, these can be combined with measurements from the Modified Elutriator Method to predict airborne exposures and assess the attendant risks.

Criterion III –Data Sources

The review of data sources is performed to determine whether the analytical techniques used in the site characterization process are appropriate for risk assessment purposes. The data collection activities were developed to characterize a broad spectrum of chemicals potentially present on the Site, including asbestos, aldehydes, general chemistry/ions, VOCs, SVOCs, metals, dioxins/furans, polynuclear aromatic hydrocarbons (PAHs), organochlorine pesticides, radionuclides, and PCBs. As discussed above in the Summary of Existing Data section, historical data collected from the Site are not evaluated further in this data review, or the health risk assessment.

The State of Nevada is in the process of certifying the laboratories used to generate the analytical data. As such, standards of practice in these laboratories follow the quality program developed by the Nevada Revised Statutes (NRS) and are within the guidelines of the analytical methodologies established by the USEPA. Based on the review of the available information, the data sources for chemical and physical parameter measurements are adequate for use in a risk assessment.

Criterion IV – Analytical Methods and Detection Limits

In addition to the appropriateness of the analytical techniques evaluated as part of Criterion III, it is necessary to evaluate whether the detection limits are low enough to allow adequate characterization of risks. At a minimum, this data usability criterion can be met through the determination that routine USEPA reference analytical methods were used in analyzing samples collected from the Site. Attachment A identifies the USEPA methods that were used in conducting the laboratory analysis of soil samples. Each of the identified USEPA methods is considered the most appropriate method for the respective constituent class and each was approved by NDEP as part of the SAP (BRC 2008).

Laboratory reporting limits were based on those outlined in the reference method, the SAP, and the project QAPP (BRC, ERM and MWH 2008). In accordance with respective laboratory standard operating procedures (SOPs), the analytical processes included performing instrument calibration, laboratory method blanks, and other verification standards used to ensure quality control during the analyses of collected samples.

The range of detection limits achieved in field samples was compared to USEPA Region 6 soil medium-specific screening levels (MSSLs; USEPA 2007). No chemicals had report detection limits (RDLs) that exceeded their respective MSSLs. Several chemicals had RDLs above USEPA (2007) soil screening levels (SSLs); however, given the discussion provided below in the Data Summary section, migration of chemicals at the Site to groundwater is considered unlikely. Therefore, the detection limits are considered adequate for risk assessment purposes.

Criterion V – Data Review

The data review portion of the data usability process focuses primarily of the quality of the analytical data received from the laboratory. Soil sample data were subject to data validation. A DVSR was prepared as a separate deliverable (BRC and ERM 2008). The analytical data were validated according to the internal procedures using the principles of USEPA National Functional Guidelines (USEPA 1999, 2001a, 2002a, 2004a,b) and were designed to ensure

completeness and adequacy of the dataset. Any analytical errors and/or limitations in the data have been addressed and an explanation for data qualification provided in the respective data tables. The results of ERM's data review for these issues are presented in the DVSR and are summarized below.

Although certain laboratory limits, such as percent recovery (PR) and relative percent difference (RPD) between sample and duplicate, were exceeded for certain compounds or analyses, as identified by the laboratory (and confirmed during ERM's review of the data), there does not appear to be a wide-spread effect on the quality of the analytical results. Furthermore, based on a review of the laboratory narratives (provided in the laboratory reports in the DVSR), the laboratory does not believe that the observed exceedances of laboratory criteria represent a concern.

For 2,598 out of 19,378 analytical results, quality criteria were not met and various data qualifiers were added to indicate limitations and/or bias in the data. The definitions for the data qualifiers, or data validation flags, used during validation are those defined in SOP-40 (BRC, ERM and MWH 2007) and the project QAPP (BRC, ERM and MWH 2008). Sample results were rejected based on findings of serious deficiencies in the ability to properly collect or analyze the sample and meet QC criteria. Only rejected data were considered unusable for decision-making purposes and rejected analytical results are not used in the health risk assessment. Only four samples, three of which were hexavalent chromium in rinsate samples, and one cyanide soil sample (at sample location SAE-39), were rejected in the Site dataset.

Sample results qualified as estimated were affected by special circumstances and are likely to be quantitatively biased to some degree; estimated analytical results are used in the health risk assessment. Data qualified as anomalous represents an analyte or compound that was not detected above the sample quantitative limit and such data are used in the health risk assessment. These data usability decisions follow the guidelines provided in the *Guidance for Data Usability in Risk Assessment (Part A)* (USEPA 1992a).

<u>Criterion VI – Data Quality Indicators</u>

Data quality indicators (DQIs) are used to verify that sampling and analytical systems used in support of project activities are in control and the quality of the data generated for this project is appropriate for making decisions affecting future activities. The DQIs address the field and analytical data quality aspects as they affect uncertainties in the data collected for site characterization and risk assessment. The DQIs include precision, accuracy, representativeness,

comparability, and completeness (PARCC). The project QAPP provides the definitions and specific criteria for assessing DQIs using field and laboratory QC samples and is the basis for determining the overall quality of the dataset. Data validation activities included the evaluation of PARCC parameters, and all data not meeting the established PARCC criteria were qualified during the validation process using the guidelines presented in the National Functional Guidelines for Laboratory Data Review, Organics and Inorganics and Dioxin/Furans (USEPA 1999, 2004c, 2005).

Precision is a measure of the degree of agreement between replicate measurements of the same source or sample. Precision is expressed by RPD between replicate measurements. Replicate measurements can be made on the same sample or on two samples from the same source. Precision is generally assessed using a subset of the measurements made. The precision of the data was evaluated using several laboratory QA/QC procedures. Based on ERM's review of the results of these procedures, there do not appear to be any wide-spread data usability issues associated with precision.

Accuracy measures the level of bias that an analytical method or measurement exhibits. To measure accuracy, a standard or reference material containing a known concentration is analyzed or measured and the result is compared to the known value. Several QC parameters are used to evaluate the accuracy of reported analytical results:

- Holding times and sample temperatures;
- LCS percent recovery;
- matrix spike/matrix spike duplicate (MS/MSD) percent recovery (organics);
- Spike sample recovery (inorganics)
- Surrogate spike recovery; and
- Blank sample results.

Detailed discussions of and tables with specific exceedances, with respect to precision and accuracy, are provided in the DVSR (BRC and ERM 2008).

Representativeness is the degree to which data accurately and precisely represent a characteristic of the population at a sampling point or an environmental condition (USEPA 2002a). There is no standard method or formula for evaluating representativeness, which is a qualitative term. Representativeness is achieved through selection of sampling locations that are appropriate

relative to the objective of the specific sampling task, and by collection of an adequate number of samples from the relevant types of locations. The sampling locations were based on both systematic sampling with random point placement within each grid cell, as well as focused samples collected from specific areas to further investigate potential areas. The samples were analyzed for a broad spectrum of chemical classes across the Site. Samples were delivered to the laboratory in coolers with ice to minimize the loss of analytes. At times the samples were analyzed beyond the holding time. Sample specific results are discussed in the DVSR.

Completeness is commonly expressed as a percentage of measurements that are valid and usable relative to the total number of measurements made. Analytical completeness is a measure of the number of overall accepted analytical results, including estimated values, compared to the total number of analytical results requested on samples submitted for analysis after review of the analytical data. Some of the data were eliminated due to data usability concerns. The percent completeness for the Site is 99.98 percent.

Comparability is a qualitative characteristic expressing the confidence with which one dataset can be compared with another. The desire for comparability is the basis for specifying the analytical methods; these methods are generally consistent with those used in previous investigations of the Site. The comparability goal is achieved through using standard techniques to collect and analyze representative samples and reporting analytical results in appropriate units. The ranges of sample results from the current investigation are comparable to recent results at the Eastside (for example, the Mohawk sub-area), as well as the site background datasets.

Data Summary

Initially, 67 samples were collected from 46 sample locations. Sample locations for this current investigation are shown on Figure 2. Results of the investigation are presented in Attachment A, and electronically on CD. As noted above, all data have been validated.

Following the first round of sampling, because of elevated levels of the following constituents at the surface soil locations listed below, surface soil was scraped and removed from around these locations.

Sample Location	Asbestos	SVOCs	Dioxins/Furans	Metals	Radionuclides
SAE-01	Chrysotile (9 fibers)				*e.g.*, Th-228 (6.4 pCi/g)
SAE-05	Chrysotile (9 fibers)				

Sample Location	Asbestos	SVOCs	Dioxins/Furans	Metals	Radionuclides
SAE-06	Chrysotile (8 fibers)				
SAE-07		Hexachlorobenz-ene (2 mg/kg)	TCDD TEQ (3,704 ppt)	Arsenic (34.5 mg/kg)	
SAE-09	Chrysotile (4 fibers)			Arsenic (28.7 mg/kg)	
SAE-11	Chrysotile (7 fibers)				
SAE-12	Chrysotile (7 fibers)				
SAE-13	Chrysotile (4 fibers)				
SAE-14		Hexachlorobenz-ene (1.4 mg/kg)		Arsenic (60.2 mg/kg)	*e.g.*, U-238 (4.67 pCi/g)
SAE-15				Arsenic (10.2 mg/kg)	
SAE-16	Chrysotile (5 fibers)		TCDD TEQ (1,760 ppt)	Arsenic (12.6 mg/kg)	
SAE-17	Chrysotile (5 fibers)			Arsenic (33.5 mg/kg)	
SAE-18	Chrysotile (8 fibers); Amphibole				
SAE-19	Amphibole (1 fiber)				
SAE-20	Chrysotile (14 fibers)				
SAE-21	Chrysotile (13 fibers); Amphibole				
SAE-23	Chrysotile (8 fibers); Amphibole				
SAE-24	Chrysotile (4 fibers); Amphibole				
SAE-42				Arsenic (48.1 mg/kg)	

The surface soil removal areas are shown on Figure 2. Post-scrape samples were collected and analyzed for target constituents that triggered the soil removal at each sample location. The original surface sample data from these locations were replaced with data from the confirmatory samples. A second round of surface soil removal was conducted at sample locations SAE-14R (arsenic [25.4 mg/kg]), SAE-15R (arsenic [32.5 mg/kg]), SAE-16R (arsenic [29.7 mg/kg] and dioxins/furans [1,374 ppt]), SAE-17R (arsenic [23.5 mg/kg]), and SAE-42R (arsenic [11.4 mg/kg]).[1] The original post-scrape surface sample data from these

[1] Note that additional soil removal is planned for sample SAE-8 due to chrysotile asbestos; however, this will occur at a later date due to access constraints.

locations were replaced with data from the confirmatory samples. All post-scrape data have been validated. Although soil removal would affect the concentrations of all analytes, confirmatory sampling only analyzed for the constituents that triggered the soil removal.[2] Therefore, in the absence of post-scrape data, the pre-scrape data are used for all other analytes in the remainder of this data summary and health risk assessment.

Using the compound-specific information presented in Table 2 of the QAPP (BRC, ERM and MWH 2008), the comparison levels for each chemical included in the investigation were compiled and compared. Specific soil comparison levels used for this effort were as follows:

- USEPA Region 6 outdoor worker soil MSSLs (USEPA 2007); and
- SSLs protective of groundwater assuming dilution attenuation factors (DAFs) of 1 and 20 (USEPA 2007).

A DAF of one is used when little or no dilution or attenuation of soil leachate concentrations is expected. Because the property is less than 30 acres, because of the depth to groundwater (ranging from approximately 17 feet bgs at the northern end of the Site to 60 feet bgs at the southern end of the Site, as indicated in the at-depth samples that were collected from the capillary fringe; see Appendix B for sample/capillary fringe depths) and the absence of fractured media or karst topography, consistent with USEPA (2002b) recommendations, SSLs using a DAF of 20 were also considered appropriate for comparison purposes for the Site. A summary of the data for the property, including identification of number of instances that chemical concentrations exceed each of the comparison levels are listed in Table 1 (pre-scrape data for the target constitents are not included, that is, these have been replaced by post-scrape data; however, pre-scrape data for the non-target constitents are included in Table 1), and summarized below.

Except as discussed below, there are no chemicals or instances where concentrations exceed USEPA Region 6 outdoor worker soil MSSLs. Although there are numerous instances where arsenic and radionuclides exceed USEPA Region 6 outdoor worker MSSLs, there are only a few instances where arsenic and radionuclides exceeded their respective 2005 shallow soil

---

[2] Note that for locations that were scraped and post-scrape data were collected for arsenic, laboratory analyses are pending for all other metals via Method 6020. Once this additional data is received it will replace the data currently being used in this Technical Memorandum. It is likely that concentrations of the other metals will follow a pattern consistent with arsenic, that is, the new data should be less than that measured in the pre-scrape data.

background levels (presented in the *Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity* [BRC and TIMET 2007]). These are evaluated further in the health risk assessment section of this Technical Memorandum.

For dioxins/furans, the USEPA toxicity equivalency procedure, developed to describe the cumulative toxicity of these compounds, is applied. This procedure involves assigning individual toxicity equivalency factors (TEFs) to the 2,3,7,8 substituted dioxin/furan congeners and PCB-congeners. TEFs are estimates of the toxicity of dioxin-like compounds relative to the toxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin (TCDD), which is assigned a TEF of 1.0. Calculating the toxic equivalent (TEQ) of a mixture involves multiplying the concentration of individual congeners by their respective TEF. One-half the detection limit is used for calculating the TEQ for individual congeners that are non-detect in a particular sample. The sum of the TEQ concentrations for the individual congeners is the TEQ concentration for the mixture (referred to as the TCDD TEQ).

TCDD TEQs were compared to the Agency for Toxic Substances and Disease Registry (ATSDR) action level of 1.0 parts per billion (ppb or 1,000 parts per trillion [ppt]; ATSDR 1997). The ATSDR action level is used to identify where potential health effects may be of concern at a site. There were no instances where TCDD TEQs exceeded this level.

As discussed above, depth to groundwater at the Site ranges from approximately 17 to 60 feet bgs. There are several instances where metals, radionuclides, beta-BHC, hexachlorobenzene, and dichloromethane exceed their respective USEPA SSLs. For the organic compounds (beta-BHC, hexachlorobenzene, and dichloromethane), most of these instances were in surface soil, with only two samples (one each of hexachlorobenzene and dichloromethane) collected at 10 feet bgs above the USEPA SSL. In the case of hexachlorobenzene (SAE-7), the concentration at 10 feet bgs was less than that measured at the surface (0.36 mg/kg versus 0.11 mg/kg); while for dichloromethane (SAE-22), the concentration at 10 feet bgs was greater than that measured at the surface (0.0031 mg/kg versus non-detect). The DAF of 1 for dichloromethane is extremely low (0.001 mg/kg) and is often exceeded by non-detects as well.

For metals, in most instances Site concentrations were consistent with background concentrations. There are only three instances were concentrations at 10 feet bgs that exceed USEPA SSLs are both greater than the concentration at the surface, and that exceed the maximum background concentration. These are arsenic (maximum background is 7.2 mg/kg) at SAE-38 (7.9 mg/kg at 10 feet bgs versus 3.7 mg/kg at the surface), barium (maximum background is 836 mg/kg) at SAE-15 (1,100 mg/kg at 10 feet bgs versus 757 mg/kg at the

surface), and nickel (maximum background is 30 mg/kg) at SAE-7 (32.9 mg/kg at 10 feet bgs versus 16.9 mg/kg at the surface). None of these are indicative of contaminants migrating with depth.

Given the discussion above, there is no indication that concentrations increase with depth, supporting the conclusion that currently the Site is not a likely source of impacts to groundwater. This is further supported by the low level of detected chemicals most associated with potential groundwater impacts (*e.g.*, VOCs, some organochlorine pesticides). In addition, as indicated previously, the Site will be entirely beneath a road surface, effectively serving as a 'cap' for the infiltration of water from the surface. Although various infrastructures will exist within the Site (for example, sewerline), which have the potential to leak and become a potential source of downward infiltration, this is considered of minimal likelihood, given current standards for sewer design and construction as well as the focus on leak prevention and associated water loss in Henderson. Therefore, potential impacts to groundwater, and subsequent groundwater exposures were not further evaluated. It should be noted that development of the Site will not preclude future groundwater investigation or remediation activities that may need to be conducted by BRC.

Health Risk Assessment

The comparison levels in the Data Summary section above do not take into account cumulative effects, nor do they consider all potential exposure pathways (for example, the construction dust inhalation pathway). Therefore, the purpose of the health risk assessment is to determine if chemical concentrations in Site soils are: (1) either representative of background conditions; or (2) do not pose an unacceptable risk to human health and the environment under current and anticipated future use conditions.

Human health risks are represented by estimated theoretical upper-bound cancer risks and non-cancer hazards derived in accordance with standard USEPA methods. The acceptable risk levels defined by USEPA for the protection of human health, and following those discussed previously with NDEP, are:

1. For non-carcinogenic compounds, the acceptable criterion is a cumulative hazard index (HI) of one or less. If the total HI is determined to be greater than 1.0, target organ-specific HIs will be calculated for primary and secondary organs. The final risk goal will be to achieve target organ-specific non-carcinogenic HIs of less than 1.0; and

2. For known or suspected chemical and radionuclide carcinogens, the acceptable ceiling for a cumulative incremental lifetime cancer risk (ILCR) ranges from 10^{-6} to 10^{-4}. The risk goal established by the NDEP is 10^{-6}.

3. Where background levels exceed risk level goals, metals and radionuclides in Site soils are targeted to have risks no greater than those associated with background conditions.

4. For lead, the target goal is 400 mg/kg, which is a soil concentration identified by USEPA (based on the Integrated Exposure Uptake Biokinetic Model [IEUBK]) as protective of a residential scenario. However, as this Site represents a non-residential scenario, the USEPA Region 6 outdoor worker soil MSSL of 800 mg/kg is used instead (USEPA 2007).

5. For asbestos, calculations are based upon cancer criterion and a risk goal of 10^{-6}.

This health risk assessment follows the basic procedures outlined in USEPA *Risk Assessment Guidance for Superfund: Volume I—Human Health Evaluation Manual* (RAGS; USEPA 1989). Other guidance documents were also consulted for the health risk assessment. This health risk assessment also conforms to the methodology included in the *BRC Closure Plan* (BRC, ERM, and DBSA 2007).

Evaluation of Concentrations Relative to Background Conditions

The comparison of Site-related soil concentrations to background levels was conducted using the existing, shallow soils background dataset presented in the *Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity* (BRC and TIMET 2007). Because of the lithology of the Site, only background data from the McCullough and Mixed lithologies were used from the background dataset. The background dataset used in included in Attachment A. Background comparisons were performed using the Quantile test, Slippage test, the *t*-test, and the Wilcoxon Rank Sum test with Gehan modification. The computer statistical software program, Guided Interactive Statistical Decision Tools (GiSdT®; Neptune and Company 2007), was used to perform all statistical comparisons.

For samples with primary and field duplicate results, the site sample and field duplicate are treated as independent samples and both are included in all subsequent data analyses, regardless of whether one or both are non-detect. The results of the background comparison evaluation are presented in Table 2, and summarized below.

Chemical	Greater than Background?	Basis
Aluminum	NO	Multiple tests
Antimony	YES	Multiple tests
Arsenic	YES	Multiple tests
Barium	YES	Multiple tests
Beryllium	NO	Multiple tests
Boron	NO	Multiple tests; low detection frequency; detection limits in background are lower than those at the site
Cadmium	YES	Multiple tests
Calcium	NO	Multiple tests
Chromium (Total)	YES	Multiple tests
Chromium (VI)	YES	Background are non-detect
Cobalt	NO	Multiple tests
Copper	NO	Multiple tests
Iron	NO	Multiple tests
Lead	YES	Multiple tests
Lithium	NO	Multiple tests; low detection frequency; site max detect and median are less than background
Magnesium	NO	Multiple tests
Manganese	YES	Multiple tests
Molybdenum	YES	Multiple tests
Mercury	NO	Multiple tests
Nickel	NO	Multiple tests
Niobium	YES	Multiple tests
Palladium	NO	Multiple tests; maximum detect less than maximum background
Phosphorus	NO	Multiple tests
Platinum	YES	Multiple tests
Potassium	NO	Multiple tests
Selenium	NO	Non-detect at the site
Silicon	NO	Multiple tests
Silver	YES	Multiple tests
Sodium	YES	Max site detect, site median and mean are greater than background
Strontium	NO	Multiple tests
Thallium	YES	Mulitple tests; low detection frequency
Tin	YES	Multiple tests

Chemical	Greater than Background?	Basis
Titanium	YES	Max site detect is greater than six times the background max detect
Tungsten	YES	Multiple tests
Uranium	YES	Multiple tests
Vanadium	YES	Multiple tests
Zinc	YES	Multiple tests
Zirconium	NO	Multiple tests
Radium-226	NO	In the decay chain of Uranium-238
Radium-228	NO	In the decay chain of Thorium-232
Thorium-228	NO	In the decay chain of Thorium-232
Thorium-230	NO	In the decay chain of Uranium-238
Thorium-232	NO	Multiple tests
Uranium-233/234	NO	In the decay chain of Uranium-238
Uranium-235/236	NO	Multiple tests; low detection frequency
Uranium-238	NO	Multiple tests

Cumulative probability plots and side-by-side box-and-whisker plots were also prepared and are included in Attachment C. These plots give a visual indication of the similarities between the Site and background datasets.

The results of this comparison indicate that levels of antimony, arsenic, barium, cadmium, total chromium, hexavalent chromium, lead, manganese, molybdenum, niobium, platinum, silver, sodium, thallium, tin, titanium, tungsten, uranium, vanadium, and zinc exceed background levels. Although the comparison statistics indicate that these metals levels at the Site are above background, the cumulative probability plots and box-and-whisker plots indicate that for several of these metals the differences are statistically significant, but practically small. However, as discussed below, these metals are considered in the health risk assessment.

Selection of Chemicals of Potential Concern

The broad suite of analytes sampled for was the initial list of chemicals of potential concern (COPCs) at the Site. However, in order to ensure that a risk assessment focuses on those substances that contribute the greatest to the overall risk (USEPA 1989); two procedures were used to eliminate the chemicals for quantitative evaluation in the health risk assessment:

- identification of chemicals with detected levels which are at or less than background concentrations (where applicable), and
- identification of chemicals that are infrequently detected at the Site.

The procedure for evaluating chemicals relative to background conditions was presented above. From this list of COPCs, further selection was performed by:

- Including chemicals positively identified in at least one sample, including: (1) chemicals with no qualifiers attached (excluding non-detect results with unusually high detection limits, if warranted), and (2) chemicals with qualifiers attached that indicate known identities but estimated concentrations (*e.g.*, J-qualified data); and
- Including chemicals detected at levels significantly elevated above levels of the same chemicals detected in associated blank samples (this protocol includes an analyte if it is known to be site-related and its concentration is greater than five times the maximum amount detected in any blank; if the chemical is a common laboratory contaminant [as defined by USEPA 1989], it is included only if its concentration is greater than 10 times the maximum amount detected in any blank).

Another criterion that may warrant chemical reduction is the frequency of detection. In general, chemicals exhibiting a low frequency of detection will not contribute significantly to the risk estimates. USEPA (1989) suggests that chemicals with a frequency of detection less than or equal to five percent, with the exception of metals, known human carcinogens, and persistent, bioaccumulative, and toxic (PBT) chemicals as defined by the USEPA PBT program (USEPA 2008a), may be considered for elimination. Prior to eliminating a chemical based on the frequency of detection criteria, (1) any elevated detection limits are addressed, and (2) data distributions within the Site are considered. Results of the selection of COPCs, including the rationale for excluding chemicals as COPCs are presented in Table 3.

Determination of Exposure Point Concentrations

A representative exposure concentration is a COPC-specific and media-specific concentration value. In risk assessment, these exposure concentrations are values incorporated into the exposure assessment equations from which potential baseline human exposures are calculated. As described below, the methods, rationale, and assumptions employed in deriving these concentration values follow USEPA guidance and reflect site-specific conditions.

Soil

Due to the uncertainty associated with determining the true average concentration at a site, where direct measurements of the site average are unavailable, the USEPA recommends using the lower of the maximum detected concentration or the 95 percent upper confidence limit (UCL) as the concentration of a chemical to which an individual could be exposed over time (USEPA 1992b). For the 95 percent UCL concentration approach, the 95 percent UCL was computed in order to represent the area-wide exposure point concentrations. The 95 percent UCL is defined as the value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time (USEPA 1992b). The purpose for using the 95 percent UCL is to take into account the different concentrations a person may be exposed to on any given day. That is, an individual will be exposed to a range of concentrations that exist at an exposure area, from non-detect to the maximum concentration, over an entire exposure period.

The 95 percent UCL statistical calculations were performed using the computer statistical software program GiSdT® (Neptune and Company 2007). See the Evaluation of Concentrations Relative to Background Conditions section for how sample locations with field duplicates were treated prior to the 95 percent UCL statistical calculations. The formulas for calculating the 95 percent UCL COPC concentration (as the representative exposure concentration) are presented in USEPA (1992b, 2002c).

The representativeness of the 95 percent UCLs for each exposure area, that is, a Site-wide mean concentration is valid for both maintenance and construction workers at the Site, is further supported by the bubble plot figures included in Attachment D. Figures for each of the COPCs are included in Attachment D.

Representative exposure concentrations for soil were based on the potential exposure depth for each of the receptors. For both maintenance and construction worker receptors, which are likely to be exposed to on-site surface and sub-surface soils, data from the surface to 10 feet bgs were used. In order to consider the potential that surface exposures might be higher than subsurface exposures, 95 percent UCLs were calculated for both surface soil data only and data from surface to 10 feet bgs. The higher of the two values was used in the risk estimates. The 95 percent UCL for each COPC is presented in Table 4. For indirect exposures, this concentration was used in fate and transport modeling.

The exposure point concentrations for asbestos were based on the pooled analytical sensitivity of the dataset. Therefore, asbestos exposure point concentrations are determined differently than those for the other COPCs. The pooled analytical sensitivity was calculated as follows:

$$\textit{Pooled Analytical Sensitivity} = 1/\left[\sum_i (1/\textit{analytical sensitivity for trial } i)\right]$$

Two estimates of the asbestos concentration were evaluated, best estimate and upper bound as defined in the draft methodology (USEPA 2003b). The best estimate concentration is similar to a central tendency estimate, while the upper bound concentration is comparable to a reasonable maximum exposure estimate. The pooled analytical sensitivity is multiplied by the number of chrysotile or amphibole structures to estimate concentration:

$$\text{Estimated Bulk Concentration } (10^6 \text{ s/gPM10}) = \text{Long fiber count} \times \text{Pooled analytical sensitivity}$$

For the best estimate, the number of fibers measured is incorporated into the calculation above. The upper bound of the asbestos concentration was also evaluated. It is calculated as the 95 percent UCL of the Poisson distribution where the mean equals the number of structures detected. In EXCEL, the following equation may be employed to calculate this value:

$$\text{95\% UCL of Poisson Distribution } (10^6 \text{ s/gPM10}) = \text{CHIINV}(1 - \alpha, 2 \times (\text{Long fiber count} + 1)/2)$$

This value is then multiplied by the pooled analytical sensitivity to estimate the upper bound concentration. The intent of the risk assessment methodology was to predict the risk associated with airborne asbestos.

In order to quantify the airborne asbestos concentration, the estimated dust levels or particulate emission factors were used:

$$\text{Estimated Airborne Concentration } (\text{s/cm}^3) = \text{Estimated bulk concentration } (10^6 \text{ s/gPM10}) \times \text{Estimated dust level } (\text{ug/cm}^3)$$

Outdoor Air

Exposure to COPCs bound to dust particles was evaluated using the USEPA's Particulate Emission Factor (PEF) approach (2002b). The USEPA guidance for dust generated by construction activities (USEPA 2002b) was used for assessing construction worker exposures. For exposures to VOCs in outdoor air, the USEPA volatilization factor approach was used (USEPA 2002b). Input soil concentrations for these models were the exposure point concentrations identified above.

Risk Assessment Methodology

The method used in the health risk assessment consists of several steps. The first step is the calculation of exposure point concentrations representative of the particular area (see above). The second step is fate and transport modeling to predict concentrations that may be present when direct measurements are not available. The third step is the exposure assessment for the various receptors present in the particular areas. The next step is to define the toxicity values for each COPC. The final step is risk characterization where theoretical upper-bound ILCRs and non-cancer HIs are calculated. The *BRC Closure Plan* (BRC, ERM, and DBSA 2007) provides a full discussion on the risk assessment methodology for the project, and used in this health risk assessment.

Table 5 presents each of the exposure parameters for the construction workers and maintenance workers used in the health risk assessment for each pathway identified in Figure 3. Toxicity values, when available, are published by the USEPA in the on-line Integrated Risk Information System (IRIS; USEPA 2008b) and the Health Effects Assessment Summary Tables (HEAST; USEPA 1997). Cancer slope factors (CSFs) are chemical-specific, experimentally-derived potency values used to calculate the risk of cancer resulting from exposure to carcinogenic chemicals. A higher value implies a more potent carcinogen. Reference doses (RfDs) are experimentally derived "no-effect" values used to quantify the extent of adverse non-cancer health effects from exposure to chemicals. Here, a lower RfD implies a more potent toxicant. These criteria are generally developed by USEPA risk assessment work groups and listed in USEPA risk assessment guidance documents and databases. The hierarchy for selecting toxicity criteria presented in the *BRC Closure Plan* (BRC, ERM, and DBSA 2007) was used.

Uncertainty Analysis

Risk estimates are values that have uncertainties associated with them. These uncertainties, which arise at every step of a risk assessment, are evaluated to provide an indication of the uncertainty associated with a risk estimate. Risk assessments are not intended to estimate the true risk to a receptor associated with exposure to chemicals in the environment. In fact, estimating the true risk is impossible because of the variability in the exposed or potentially exposed populations. Therefore, risk assessment is a means of estimating the probability that an adverse health effect (*e.g.*, cancer, impaired reproduction) will occur in a receptor in order to assist in decision making regarding the protection of human health. The multitude of conservative assumptions used in risk assessments guard against underestimation of risks.

Risk estimates are calculated by combining site data, assumptions about individual receptor's exposures to impacted media, and toxicity data. The uncertainties in this health risk assessment can be grouped into four main categories that correspond to these steps:

- Uncertainties in environmental sampling and analysis
- Uncertainties in fate and transport modeling
- Uncertainties in assumptions concerning exposure scenarios
- Uncertainties in toxicity data and dose-response extrapolations

General uncertainties associated with the health risk assessment for the Site are summarized in Table 6. In Table 6, "Low," "Moderate," and "High" are qualitative indicators as to whether the source of uncertainty will likely have a small, medium, or large effect on the risk calculations, respectively. Additional discussion on the uncertainties associated with the health risk assessment is provided below.

The health risk assessment for the Site was based on the sampling results obtained from investigations conducted in 2008. Errors in sampling results can arise from the field sampling, laboratory analyses, and data analyses. Errors in laboratory analysis procedures are possible, although the impacts of these sorts of errors on the risk estimates are likely to be low. The environmental sampling at the Site is one source of uncertainty in the evaluation. However, the number of sampling locations and events is large and widespread, and sampling was performed using approved procedures; therefore, the sampling and analysis data is sufficient to characterize the impacts and the associated potential risks.

Because of the surface soil removal for certain chemicals, the new surface layer of the Site could have different chemical concentrations than those that were measured prior to soil removal. Because only the trigger analytes were re-analyzed for in the post-scrape samples, the original measured surface soil data at the Site for all other chemicals was retained for further evaluation. However, it is reasonable to assume that the concentrations are now lower for some chemicals (*e.g.*, metals), because of the removal of some soil.

The selection of exposure pathways is a process, often based on best professional judgement, which attempts to identify the most probable potentially harmful exposure scenarios. In a risk assessment it is possible that risks are not calculated for all of the exposure pathways that may occur, possibly causing some underestimation of risk. In this assessment, risks were estimated for outdoor worker receptors. Risks for the most likely routes of exposure to these receptors

were estimated. Specifically, risks to construction workers were estimated for soil ingestion, skin contact with soil, and inhalation of outdoor air (including dust generation); while risks to maintenance workers were estimated for soil ingestion, skin contact with soil, and inhalation of outdoor air. Although it is possible that other exposure routes could exist, these exposures are expected to be lower than the risks associated with the pathways considered.

In this health risk assessment, with the exception of arsenic and dioxins/furans, absorption of ingested and inhaled COPCs is conservatively assumed to be 100 percent. For arsenic, consistent with the the *BRC Closure Plan* (BRC, ERM, and DBSA 2007) and scientific literature recommendations on arsenic bioavailability (Roberts *et al*. 2001; Ruby *et al*. 1999; USEPA 2001b), an arsenic oral bioavailability of 30 percent was used. The actual oral bioavailability of arsenic (as well as other metals at the Site, for which an oral bioavailability of 100 percent was used) is likely to be lower than this value. For dioxins/furans, an oral bioavailabity of 30 percent was used. This is consistent with the value used in the development of the ATSDR action level of 1 ppb (based on a study by Kimbrough *et al*. [1984]) and scientific literature recommendations (for example, in Ruby *et al*. (2002) the bioaccessibility of dioxins/furans in soil ranged from 19 to 34 percent [averaged across the 17 2,3,7,8-substituted dioxin/furan congeners], with an average of 25 percent).

Toxicity criteria have not been established for many of the chemicals detected at the Site. These chemicals were not quantitative evaluated in the health risk assessment. Because of the inconclusive nature of tentatively identified compounds (TICs) as potentially site-related chemicals, non-cancer surrogate toxicity criteria were not applied. Non-cancer surrogate toxicity criteria were not applied to the inorganic chemicals because of the complexity of ion and metal toxicity. A quantitative estimation of risk was not conducted for these COPCs. Thus, the risks presented in this assessment could be underestimated as a result.

Consistent with the the *BRC Closure Plan* (BRC, ERM, and DBSA 2007), if one carcinogenic PAH is considered a COPC then all seven carcinogenic PAHs are considered COPCs, regardless of whether or not they are detected at the Site. Only chrysene was initially considered a COPC as it was detected in three out of 59 samples (5.1 percent). Only three of the seven carcinogenic PAHs were detected at the Site; however, all were considered COPCs and evaluated in the health risk assessment.

The USEPA has not derived toxicity criteria to evaluate the potential non-cancer health hazards associated with exposure to the carcinogenic PAH COPCs. For the human health risk assessment, a toxicological surrogate (*i.e.*, pyrene) was used to quantify the potential non-

carcinogenic effects of the carcinogenic PAHs. This surrogate was selected from a list of six PAHs for which non-cancer oral toxicity criteria have been assigned by the USEPA based on a careful consideration of their relevant toxicity data, target organ(s), dose-response information, and structure-activity relationships. From the available oral non-cancer toxicity data reported by the USEPA, the most sensitive target organs are the liver, kidney, and blood (hematological effects) (IRIS, USEPA 2008b). For the carcinogenic PAHs, the non-cancer target organs were found to be the same and the reported toxicological thresholds for these effects are generally in the range for those reported for the non-cancer PAHs (ATSDR 1995). Although naphthalene (2-ring structure) has the most stringent oral non-cancer toxicity criterion (0.02 mg/kg day), pyrene (4-ring structure; oral RfD of 0.03 mg/kg-day) was selected to be the best surrogate due to (1) non-cancer toxicity endpoints are more consistent with those for carcinogenic PAHs and (2) the greater number of rings in the pyrene chemical structure.

No sub-chronic toxicity criteria are available for manganese in IRIS or HEAST. However, the chronic inhalation reference concentration (RfC) for manganese listed in IRIS includes an uncertainty factor of "…10 for database limitations reflecting both the less-than-chronic periods of exposure and the lack of developmental data, as well as potential but unquantified differences in the toxicity of different forms of Mn." Because construction worker exposures are considered sub-chronic, the chronic RfD for manganese was adjusted by a factor of 10 to account for sub-chronic exposures. There are multiple toxicity criteria listed in IRIS and HEAST for vanadium and compounds. The oral RfD listed for vanadium in the USEPA Region 6 MSSLs table, which cites IRIS as the source, was used in this health risk assessment.

Uncertainties from different sources are compounded in the health risk assessment. For example, if a person's daily intake rate for a chemical is compared to an RfD to determine potential health risks, the uncertainties in the concentration measurements, exposure assumptions, and toxicities will all be expressed in the result. Because the exposure assumptions and toxicity criteria are considered conservative, the risk estimates calculated in this health risk assessment are likely to overestimate rather than underestimate potential risks.

Health Risk Assessment Results

This health risk assessment has evaluated potential risks to human health associated with chemicals detected in soil at the Utility Corridor Sub-Area located within the BMI Common Areas in Clark County, Nevada. The calculation of chemical theoretical upper-bound ILCRs and non-cancer health effects are presented in Attachment E. Asbestos risk calculations are also

presented in Attachment E. All calculation spreadsheets for this health risk assessment are included in Attachment E.

The risk estimates are based on reasonable maximum exposure scenarios, which results in estimates of the potential reasonable maximum, or high-end, risks associated with the Site. The calculated theoretical upper-bound ILCRs and HIs are presented in Tables 7 and 8. Asbestos estimated deaths from lung cancer are presented in Table 9.

The total cumulative non-cancer HIs for future construction worker and maintenance worker receptors were 0.9 and 0.2, respectively. These total cumulative non-cancer HIs are below the target HI of 1.0. The total cumulative non-cancer HI for construction workers is predominantly due to hazards associated with inhalation of manganese in estimated dust generated during construction activities. It should be noted that the Clark County annual arithmetic mean ambient air quality standard for particular matter (PM_{10}) is 50 $\mu g/m^3$. If dust mitigation/suppression is conducted to achieve this level, the total cumulative non-cancer HI for construction workers decreases to 0.3.

The theoretical upper-bound ILCRs for future construction worker and maintenance worker receptors at the Site are 2×10^{-6} and 4×10^{-6}, respectively. Although the ILCRs are above the risk goal of 1×10^{-6}, the risks are primarily driven by dioxins/furans. The 95 percent UCL concentration for dioxins/furans used in the health risk assessment of 221 ppt resulted in a total dioxins/furans ILCR of 3×10^{-6} for future maintenance workers. This 95 percent UCL concentration is below the ATSDR action level of 1,000 ppt. The ATSDR action level is equivalent to an ILCR of 1×10^{-5}. The theoretical upper-bound ILCR for future maintenance workers decreases to 1×10^{-6} without including dioxins/furans. If dust mitigation/suppression is conducted to achieve the Clark County annual arithmetic mean ambient air quality standard for PM_{10}, the theoretical upper-bound ILCR for future construction workers decreases to 8×10^{-7}.

The estimated risks for death from lung cancer for asbestos exposures to worker receptors were below 1×10^{-6}. For construction workers, the best estimate and upper bound concentrations of asbestos range from 6×10^{-8} to 7×10^{-8} for chrysotile fibers, and from zero to 3×10^{-7} for amphibole fibers. For maintenance workers, the best estimate and upper bound concentrations of asbestos were 2×10^{-9} for chrysotile fibers, and from zero to 1×10^{-8} for amphibole fibers. It should be noted that the reasonable maximum risk estimates are based on an observed count of zero long amphibole structures. No amphibole structures have been detected at the Site. The upper bound estimated risk for death from lung cancer is associated with the UCL of the

Poisson distribution which assumes the mean amphibole concentration is equal to three long amphibole structures per cubic centimeter. However, the high-end risk estimate for deaths from lung cancer of 1×10^{-5} is a conservative value for the following reasons:

- It is based on a 95 percent UCL of the Poisson distribution of three long amphibole structures although no long amphibole structures have been detected at the Site; and
- The values from Tables 8-2 of USEPA (2003b) are recommended only for constant lifetime exposures, not short term exposures such as construction activities.

Thus, the results of the health risk assessment indicate that exposures to chemicals in soil at the Site should not result in adverse health effects to all future on-site receptors.

Data Adequacy

Sample size calculations were conducted for eight analytes (chrysotile asbestos, 2,3,7,8-TCDD, hexachlorobenzene, beta-BHC, arsenic, hexavalent chromium, manganese, and vanadium) for the Site. The formula used here for calculation of sample size is based on a non-parametric test (the Wilcoxon signed rank test), and on simulation studies performed by Pacific Northwest National Laboratories that formed the basis for an approximate formula that is based on the normal distribution. Essentially, the formula is the one that would be used if a normal-based test were being performed, but an adjustment is made (multiply by 1.16) to account for the intent to perform a non-parametric test. The formula is as follows:

$$n = 1.16\left[\frac{s^2}{\Delta^2}(z_{1-\alpha} + z_{1-\beta(\mu)})^2 + 0.5z_{1-\alpha}^2\right]$$

where,

n	=	number of samples
s	=	estimated standard deviation of concentrations/fibers
Δ		width of the gray region (the difference between the threshold value in stated in the hypothesis and the point at which β is specified)
α		significance level or Type I error tolerance
β (μ)		Type II error tolerance; and
z		quantile from the standard normal distribution

For each chemical, inputs for the calculations include an estimate of the variance from the measured data, a desired significance level, and desired power of the test that must be specified

at a concentration of interest (which determines the tolerable difference from the threshold value). The calculations provided here cover a range of Type I and Type II error tolerances, and the point at which the Type II error is specified. Results are presented in Table 10. In Table 10, various combinations of input values are used, including: values of α of 5%, 10% and 15%; values of β of 15%, 20%, and 25%; and a gray region of width 10%, 20% and 30% of the threshold level. It is clear from Table 10 that the number of samples collected is adequate for the Site.

Summary

Based on the results of the 2008 investigation, and this data review and health risk assessment, exposures to residual levels chemicals in soil at the Site should not result in adverse health effects to all future on-site receptors. In summary, BRC concludes that an NFAD for the Site is warranted.

REFERENCES

Agency for Toxic Substances and Disease Registry (ATSDR). 1997. Dioxin and Dioxin-Like Compounds in Soil, Part 1: ATSDR Interim Policy Guideline. U.S. Department of Health and Human Services, Atlanta, GA.

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological Profile for Polycyclic Aromatic Hydrocarbons. U.S. Department of Health and Human Services, Public Health Service. August.

Basic Remediation Company (BRC). 2008. Sewer Alignment Excavation Soil Sampling and Analysis Plan, BMI Common Areas (Eastside), Clark County, Nevada.

Basic Remediation Company (BRC) and ERM. 2008. Data Validation Summary Report, Sewer Alignment Excavation Soil Investigation, April and August 2008 (Dataset 50), BMI Common Areas, Clark County, Nevada. October.

Basic Remediation Company (BRC), ERM, and Daniel B. Stephens & Associates, Inc. (DBS&A). 2007. BRC Closure Plan, BMI Common Areas, Clark County, Nevada. May.

Basic Remediation Company (BRC), ERM, and MWH. 2008. BRC Quality Assurance Project Plan. BMI Common Areas, Clark County, Nevada. February.

Basic Remediation Company (BRC), ERM, and MWH. 2007. BRC Field Sampling and Standard operating Procedures. BMI Common Areas, Clark County, Nevada. August.

Basic Remediation Company (BRC) and TIMET. 2007. Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity. Prepared by Tetra Tech and MWH.

Berman, D.W. and Chatfield, E.J. 1990. Interim Superfund Method for the Determination of Asbestos in Ambient Air. Part 2: Technical Background Document, Office of Solid Waste and Remedial Response, U.S. EPA, Washington, D.C., EPA/540/2-90/005b, May.

Berman, D.W. and Kolk, A. 2000. Modified Elutriator Method for the Determination of Asbestos in Soils and Bulk Material. May (Revision 1).

Berman, D.W. and Crump, K.S. 2001. Technical Support Document for a Protocol to Assess Asbestos-Related Risk. Prepared for Mark Raney, Volpe Center, U.S. Department of Transportation, 55 Broadway, Kendall Square, Cambridge, MA 02142. Under EPA Review.

Environmental Resources Management (ERM). 1996b. Draft Environmental Conditions Investigation Report, BMI Common Areas, Henderson, Nevada. August.

Kimbrough, R.D., H. Falk, P. Stehr, and G. Fries. 1984. Health implications of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) contamination of residential soil. J. Toxicol. Environ. Health 14: 47-93.

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

Nevada Division of Environmental Protection (NDEP). 2008. Supplemental Guidance for Assessing Data Usability for Environmental Investigations at the BMI Complex and Common Areas in Henderson, Nevada. Bureau of Corrective Actions, Special Projects Branch. October 22.

Neptune and Company. 2007. Guided Interactive Statistical Decision Tools (GiSdT). www.gisdt.org.

Roberts *et al*. 2001. Measurement of Arsenic Bioavailability in Soil Using a Primate Model. Toxicological Sciences, 67, 2: 303-310.

Ruby, M.V., R. Schoof, W. Brattin, M. Goldale, G. Post, M. Harnios, D. E. Mosby, S. W. Casteel, W. Berti, M. Carpenter, D. Edwards, D. Cragin, and W. Chappell. 1999. Advances in evaluating the oral bioavailability of inorganics in soil for use in human health risk assessment. Environ. Sci. Technol. 33(21):3697-3705.

Ruby, M.V., K.A. Fehling, D.J. Paustenbach, B.D. Landenberger, and M.P. Holsapple. 2002. Oral bioaccessibility of dioxins/furans at low concentrations (50-350 ppt toxicity equivalent) in soil. Environ. Sci. Technol. 36:4905-4911.

U.S. Environmental Protection Agency (USEPA). 1989. Risk Assessment Guidance for Superfund: Volume I—Human Health Evaluation Manual (Part A). Interim Final. Office of Emergency and Remedial Response, Washington, D.C. USEPA/540/1-89/002. December.

U.S. Environmental Protection Agency (USEPA). 1992a. Guidance for Data Usability in Risk Assessment. Part A. Office of Emergency and Remedial Response, Washington D.C. Publication 9285.7-09A. PB92-963356. April.

U.S. Environmental Protection Agency (USEPA). 1992b. Guidelines for Exposure Assessment. Federal Register, 57(104):22888-22938. May 29.

U.S. Environmental Protection Agency (USEPA). 1997. Annual Health Effects Assessment Summary Tables (HEAST) FY 1997. Office of Solid Waste and Emergency Response, Washington DC. EPA 540/R-94/036.

U.S. Environmental Protection Agency (USEPA). 1999. National Functional Guidelines for Organic Data Review. EPA 540/R-99-008. OSWER 9240.1-05A-P. October.

U.S. Environmental Protection Agency (USEPA). 2001a. National Functional Guidelines for Low-Concentration Organic Data Review. EPA 540-R-00-006. OSWER 9240.1-34. June.

U.S. Environmental Protection Agency (USEPA). 2001b. Inorganic Arsenic – Report of the Hazard Identification Assessment Review Committee. Memorandum, From: J. Chen, S. Malish, T. McMathon, Risk Assessment and Science Support Branch; to: N. Cook, Chief, Risk Assessment and Science Support Branch. August 21.

U.S. Environmental Protection Agency (USEPA). 2002a. National Functional Guidelines for Chlorinated Dioxin/Furan Data Review. EPA 540-R-02-003. OSWER 9240.1-37. August.

U.S. Environmental Protection Agency (USEPA). 2002b. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response, Washington, DC. OSWER 9355.4-24. December.

U.S. Environmental Protection Agency (USEPA). 2002c. Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites. Office of Emergency and Remedial Response, Washington, DC. OSWER9285.6-10. December.

U.S. Environmental Protection Agency (USEPA). 2003a. Contract Laboratory Program Statement of Work for Organic Analysis: Multi-media, Multi-concentration. OLM04.3. Office of Emergency and Remedial Response. March.

U.S. Environmental Protection Agency (USEPA). 2003b. Technical Support Document for a Protocol to Assess Asbestos-Related Risk. Final Draft. Office of Solid Waste and Emergency Response, Washington, DC.

U.S. Environmental Protection Agency (USEPA). 2004a. Contract Laboratory Program Statement of Work for Organic Analysis: Multi-media, Multi-concentration. SOM01.0. Office of Emergency and Remedial Response. October.

U.S. Environmental Protection Agency (USEPA). 2004b. Contract Laboratory Program Statement of Work for Inorganic Analysis: Multi-media, Multi-concentration. ILM05.3. Office of Emergency and Remedial Response. March.

U.S. Environmental Protection Agency (USEPA). 2004c. National Functional Guidelines for Inorganic Data Review. EPA 540-R-04-004. OSWER 9240.1-45. October.

U.S. Environmental Protection Agency (USEPA). 2004d. Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final. Office of Emergency and Remedial Response, Washington, DC. EPA/540/R/99/005. July.

U.S. Environmental Protection Agency (USEPA). 2005. National Functional Guidelines for Chlorinated Dioxin/Furan Data Review. EPA 540-R-05-001. OSWER 9240.1-51. September.

U.S. Environmental Protection Agency (USEPA). 2007. Region 6 Human Health Medium-Specific Screening Levels. December. http://www.epa.gov/earth1r6/6pd/rcra_c/pd-n/screen.htm.

U.S. Environmental Protection Agency (USEPA). 2008a. Persistent Bioaccumulative and Toxic (PBT) Chemical Program. USEPA on-line database: http://www.epa.gov/pbt/.

U.S. Environmental Protection Agency (USEPA). 2008b. Integrated Risk Information System. USEPA on-line database: http://www.epa.gov/iris/index.html.

U.S. Environmental Protection Agency (USEPA). 2008c. Preliminary Remediation Goals for Radionuclides. USEPA on-line database: http://epa-prgs.ornl.gov/radionuclides/.

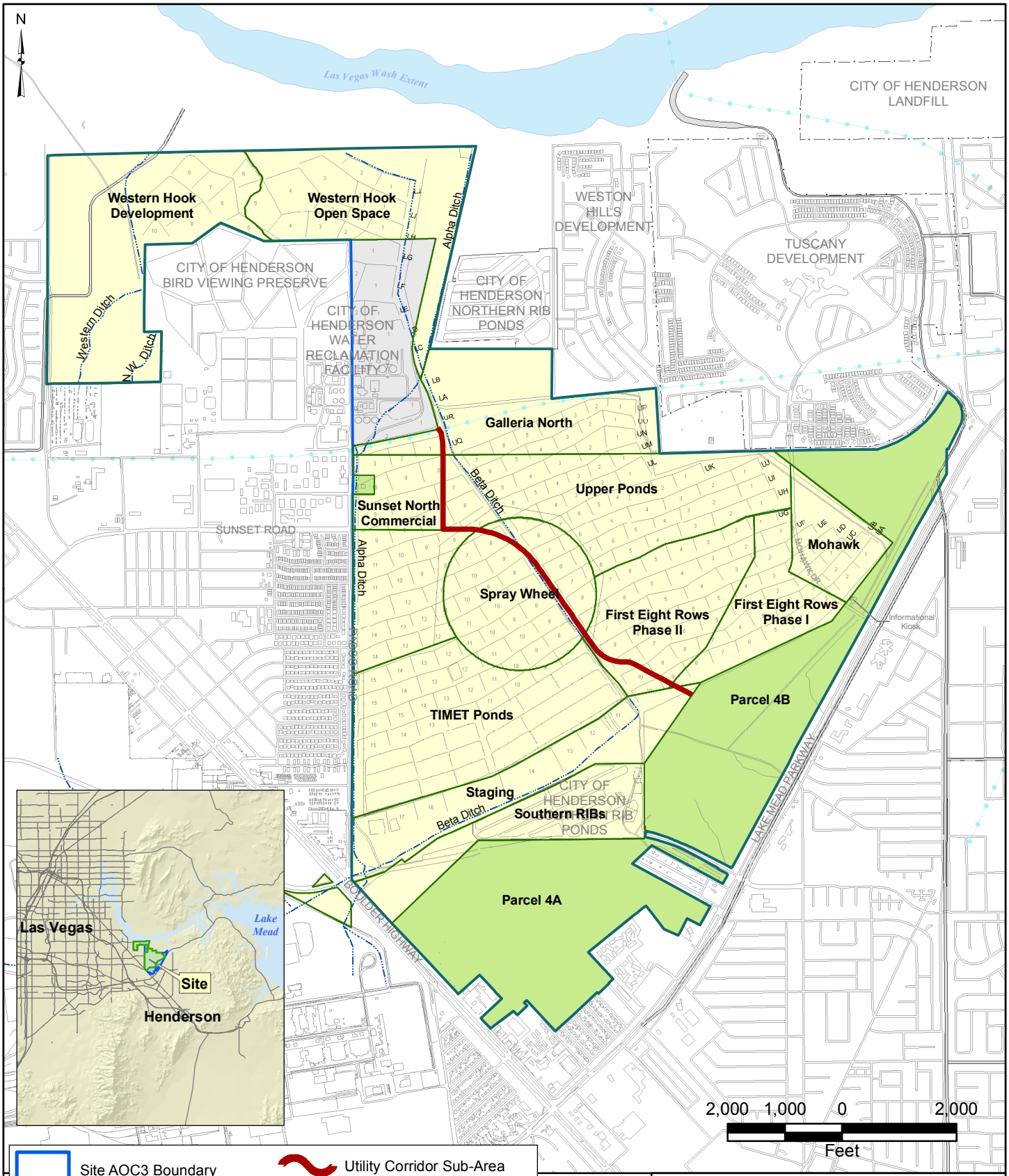
Attachments:
- Table 1 – 2008 Sewer Alignment Excavation Soil Results Summary
- Table 2 – Background Comparison Summary
- Table 3 – Chemicals of Potential Concern (COPC) Selection
- Table 4 – Exposure Point Concentrations in Soil
- Table 5 – Health Risk Assessment Exposure Factors
- Table 6 – Uncertainty Analysis
- Table 7 – Chemical Risk Summary for Commercial Worker Receptors
- Table 8 – Chemical Risk Summary for Maintenance Worker Receptors
- Table 9 – Asbestos Risk Summary
- Table 10 – Data Adequacy Evaluation
- Figure 1 – Utility Corridor Sub-Area Location
- Figure 2 – Utility Corridor Sub-Area Soil Sample Locations
- Figure 3 – Conceptual Site Model Diagram for Potential Human Exposures
- Figure 4 – Current Development Plan
- Attachment A – 2008 Sewer Alignment Excavation Investigation Data Tables (Database on CD)
- Attachment B – Data Usability Tables (on CD)
- Attachment C – Cumulative Probability Plots and Box-and-Whisker Plots
- Attachment D – Chemicals of Potential Concern (COPC) Bubble Plots
- Attachment E – Health Risk Assessment Calculation Spreadsheets (on CD)

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. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Ranajit Sahu December 3, 2008

Dr. Ranajit Sahu, C.E.M. (No. EM-1699, Exp. 10/07/2009) Date
BRC Project Manager

FIGURES



BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE 1

UTILITY CORRIDOR SUB-AREA LOCATION

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/FIGURE1.MXD

Eastside Soil Sub-Areas

Site AOC3 Boundary

Remediation Zones

Pittman Lateral

Utility Corridor Sub-Area

Soil Sample Location

Surface Sample Only

Surface and At-Depth Samples

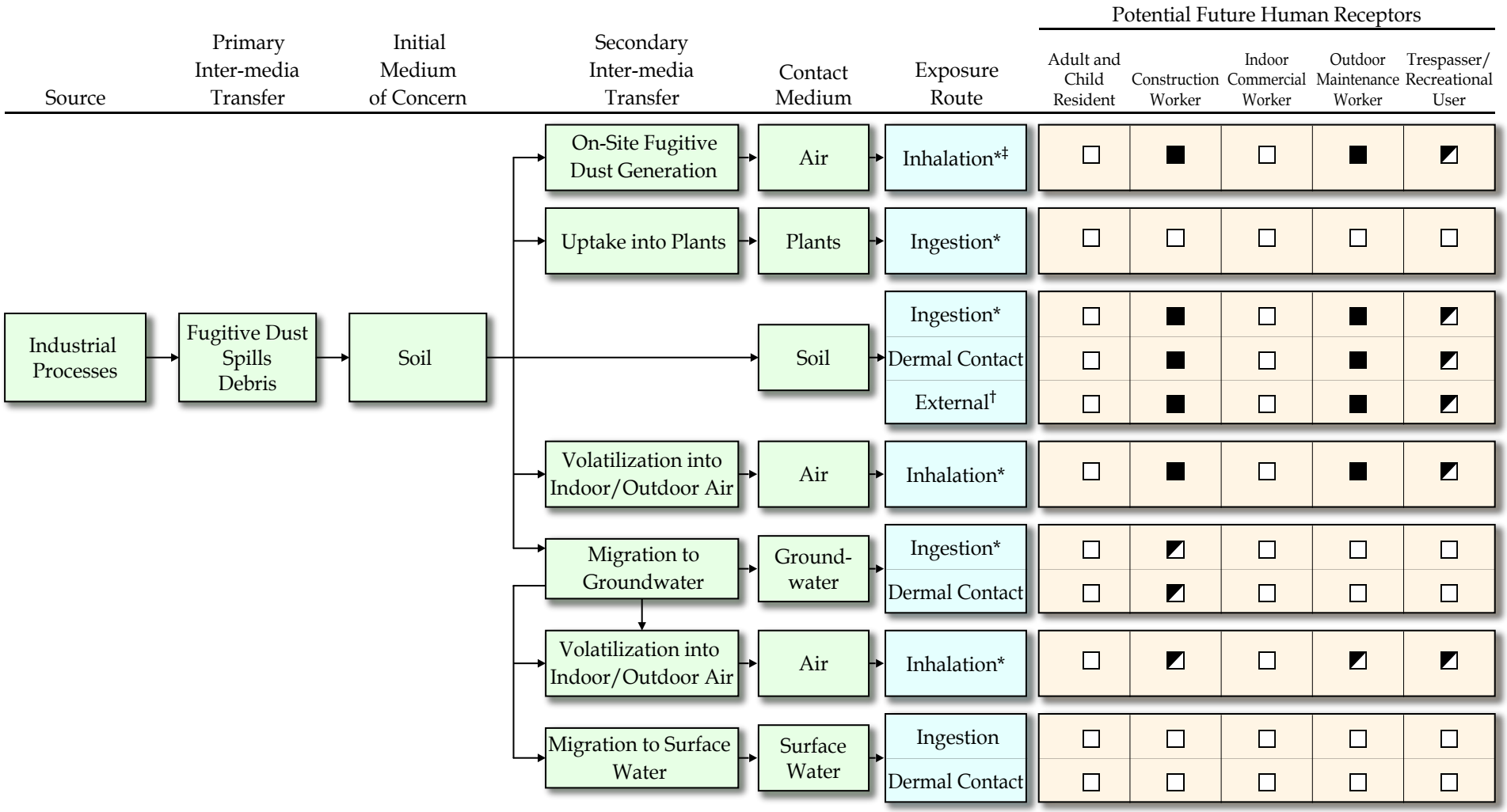
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE 2

UTILITY CORRIDOR SUB-AREA SOIL SAMPLE LOCATIONS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/FIGURE2.MXD



□ - Incomplete or insignificant exposure pathway.
■ - Complete or potentially complete exposure pathway.
◪ - Although a potentially complete exposure pathway, only outdoor worker receptor soil exposures were evaluated in the health risk assessment and are considered protective of all other receptors (see text).
*Includes radionuclide exposures.
†Only radionuclide exposures.
‡Includes asbestos exposures.

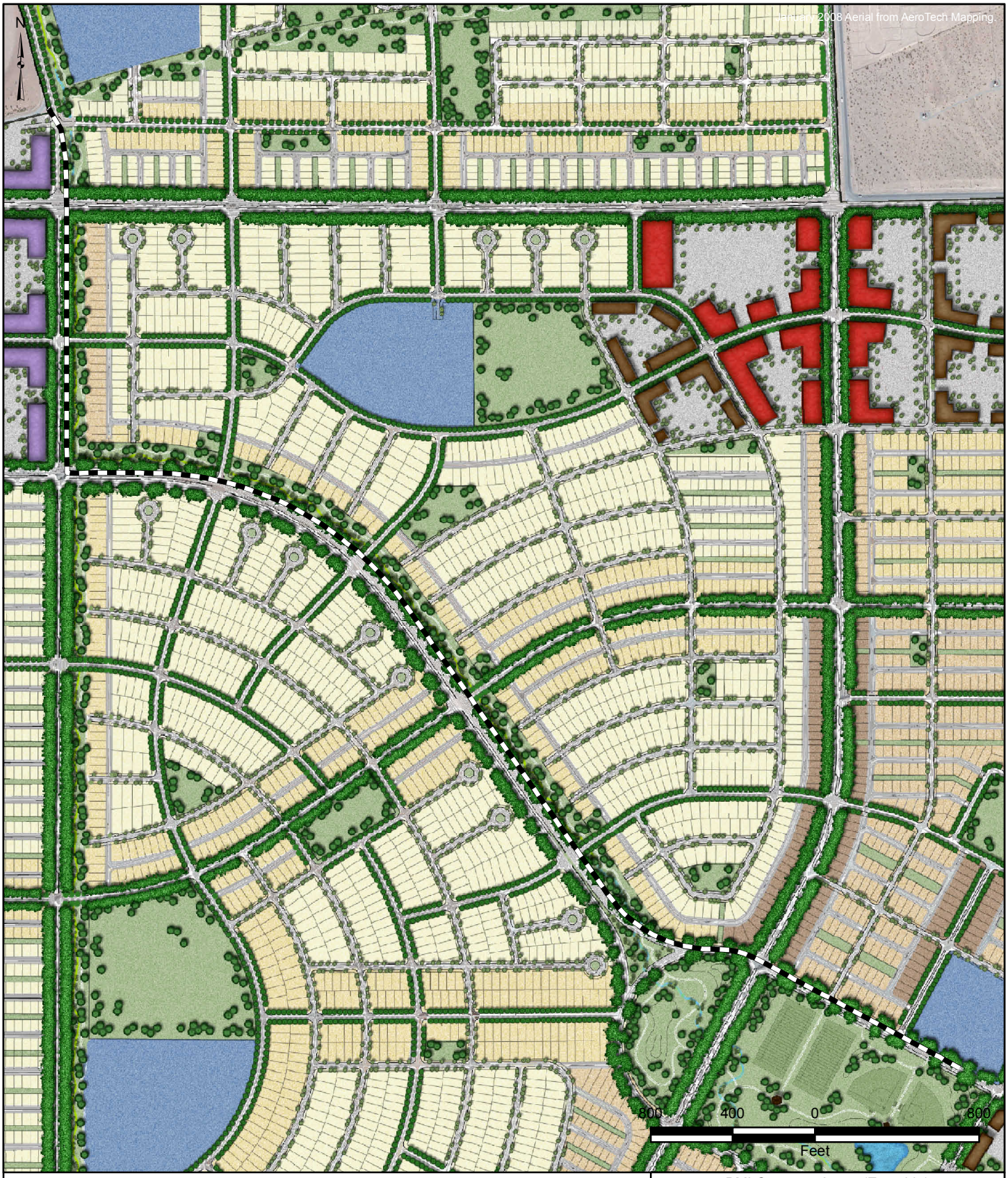
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE 3

CONCEPTUAL SITE MODEL DIAGRAM FOR POTENTIAL HUMAN EXPOSURES

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/FIGURE3.MXD



Utility Corridor Sub-Area

Current Development Plan

- High Density Residential
- Medium Density Residential
- Low Density Residential
- Commercial
- Schools
- Retail/Commercial
- Parks & Trails
- Roads/Parking

BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE 4

CURRENT DEVELOPMENT PLAN

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/FIGURE4.MXD

TABLES

TABLE 1
2008 SEWER ALIGNMENT EXCAVATION SOIL RESULTS SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 5)

					Censored (Non-Detect) Data							Detected Data[a]														
Parameter of Interest	Compound List	Units	Total Count	Detect Freq.	ND Count	Min	Q1	Median	Mean	Q3	Max	Detect Count	Min	Q1	Median	Mean	Q3	Max	Region 6 OW Soil MSSL[b]	Count of Detects > MSSL	USEPA SSL (DAF 1)[c]	Count of Detects > DAF 1	USEPA SSL (DAF 20)[c]	Count of Detects > DAF 20	Max. Bkgrnd[d]	Count of Detects > Bkgrnd
Asbestos[e]	Amphibole	Structures	52	0.0%	52	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Chrysotile	Structures	52	30.8%	36	--	--	--	--	--	--	16	1	--	--	--	--	10	--	--	--	--	--	--	--	--
Aldehydes	Acetaldehyde	mg/kg	59	50.8%	29	0.3	0.31	0.34	0.342414	0.37	0.42	30	0.046	0.052	0.064	0.085067	0.1	0.22	25.9	0	--	--	--	--	--	--
	Chloroacetaldehyde	mg/kg	59	0.0%	59	0.12	0.61	0.63	0.617119	0.7	0.88	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Formaldehyde	mg/kg	59	33.9%	39	0.6	0.63	0.68	0.686667	0.73	0.88	20	0.35	0.3925	0.565	0.625	0.8425	1.4	41.6	0	--	--	--	--	--	--
Dioxins/Furans	1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/g	60	73.3%	16	0.14	0.295	0.435	0.689375	0.775	2.4	44	2.6	87.25	320	674.8227	910	4200	--	--	--	--	--	--	--	--
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	pg/g	60	66.7%	20	0.1	0.2525	0.375	0.464	0.535	1.5	40	3.1	13.5	32.5	72.745	94.75	450	--	--	--	--	--	--	--	--
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/g	60	71.7%	17	0.055	0.15	0.38	0.435588	0.61	1.1	43	4.4	46	140	285.3488	370	1700	--	--	--	--	--	--	--	--
	1,2,3,4,7,8-Hexachlorodibenzofuran	pg/g	60	71.7%	17	0.09	0.145	0.28	0.437412	0.67	1.3	43	5.2	33	150	333.1488	430	2200	--	--	--	--	--	--	--	--
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	pg/g	60	45.0%	33	0.052	0.175	0.43	0.655394	0.805	2.5	27	3.3	4.3	8.8	14.71852	24	62	--	--	--	--	--	--	--	--
	1,2,3,6,7,8-Hexachlorodibenzofuran	pg/g	60	70.0%	18	0.06	0.11	0.265	0.412222	0.5325	2	42	2.8	29.25	97.5	210.1786	292.5	1200	--	--	--	--	--	--	--	--
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	pg/g	60	51.7%	29	0.1	0.2	0.55	0.834828	1.5	2.5	31	3.7	8.6	18	28.74839	45	130	--	--	--	--	--	--	--	--
	1,2,3,7,8,9-Hexachlorodibenzofuran	pg/g	60	58.3%	25	0.073	0.16	0.3	0.65144	1.155	2.4	35	2.7	12	19	42.52857	57	180	--	--	--	--	--	--	--	--
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	pg/g	60	53.3%	28	0.058	0.1775	0.5	0.717357	1.07	2.3	32	3.7	7.525	14	26	38.25	120	--	--	--	--	--	--	--	--
	1,2,3,7,8-Pentachlorodibenzofuran	pg/g	60	71.7%	17	0.065	0.135	0.34	0.339647	0.535	0.75	43	2.9	21	83	194.507	290	1000	--	--	--	--	--	--	--	--
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	pg/g	60	50.0%	30	0.052	0.22	0.56	0.752967	1.175	2.3	30	3.1	6.825	12.5	22.65	33.5	94	--	--	--	--	--	--	--	--
	2,3,4,6,7,8-Hexachlorodibenzofuran	pg/g	60	63.3%	22	0.049	0.11	0.265	0.643409	0.76	2.4	38	3.2	11	28.5	60.99737	78.75	300	--	--	--	--	--	--	--	--
	2,3,4,7,8-Pentachlorodibenzofuran	pg/g	60	66.7%	20	0.065	0.1425	0.335	0.5435	0.6175	2.6	40	2.7	15	45.5	111.6775	172.5	510	--	--	--	--	--	--	--	--
	2,3,7,8-Tetrachlorodibenzofuran	pg/g	60	75.0%	15	0.074	0.096	0.2	0.209333	0.24	0.42	45	0.72	16	53	145.8011	205	1200	--	--	--	--	--	--	--	--
	2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/g	60	56.7%	26	0.025	0.057	0.185	0.272692	0.4725	0.82	34	0.58	1.775	2.9	6.916765	9.175	41	--	--	--	--	--	--	--	--
	Octachlorodibenzodioxin	pg/g	60	63.3%	22	0	0.55	0.86	1.380909	2.025	5.1	38	5.6	22	60	96.69474	99.75	780	--	--	--	--	--	--	--	--
	Octachlorodibenzofuran	pg/g	60	75.0%	15	0.29	0.46	0.78	1.574667	2	5	45	7.6	400	1400	3059.164	3400	27000	--	--	--	--	--	--	--	--
	TCDD TEQ	pg/g	60	--	--	--	--	--	--	--	--	--	0.23	1.2	30.35	128.9322	133.5	984	1000[f]	0	--	--	--	--	--	--
General Chemistry/ Ions	Ammonia	mg/kg	59	33.9%	39	0.5	0.51	0.79	0.676154	0.83	0.85	20	0.51	0.66	0.82	0.911	0.97	2.1	--	--	--	--	--	--	--	--
	Bromide	mg/kg	59	5.1%	56	0.063	0.064	0.065	0.141304	0.26	0.27	3	0.58	0.58	1.3	1.36	2.2	2.2	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	59	40.7%	35	0.53	0.55	1	0.810286	1	1.1	24	1.3	2.725	5.8	6.320833	8.075	16.2	--	--	--	--	--	--	--	--
	Chloride	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	1.4	15.5	194	569.4492	671	3820	--	--	--	--	--	--	1110	12
	Chlorite	%	59	100.0%	0	--	--	--	--	--	--	59	81	92	95	93.67797	98	99	--	--	--	--	--	--	--	--
	Cyanide (Total)	mg/kg	58	19.0%	47	0.08	0.081	0.081	0.082021	0.084	0.087	11	0.084	0.11	0.13	0.144	0.17	0.28	13681.39	0	2	0	40	0	--	--
	Fluoride	mg/kg	59	94.9%	3	0.1	0.1	0.1	0.1	0.1	0.1	56	0.55	1.025	1.8	2.259464	2.975	8.5	41044.18	0	--	--	--	--	2.5	20
	Nitrate (as N)	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.64	3.1	18.9	47.98881	74	441	--	--	--	--	--	--	102	9
	Nitrite (as N)	mg/kg	59	11.9%	52	0.02	0.051	0.51	2.250692	2.6	10.5	7	0.077	0.1	0.18	0.309571	0.43	0.98	--	--	--	--	--	--	0.21	3
	Orthophosphate as P	mg/kg	59	20.3%	47	0.51	0.53	1.6	1.180638	1.7	1.7	12	1.5	2.25	3.5	6.566667	9.625	22.1	--	--	--	--	--	--	--	--
	Percent Moisture	%	61	100.0%	0	--	--	0.00195	0.00195	--	0.002	61	0.7	1.7	2.9	3.360164	4.9	8.7	--	--	--	--	--	--	--	--
	Perchlorate	mg/kg	59	96.6%	2	0.0019	1.8	1.9	1.862745	1.9	1.9	57	0.0064	0.06305	0.202	1.027205	0.573	13.8	795	0	--	--	--	--	--	--
	pH (Hydrogen Ion)	--	59	100.0%	0	--	--	--	--	--	--	59	7.4	8.1	8.4	8.50678	8.9	9.7	--	--	--	--	--	--	--	--
	Sulfate	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	7.2	59.3	251	1124.259	1070	15500	--	--	--	--	--	--	4130	4
	Sulfide	mg/kg	59	13.6%	51	1.8	12.475	12.65	12.6	12.725	12.9	8	30.3	49.4	82.95	99.225	164.25	194	--	--	--	--	--	--	--	--
	Total Kjeldahl Nitrogen (TKN)	mg/kg	59	76.3%	14	12.2	--	0.065	0.065	--	0.065	45	26	73.3	96.4	223.5956	141	5100	--	--	--	--	--	--	--	--
	Total Organic Carbon	mg/kg	59	98.3%	1	0.065	--	--	--	--	--	58	0.52	3800	5750	6994.907	9425	31600	--	--	--	--	--	--	--	--
Metals	Aluminum	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	4690	6930	7930	8179.831	9740	12500	100000	0	--	--	--	--	15300	0
	Antimony	mg/kg	59	62.7%	22	0.126	0.126	0.126	0.126	0.126	0.126	37	0.13	0.18	0.23	0.944324	0.655	9.5	454	0	0.3	15	6	1	0.5	9
	Arsenic	mg/kg	60	100.0%	0	--	--	--	--	--	--	60	1.7	3.45	4.55	5.94	7.05	20.9	1.8	59	1	60	20	1	7.2	13
	Barium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	154	296	367	580.8644	498	4550	100000	0	82	59	1640	3	836	9
	Beryllium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.28	0.44	0.5	0.552203	0.59	1.3	2156	0	3	0	60	0	0.89	2
	Boron	mg/kg	59	8.5%	54	3.3	6.6	6.6	6.538889	6.6	6.6	5	6.9	7.35	8.4	10.42	14.5	18.9	100000	0	--	--	--	--	11.6	1
	Cadmium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.057	0.082	0.1	0.175119	0.17	1.1	564	0	0.4	6	8	0	0.16	15
	Calcium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	4700	15400	20000	21814.92	27300	55700	--	--	--	--	--	--	82800	0
	Chromium (Total)	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	4.6	10.3	15.4	32.33051	23.6	308	498	0	2	59	40	10	16.7	21
	Chromium (VI)	mg/kg	59	47.5%	31	1	1	1.1	1.077419	1.1	1.2	28	0.46	0.6075	1.5	3.311786	4	20	71.2	0	2	11	40	0	0.251	28
	Cobalt	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	4.7	7.1	7.9	7.974576	9	13.3	2135	0	--	--	--	--	16.3	0
	Copper	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	9	14.2	16.4	20.94915	19.8	112	42177.78	0	--	--	--	--	30.5	6
	Iron	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	7770	11000	13200	13294.24	14600	19700	100000	0	--	--	--	--	19700	0
	Lead	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	6.2	11.9	24.1	62.91525	67.8	679	800	0	--	--	--	--	35.1	23
	Lithium	mg/kg	59	15.3%	50	3.657	3.657	3.657	6.14376	7.314	14.628	9	8	13.45	16.7	17.5	23.45	25.4	2271	0	--	--	--	--	26.5	0
	Magnesium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	5140	6960	8170	8180.508	9610	12000	--	--	--	--	--	--	17500	0
	Manganese	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	212	420	516	750.1186	766	4830	35170.63	0	--	--	--	--	1090	7
	Mercury	mg/kg	59	22.0%	46	0.00668	0.00668	0.00668	0.00668	0.00668	0.00668	13	0.013	0.01505	0.0329	0.057277	0.0773	0.244	341	0	--	--	--	--	0.11	1
	Molybdenum	mg/kg	59	78.0%	13	0.188	0.188	0.188	0.188	0.188	0.188	46	0.22	0.58	0.77	1.450435	1.6	8.9	5678	0	--	--	--	--	2	8
	Nickel	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	7.9	13	14.5	15.00169	16.8	32.9	22711.11	0	7	59	140	0	30	1

TABLE 1
2008 SEWER ALIGNMENT EXCAVATION SOIL RESULTS SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

					Censored (Non-Detect) Data							Detected Data[a]														
Parameter of Interest	Compound List	Units	Total Count	Detect Freq.	ND Count	Min	Q1	Median	Mean	Q3	Max	Detect Count	Min	Q1	Median	Mean	Q3	Max	Region 6 OW Soil MSSL[b]	Count of Detects > MSSL	USEPA SSL (DAF 1)[c]	Count of Detects > DAF 1	USEPA SSL (DAF 20)[c]	Count of Detects > DAF 20	Max. Bkgrnd[d]	Count of Detects > Bkgrnd
Metals	Niobium	mg/kg	59	23.7%	45	3	3	3	3.033333	3	3.75	14	3.3	4.25	13.8	16.09286	19.575	68	--	--	--	--	--	--	2.8	14
	Palladium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.21	0.38	0.48	0.540847	0.63	1.3	--	--	--	--	--	--	1.5	0
	Phosphorus	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	523	985	1190	1180.203	1350	1920	--	--	--	--	--	--	--	--
	Platinum	mg/kg	59	13.6%	51	0.048	0.048	0.048	0.048471	0.048	0.06	8	0.051	0.0565	0.097	0.104375	0.15	0.17	--	--	--	--	--	--	0.099	4
	Potassium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	779	1180	1520	1562.051	1910	3020	--	--	--	--	--	--	3890	0
	Selenium	mg/kg	59	0.0%	59	0.16	0.32	0.32	0.345763	0.32	2	0	--	--	--	--	--	--	5678	--	0.3	--	6	--	0.6	--
	Silicon	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	119	146	167	358.2712	581	1210	--	--	--	--	--	--	4150	0
	Silver	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.05	0.081	0.1	0.278288	0.15	3.9	5678	0	2	1	40	0	0.2609	10
	Sodium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	130	313	553	630.678	837	1790	--	--	--	--	--	--	1320	3
	Strontium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	79.7	158	213	229.2525	285	557	100000	0	--	--	--	--	808	0
	Sulfur	mg/kg	59	23.7%	45	1053.5	1053.5	1053.5	1053.5	1053.5	1053.5	14	1100	1317.5	2130	2600	2677.5	9470	--	--	--	--	--	--	--	--
	Thallium	mg/kg	59	28.8%	42	0.3	0.3	0.3	0.303571	0.3	0.375	17	0.35	0.405	0.76	1.348235	1.4	6.3	79.5	0	0.4	13	8	0	1.8	3
	Tin	mg/kg	59	91.5%	5	0.3	0.3	0.3	0.3	0.3	0.3	54	0.33	0.44	0.68	2.419815	1.3	37.7	100000	0	--	--	--	--	0.8	22
	Titanium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	278	424	521	804.5593	691	6730	100000	0	--	--	--	--	1010	9
	Tungsten	mg/kg	59	69.5%	18	0.5	0.5	0.5	0.5	0.5	0.5	41	0.59	1.1	2.2	6.415122	5.35	65.8	--	--	--	--	--	--	2.5	18
	Uranium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	0.41	0.75	0.88	1.362542	1.3	9.3	3407	0	--	--	--	--	2.37	7
	Vanadium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	18.6	35.3	41.2	70.42203	58.9	446	5678	0	300	2	6000	0	59.1	14
	Zinc	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	23.3	35.9	41.2	51.67797	52	181	100000	0	620	0	12400	0	121	2
	Zirconium	mg/kg	59	100.0%	0	--	--	--	--	--	--	59	8.6	13.9	17.9	30.5661	24.1	208	--	--	--	--	--	--	179	2
Organochlorine Pesticides	2,4-DDD	mg/kg	59	13.6%	51	0.00011	0.00012	0.00012	0.00019	0.00032	0.0011	8	0.0028	0.008575	0.016	0.018238	0.02375	0.048	11.1	0	0.8	0	16	0	--	--
	2,4-DDE	mg/kg	59	57.6%	25	0.000091	0.000091	0.000098	0.000187	0.00021	0.00091	34	0.0018	0.003925	0.015	0.108674	0.04775	0.7	7.8	0	3	0	60	0	--	--
	4,4-DDD	mg/kg	59	1.7%	58	0.000092	0.00016	0.00016	0.000187	0.00017	0.0016	1	0.0021	--	0.0021	0.0021	--	0.0021	11.1	0	0.8	0	16	0	--	--
	4,4-DDE	mg/kg	59	64.4%	21	0.0002	0.0002	0.00026	0.000394	0.00026	0.0026	38	0.0021	0.004175	0.012	0.066992	0.0245	0.51	7.8	0	3	0	60	0	--	--
	4,4-DDT	mg/kg	59	35.6%	38	0.00021	0.00022	0.00043	0.000527	0.00044	0.0043	21	0.0028	0.0049	0.0099	0.041652	0.0785	0.16	7.8	0	2	0	40	0	--	--
	Aldrin	mg/kg	59	3.4%	57	0.000088	0.00009	0.000091	0.000112	9.55E-05	0.00089	2	0.0022	--	0.004	0.004	--	0.0058	0.11	0	0.02	0	0.4	0	--	--
	alpha-BHC	mg/kg	59	3.4%	57	0.000097	0.000098	0.000099	0.00016	0.000105	0.00098	2	0.0017	--	0.00195	0.00195	--	0.0022	0.40	0	0.00003	2	0.0006	2	--	--
	alpha-Chlordane	mg/kg	59	0.0%	59	0.0001	0.0001	0.0001	0.000145	0.00011	0.001	0	--	--	--	--	--	--	--	--	0.5	--	10	--	--	--
	beta-BHC	mg/kg	59	23.7%	45	0.00019	0.000275	0.00035	0.000417	0.00036	0.0035	14	0.0021	0.0029	0.00375	0.004457	0.005175	0.014	1.4	0	0.0001	14	0.002	14	--	--
	Chlordane	mg/kg	59	0.0%	59	0.0023	0.0023	0.0023	0.00288	0.0024	0.023	0	--	--	--	--	--	--	7.2	--	0.5	--	10	--	--	--
	delta-BHC	mg/kg	59	0.0%	59	0.000084	0.000085	0.000086	0.000122	0.00009	0.00085	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Dieldrin	mg/kg	59	0.0%	59	0.000073	0.000074	0.000075	9.51E-05	0.000079	0.00074	0	--	--	--	--	--	--	0.12	--	0.0002	--	0.004	--	--	--
	Endosulfan I	mg/kg	59	0.0%	59	0.000084	0.000085	0.000086	0.000109	0.00009	0.00085	0	--	--	--	--	--	--	4104.042	--	0.9	--	18	--	--	--
	Endosulfan II	mg/kg	59	0.0%	59	0.000097	0.00015	0.00015	0.000174	0.00015	0.0015	0	--	--	--	--	--	--	4104.042	--	0.9	--	18	--	--	--
	Endosulfan sulfate	mg/kg	59	0.0%	59	0.00012	0.00012	0.00012	0.000176	0.00013	0.0012	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Endrin	mg/kg	59	0.0%	59	0.000084	0.000085	0.000086	0.000105	0.000088	0.00085	0	--	--	--	--	--	--	205	--	0.05	--	1	--	--	--
	Endrin aldehyde	mg/kg	59	8.5%	54	0.00011	0.00011	0.00011	0.000153	0.000138	0.0011	5	0.0019	0.0054	0.011	0.00976	0.0135	0.016	--	--	--	--	--	--	--	--
	Endrin ketone	mg/kg	59	1.7%	58	0.00017	0.00039	0.00039	0.000439	0.0004	0.0039	1	0.003	--	0.003	0.003	--	0.003	--	--	--	--	--	--	--	--
	gamma-Chlordane	mg/kg	59	10.2%	53	0.000086	0.000087	0.000088	0.000109	0.000089	0.00087	6	0.004	0.0049	0.0185	0.015533	0.02175	0.027	--	--	0.5	0	10	0	--	--
	Heptachlor	mg/kg	65	9.2%	59	0.00018	0.0006	0.0006	0.00066	0.00061	0.006	6	0.002	0.00215	0.0036	0.0052	0.00835	0.013	0.43	0	1	0	20	0	--	--
	Heptachlor epoxide	mg/kg	53	0.0%	53	0.00012	0.00012	0.00012	0.000153	0.000135	0.0012	0	--	--	--	--	--	--	0.21	--	0.03	--	0.6	--	--	--
	Lindane	mg/kg	59	0.0%	59	0.000084	0.000085	0.000086	0.000113	0.00009	0.00085	0	--	--	--	--	--	--	1.9	--	0.0005	--	0.01	--	--	--
	Methoxychlor	mg/kg	59	1.7%	58	0.00033	0.00071	0.00072	0.000809	0.00073	0.0071	1	0.0043	--	0.0043	0.0043	--	0.0043	3420.035	0	8	0	160	0	--	--
	Toxaphene	mg/kg	59	0.0%	59	0.006	0.0072	0.0073	0.008729	0.0074	0.073	0	--	--	--	--	--	--	1.7	--	2	--	40	--	--	--
Polyaromatic Hydrocarbons (PAHs)	Acenaphthene	mg/kg	59	0.0%	59	0.018	0.018	0.018	0.018864	0.019	0.034	0	--	--	--	--	--	--	32502.82	--	29	--	580	--	--	--
	Acenaphthylene	mg/kg	59	0.0%	59	0.016	0.016	0.016	0.016661	0.016	0.034	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Anthracene	mg/kg	59	0.0%	59	0.00067	0.00068	0.00069	0.001823	0.00071	0.034	0	--	--	--	--	--	--	100000	--	590	--	11800	--	--	--
	Benzo(a)anthracene	mg/kg	59	0.0%	59	0.0011	0.0012	0.0012	0.002308	0.0012	0.034	0	--	--	--	--	--	--	2.3	--	0.08	--	1.6	--	--	--
	Benzo(a)pyrene	mg/kg	59	0.0%	59	0.002	0.002	0.002	0.00312	0.0021	0.034	0	--	--	--	--	--	--	0.23	--	0.4	--	8	--	--	--
	Benzo(b)fluoranthene	mg/kg	59	0.0%	59	0.002	0.002	0.002	0.003115	0.0021	0.034	0	--	--	--	--	--	--	2.3	--	0.2	--	4	--	--	--
	Benzo(g,h,i)perylene	mg/kg	59	0.0%	59	0.0062	0.0062	0.0063	0.00728	0.0065	0.034	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Benzo(k)fluoranthene	mg/kg	59	0.0%	59	0.0023	0.0023	0.0023	0.003425	0.0024	0.034	0	--	--	--	--	--	--	23.4	--	2	--	40	--	--	--
	Chrysene	mg/kg	59	5.1%	56	0.0011	0.0011	0.0011	0.002275	0.0011	0.034	3	0.03	0.0315	0.033	0.033	0.0345	0.036	234	0	8	0	160	0	--	--
	Dibenzo(a,h)anthracene	mg/kg	59	3.4%	57	0.0037	0.0038	0.0038	0.004907	0.0039	0.034	2	0.04	--	0.043	0.043	--	0.046	0.23	0	0.08	0	1.6	0	--	--
	Indeno(1,2,3-cd)pyrene	mg/kg	59	3.4%	57	0.0019	0.0019	0.002	0.003096	0.002	0.034	2	0.018	--	0.018	0.018	--	0.018	2.3	0	0.7	0	14	0	--	--
	Phenanthrene	mg/kg	59	0.0%	59	0.0017	0.0017	0.0018	0.002858	0.0018	0.034	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pyrene	mg/kg	59	0.0%	59	0.003	0.003	0.0031	0.004134	0.0031	0.034	0	--	--	--	--	--	--	31979.38	--	210	--	4200	--	--	--
Polychlorinated Biphenyls	PCB 105 (BZ)	mg/kg	58	72.4%	16	2	2.1	2.1	2.0875	2.1	2.2	42	5.5	113.25	185	853.3095	657.5	7600	--	--	--	--	--	--	--	--
	PCB 114 (BZ)	mg/kg	58	56.9%	25	2	2	2.1	2.072	2.1	2.2	33	4.4	20.5	70	280.5879	190	2400	--	--	--	--	--	--	--	--
	PCB 118 (BZ)	mg/kg	58	79.3%	12	2	2.1	2.1	2.091667	2.1	2.2	46	2.4	140	375	1654.711	1100	17000	--	--	--	--	--	--	--	--
	PCB 123 (BZ)	mg/kg	58	44.8%	32	2	2	2.1	2.065625	2.1	2.2	26	2.2	6.975	13	37.66923	31	300	--	--	--	--	--	--	--	--
	PCB 126 (BZ)	mg/kg	58	51.7%	28	2	2	2.1	2.075	2.1	2.2	30	2.4	6.85	12.5	34.93	31.25	210	--	--	--	--	--	--	--	--

TABLE 1
2008 SEWER ALIGNMENT EXCAVATION SOIL RESULTS SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 3 of 5)

					Censored (Non-Detect) Data							Detected Data[a]														
Parameter of Interest	Compound List	Units	Total Count	Detect Freq.	ND Count	Min	Q1	Median	Mean	Q3	Max	Detect Count	Min	Q1	Median	Mean	Q3	Max	Region 6 OW Soil MSSL[b]	Count of Detects > MSSL	USEPA SSL (DAF 1)[c]	Count of Detects > DAF 1	USEPA SSL (DAF 20)[c]	Count of Detects > DAF 20	Max. Bkgrnd[d]	Count of Detects > Bkgrnd
Polychlorinated Biphenyls	PCB 156 (BZ)	mg/kg	58	70.7%	17	2	2.1	2.1	2.088235	2.1	2.2	41	2.6	34	65	254.9561	180	2200	--	--	--	--	--	--	--	--
	PCB 157 (BZ)	mg/kg	58	65.5%	20	2	2.025	2.1	2.08	2.1	2.2	38	2.6	9.475	18.5	59.25789	46.5	430	--	--	--	--	--	--	--	--
	PCB 167 (BZ)	pCi/g	58	65.5%	20	2	2.025	2.1	2.08	2.1	2.2	38	4.9	15.25	31.5	111.1658	88	750	--	--	--	--	--	--	--	--
	PCB 169 (BZ)	pCi/g	58	37.9%	36	2	2	2.1	2.063889	2.1	2.2	22	2.1	3.4	6.85	13.90455	17.25	68	--	--	--	--	--	--	--	--
	PCB 189 (BZ)	pCi/g	58	60.3%	23	2	2	2.1	2.078261	2.1	2.2	35	4.2	15	26	75.27143	75	530	--	--	--	--	--	--	--	--
	PCB 209 (BZ)	pCi/g	58	77.6%	13	2	2.05	2.1	2.084615	2.1	2.2	45	27	2150	6600	14355.27	15000	110000	--	--	--	--	--	--	--	--
	PCB 77 (BZ)	pCi/g	58	22.4%	45	2	2	2.1	2.057778	2.1	2.2	13	23	44	84	220.7692	370	1000	--	--	--	--	--	--	--	--
	PCB 81 (BZ)	pCi/g	58	22.4%	45	2	2	2.1	2.057778	2.1	2.2	13	18	44.5	120	226.5385	370	960	--	--	--	--	--	--	--	--
Radionuclides	Radium-226	pCi/g	60	90.0%	6	--	--	--	--	--	--	54	0.659	1	1.165	1.359633	1.575	3.1	0.026	60	0.0161	60	0.322	60	2.36	4
	Radium-228	pCi/g	60	96.7%	2	--	--	--	--	--	--	58	0.286	1.45	1.83	1.9392	2.3575	5.59	0.15	60	0.0595	60	1.19	54	2.94	5
	Thorium-228	pCi/g	60	96.7%	2	--	--	--	--	--	--	58	0.764	1.55	1.875	1.9701	2.175	3.38	0.26	60	3.3	2	66	0	2.28	14
	Thorium-230	pCi/g	60	98.3%	1	--	--	--	--	--	--	59	0.644	1.0025	1.19	1.373533	1.505	3.71	20.2	0	0.303	60	6.06	0	3.01	2
	Thorium-232	pCi/g	60	100.0%	0	--	--	--	--	--	--	60	0.791	1.2125	1.375	1.5002	1.7725	3.07	19	0	0.303	60	6.06	0	2.23	3
	Uranium-233/234	pCi/g	60	78.3%	13	--	--	--	--	--	--	47	0.557	1	1.175	1.465167	1.72	4.07	28.7	0	112	0	2240	0	2.84	4
	Uranium-235/236	pCi/g	60	10.0%	54	--	--	--	--	--	--	6	-0.0576	0.05685	0.106	0.105465	0.141	0.336	0.40	0	0.03885	51	0.777	0	0.21	5
	Uranium-238	pCi/g	60	100.0%	0	--	--	--	--	--	--	60	0.57	0.823	1.035	1.174083	1.435	3.04	1.8	8	0.00605	60	0.121	60	2.37	2
Semivolatile Organic Compounds	1,2,4,5-Tetrachlorobenzene	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	205	--	--	--	--	--	--	--
	1,2-Diphenylhydrazine	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	2.4	--	--	--	--	--	--	--
	1,4-Dioxane	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	174	--	--	--	--	--	--	--
	2,2'-/4,4'-Dichlorobenzil	pCi/g	57	7.0%	53	0.33	0.34	0.35	0.362075	0.37	0.77	4	0.18	0.205	0.36	0.4425	0.7625	0.87	--	--	--	--	--	--	--	--
	2,4,5-Trichlorophenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	68400.7	--	14	--	280	--	--	--
	2,4,6-Trichlorophenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	174	--	0.008	--	0.16	--	--	--
	2,4-Dichlorophenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	2052.021	--	0.05	--	1	--	--	--
	2,4-Dimethylphenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	13680.14	--	0.4	--	8	--	--	--
	2,4-Dinitrophenol	pCi/g	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	1368.014	--	0.01	--	0.2	--	--	--
	2,4-Dinitrotoluene	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	1368.014	--	0.00004	--	0.0008	--	--	--
	2,6-Dinitrotoluene	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	684	--	0.00003	--	0.0006	--	--	--
	2-Chloronaphthalene	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	26020.71	--	--	--	--	--	--	--
	2-Chlorophenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	262	--	0.2	--	4	--	--	--
	2-Methylnaphthalene	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2-Nitroaniline	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	2033	--	--	--	--	--	--	--
	2-Nitrophenol	pCi/g	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3,3'-Dichlorobenzidine	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	4.3	--	0.0003	--	0.006	--	--	--
	3-Methylphenol & 4-Methylphenol	mg/kg	59	0.0%	59	0.067	0.068	0.068	0.068966	0.07	0.073	0	--	--	--	--	--	--	3420.035	--	--	--	--	--	--	--
	3-Nitroaniline	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Bromophenyl phenyl ether	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Chloro-3-Methylphenol	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Chlorophenyl phenyl ether	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Chlorothioanisole	mg/kg	59	0.0%	59	0.0077	0.0077	0.0078	0.00788	0.008	0.0083	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Nitrophenol	mg/kg	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	5472	--	--	--	--	--	--	--
	Acetophenone	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	1741.454	--	--	--	--	--	--	--
	Aniline	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	336.0034	--	--	--	--	--	--	--
	Azobenzene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	17.4	--	--	--	--	--	--	--
	Benzenethiol	mg/kg	59	0.0%	59	0.12	0.13	0.13	0.128475	0.13	0.13	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Benzoic acid	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.044712	0.035	0.34	0	--	--	--	--	--	--	100000	--	20	--	400	--	--	--
	Benzyl alcohol	mg/kg	59	8.5%	54	0.034	0.034	0.034	0.034519	0.035	0.036	5	0.06	0.0645	0.076	0.0738	0.082	0.086	100000	0	--	--	--	--	--	--
	Benzyl butyl phthalate	mg/kg	59	1.7%	58	0.034	0.034	0.034	0.0345	0.035	0.036	1	0.065	--	0.065	0.065	--	0.065	240	0	810	0	16200	0	--	--
	bis(2-Chloroethoxy) methane	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	bis(2-Chloroethyl) ether	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	0.62	--	0.00002	--	0.0004	--	--	--
	bis(2-Chloroisopropyl) ether	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	8.2	--	--	--	--	--	--	--
	bis(2-Ethylhexyl) phthalate	mg/kg	59	3.4%	57	0.034	0.034	0.034	0.034877	0.035	0.044	2	0.036	--	0.093	0.093	--	0.15	137	0	180	0	3600	0	--	--
	bis(p-Chlorophenyl) disulfide	mg/kg	59	0.0%	59	0.034	0.21	0.21	0.205051	0.21	0.22	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	bis(p-Chlorophenyl) sulfone	mg/kg	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Carbazole	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	95.8	--	0.03	--	0.6	--	--	--
	Dibenzofuran	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	1738	--	--	--	--	--	--	--
	Dibutyl phthalate	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	68400.7	--	270	--	5400	--	--	--
	Diethyl phthalate	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	100000	--	--	--	--	--	--	--
	Dimethyl phthalate	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	100000	--	--	--	--	--	--	--
	Di-n-octyl phthalate	mg/kg	59	0.0%	59	0.015	0.015	0.015	0.015898	0.016	0.034	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Diphenyl sulfone	mg/kg	59	0.0%	59	0.0067	0.0068	0.0068	0.006883	0.007	0.0073	0	--	--	--	--	--	--	2052.021	--	--	--	--	--	--	--
	Fluoranthene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	24444.84	--	210	--	4200	--	--	--

TABLE 1
2008 SEWER ALIGNMENT EXCAVATION SOIL RESULTS SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 4 of 5)

					Censored (Non-Detect) Data							Detected Data[a]														
Parameter of Interest	Compound List	Units	Total Count	Detect Freq.	ND Count	Min	Q1	Median	Mean	Q3	Max	Detect Count	Min	Q1	Median	Mean	Q3	Max	Region 6 OW Soil MSSL[b]	Count of Detects > MSSL	USEPA SSL (DAF 1)[c]	Count of Detects > DAF 1	USEPA SSL (DAF 20)[c]	Count of Detects > DAF 20	Max. Bkgrnd[d]	Count of Detects > Bkgrnd
Semivolatile Organic Compounds	Fluorene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	26221.98	--	28	--	560	--	--	--
	Hexachloro-1,3-butadiene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	24.55413	--	0.1	--	2	--	--	--
	Hexachlorobenzene	mg/kg	59	18.6%	48	0.034	0.034	0.034	0.034542	0.035	0.036	11	0.036	0.051	0.11	0.268727	0.49	0.91	1.2	0	0.1	6	2	0	--	--
	Hexachlorocyclopentadiene	mg/kg	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	4065	--	20	--	400	--	--	--
	Hexachloroethane	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	137	--	0.02	--	0.4	--	--	--
	Hydroxymethyl phthalimide	mg/kg	59	0.0%	59	0.044	0.044	0.045	0.046153	0.046	0.083	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Isophorone	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	2016.021	--	0.03	--	0.6	--	--	--
	Naphthalene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	209	--	4	--	80	--	--	--
	Nitrobenzene	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	115	--	0.007	--	0.14	--	--	--
	N-nitrosodi-n-propylamine	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	0.27	--	0.000002	--	0.00004	--	--	--
	N-nitrosodiphenylamine	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	391	--	0.06	--	1.2	--	--	--
	o-Cresol	mg/kg	59	0.0%	59	0.034	0.12	0.12	0.119119	0.12	0.13	0	--	--	--	--	--	--	34203.48	--	0.8	--	16	--	--	--
	Octachlorostyrene	mg/kg	59	8.5%	54	0.034	0.034	0.034	0.034537	0.035	0.036	5	0.062	0.0675	0.13	0.121	0.17	0.19	--	--	--	--	--	--	--	--
	p-Chloroaniline	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	2736.028	--	0.03	--	0.6	--	--	--
	p-Chlorothiophenol	mg/kg	59	0.0%	59	0.19	0.19	0.19	0.197119	0.2	0.34	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pentachlorobenzene	mg/kg	59	3.4%	57	0.034	0.034	0.034	0.034526	0.035	0.036	2	0.047	--	0.0655	0.0655	--	0.084	547	0	--	--	--	--	--	--
	Pentachlorophenol	mg/kg	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	10.0	--	0.001	--	0.02	--	--	--
	Phenol	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.034508	0.035	0.036	0	--	--	--	--	--	--	100000	--	5	--	100	--	--	--
	Phenyl Disulfide	mg/kg	59	0.0%	59	0.029	0.029	0.03	0.029797	0.03	0.034	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Phenyl Sulfide	mg/kg	59	0.0%	59	0.0036	0.0036	0.0036	0.003658	0.0037	0.0039	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Phthalic acid	mg/kg	59	0.0%	59	0.25	0.25	0.26	0.257966	0.26	0.27	0	--	--	--	--	--	--	100000	--	--	--	--	--	--	--
	p-Nitroaniline	mg/kg	59	0.0%	59	0.33	0.34	0.34	0.342034	0.35	0.36	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pyridine	mg/kg	59	0.0%	59	0.034	0.034	0.034	0.044712	0.035	0.34	0	--	--	--	--	--	--	684	--	--	--	--	--	--	--
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	mg/kg	59	0.0%	59	0.00023	0.00023	0.00023	0.000233	0.00024	0.00025	0	--	--	--	--	--	--	7.6	--	--	--	--	--	--	--
	1,1,1-Trichloroethane	mg/kg	59	0.0%	59	0.00015	0.00015	0.00015	0.000151	0.00015	0.00016	0	--	--	--	--	--	--	1385	--	0.1	--	2	--	--	--
	1,1,2,2-Tetrachloroethane	mg/kg	59	0.0%	59	0.00014	0.00014	0.00014	0.000145	0.00015	0.00015	0	--	--	--	--	--	--	0.97	--	0.0002	--	0.004	--	--	--
	1,1,2-Trichloroethane	mg/kg	59	0.0%	59	0.00029	0.00029	0.00029	0.000294	0.0003	0.00031	0	--	--	--	--	--	--	2.1	--	0.0009	--	0.018	--	--	--
	1,1-Dichloroethane	mg/kg	59	0.0%	59	0.00096	0.00097	0.00098	0.000983	0.001	0.001	0	--	--	--	--	--	--	2333	--	1	--	20	--	--	--
	1,1-Dichloroethylene	mg/kg	59	0.0%	59	0.00055	0.00056	0.00056	0.000568	0.00058	0.0006	0	--	--	--	--	--	--	473	--	0.003	--	0.06	--	--	--
	1,1-Dichloropropene	mg/kg	59	0.0%	59	0.00029	0.0003	0.0003	0.000302	0.00031	0.00032	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1,2,3-Trichlorobenzene	mg/kg	59	3.4%	57	0.00078	0.00079	0.0008	0.000807	0.00082	0.00085	2	0.0022	--	0.00225	0.00225	--	0.0023	--	--	--	--	--	--	--	--
	1,2,3-Trichloropropane	mg/kg	59	0.0%	59	0.00056	0.00057	0.00057	0.000576	0.00058	0.00061	0	--	--	--	--	--	--	1.6	--	--	--	--	--	--	--
	1,2,4-Trichlorobenzene	mg/kg	59	5.1%	56	0.00074	0.00075	0.00075	0.00076	0.00077	0.0008	3	0.0012	0.0012	0.0013	0.001433	0.0018	0.0018	265	0	0.3	0	6	0	--	--
	1,2,4-Trimethylbenzene	mg/kg	59	3.4%	57	0.00022	0.00022	0.00022	0.000225	0.00023	0.00024	2	0.00096	--	0.000975	0.000975	--	0.00099	224	0	--	--	--	--	--	--
	1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	59	3.4%	57	0.0009	0.00091	0.00092	0.000922	0.00094	0.00097	2	0.0024	--	0.00295	0.00295	--	0.0035	0.020	0	--	--	--	--	--	--
	1,2-Dichlorobenzene	mg/kg	59	3.4%	57	0.00015	0.00015	0.00015	0.000155	0.00016	0.00016	2	0.0011	--	0.0011	0.0011	--	0.0011	373	0	0.9	0	18	0	--	--
	1,2-Dichloroethane	mg/kg	59	0.0%	59	0.00044	0.00045	0.00045	0.000454	0.00046	0.00048	0	--	--	--	--	--	--	0.84	--	0.001	--	0.02	--	--	--
	1,2-Dichloroethylene	mg/kg	59	0.0%	59	0.00055	0.00055	0.00056	0.000563	0.00057	0.00059	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1,2-Dichloropropane	mg/kg	59	0.0%	59	0.00038	0.00038	0.00038	0.000387	0.00039	0.00041	0	--	--	--	--	--	--	0.85	--	0.001	--	0.02	--	--	--
	1,3,5-Trichlorobenzene	mg/kg	59	0.0%	59	0.00068	0.00069	0.0007	0.0007	0.00071	0.00074	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1,3,5-Trimethylbenzene	mg/kg	59	3.4%	57	0.00021	0.00022	0.00022	0.000218	0.00022	0.00023	2	0.0006	--	0.00062	0.00062	--	0.00064	77.6	0	--	--	--	--	--	--
	1,3-Dichlorobenzene	mg/kg	59	3.4%	57	0.00013	0.00013	0.00013	0.000134	0.00014	0.00014	2	0.00032	--	0.00041	0.00041	--	0.0005	144	0	--	--	--	--	--	--
	1,3-Dichloropropane	mg/kg	59	0.0%	59	0.00018	0.00018	0.00018	0.000185	0.00019	0.0002	0	--	--	--	--	--	--	411	--	0.001	--	0.02	--	--	--
	1,4-Dichlorobenzene	mg/kg	59	3.4%	57	0.00011	0.00011	0.00011	0.000111	0.00011	0.00012	2	0.0014	--	0.0015	0.0015	--	0.0016	8.1	0	0.1	0	2	0	--	--
	1-Nonanal	mg/kg	59	3.4%	57	0.00089	0.0009	0.00091	0.000912	0.000925	0.00096	2	0.0053	--	0.006	0.006	--	0.0067	--	--	--	--	--	--	--	--
	2,2,3-Trimethylbutane	mg/kg	59	0.0%	59	0.00021	0.00021	0.00022	0.000217	0.00022	0.00023	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	mg/kg	59	0.0%	59	0.00017	0.00018	0.00018	0.00018	0.00018	0.00019	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,2-Dimethylpentane	mg/kg	59	0.0%	59	0.00028	0.00028	0.00028	0.000285	0.00029	0.0003	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,3-Dimethylpentane	mg/kg	59	0.0%	59	0.00023	0.00023	0.00023	0.000233	0.00024	0.00025	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2,4-Dimethylpentane	mg/kg	59	0.0%	59	0.00019	0.0002	0.0002	0.000201	0.0002	0.00021	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2-Chlorotoluene	mg/kg	59	0.0%	59	0.00046	0.00046	0.00047	0.000472	0.00048	0.0005	0	--	--	--	--	--	--	511	--	--	--	--	--	--	--
	2-Nitropropane	mg/kg	59	0.0%	59	0.0018	0.0018	0.0018	0.00181	0.0018	0.0019	0	--	--	--	--	--	--	0.34	--	--	--	--	--	--	--
	2-Phenylbutane	mg/kg	59	3.4%	57	0.00025	0.00025	0.00025	0.000255	0.00026	0.00027	2	0.0005	--	0.0005	0.0005	--	0.0005	223	0	--	--	--	--	--	--
	3,3-Dimethylpentane	mg/kg	59	0.0%	59	0.0002	0.00021	0.00021	0.000212	0.00021	0.00022	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3-Ethylpentane	mg/kg	59	0.0%	59	0.00021	0.00021	0.00022	0.000217	0.00022	0.00023	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3-Methylhexane	mg/kg	59	0.0%	59	0.00014	0.00014	0.00014	0.000144	0.00015	0.00015	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4-Chlorotoluene	mg/kg	59	0.0%	59	0.00089	0.0009	0.00091	0.000913	0.00093	0.00096	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Acetone	mg/kg	59	30.5%	41	0.0038	0.0039	0.004	0.003966	0.004	0.0042	18	0.01	0.05375	0.12	0.228222	0.2	1.3	60479.8	0	0.8	2	16	0	--	--
	Acetonitrile	mg/kg	59	0.0%	59	0.002	0.002	0.002	0.002046	0.0021	0.0022	0	--	--	--	--	--	--	2260	--	--	--	--	--	--	--
	Benzene	mg/kg	59	0.0%	59	0.00017	0.00017	0.00017	0.000175	0.00018	0.00019	0	--	--	--	--	--	--	1.6	--	0.002	--	0.04	--	--	--
	Bromobenzene	mg/kg	59	0.0%	59	0.00023	0.00023	0.00023	0.000234	0.00024	0.00025	0	--	--	--	--	--	--	118	--	--	--	--	--	--	--

TABLE 1
2008 SEWER ALIGNMENT EXCAVATION SOIL RESULTS SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

					Censored (Non-Detect) Data							Detected Data[a]														
Parameter of Interest	Compound List	Units	Total Count	Detect Freq.	ND Count	Min	Q1	Median	Mean	Q3	Max	Detect Count	Min	Q1	Median	Mean	Q3	Max	Region 6 OW Soil MSSL[b]	Count of Detects > MSSL	USEPA SSL (DAF 1)[c]	Count of Detects > DAF 1	USEPA SSL (DAF 20)[c]	Count of Detects > DAF 20	Max. Bkgrnd[d]	Count of Detects > Bkgrnd
Volatile Organic Compounds	Bromodichloromethane	mg/kg	59	0.0%	59	0.00034	0.00034	0.00034	0.000346	0.00035	0.00037	0	--	--	--	--	--	--	2.6	--	0.03	--	0.6	--	--	--
	Bromomethane	mg/kg	59	0.0%	59	0.00031	0.00032	0.00032	0.000324	0.00033	0.00034	0	--	--	--	--	--	--	14.6	--	0.01	--	0.2	--	--	--
	Carbon disulfide	mg/kg	59	0.0%	59	0.00055	0.00056	0.00057	0.000569	0.00058	0.0006	0	--	--	--	--	--	--	721	--	2	--	40	--	--	--
	Carbon tetrachloride	mg/kg	59	0.0%	59	0.00091	0.00092	0.00093	0.000936	0.00095	0.00099	0	--	--	--	--	--	--	0.58	--	0.003	--	0.06	--	--	--
	CFC-11	mg/kg	59	0.0%	59	0.00051	0.00051	0.00052	0.000521	0.00053	0.00055	0	--	--	--	--	--	--	1421	--	--	--	--	--	--	--
	CFC-12	mg/kg	59	0.0%	59	0.00038	0.00038	0.00038	0.000387	0.00039	0.00041	0	--	--	--	--	--	--	340	--	--	--	--	--	--	--
	Chlorinated fluorocarbon (Freon 113)	mg/kg	59	0.0%	59	0.00054	0.00055	0.00055	0.000555	0.00056	0.00059	0	--	--	--	--	--	--	5553	--	--	--	--	--	--	--
	Chlorobenzene	mg/kg	59	0.0%	59	0.00012	0.00013	0.00013	0.00013	0.00013	0.00014	0	--	--	--	--	--	--	503	--	0.07	--	1.4	--	--	--
	Chlorobromomethane	mg/kg	59	0.0%	59	0.00041	0.00042	0.00042	0.000426	0.00043	0.00045	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Chlorodibromomethane	mg/kg	59	0.0%	59	0.00029	0.00029	0.0003	0.000298	0.0003	0.00032	0	--	--	--	--	--	--	2.6	--	0.02	--	0.4	--	--	--
	Chloroethane	mg/kg	59	0.0%	59	0.00035	0.00036	0.00036	0.000364	0.00037	0.00038	0	--	--	--	--	--	--	7.2	--	--	--	--	--	--	--
	Chloroform	mg/kg	59	1.7%	58	0.00014	0.00014	0.00015	0.000147	0.00015	0.00016	1	0.00083	--	0.00083	0.00083	--	0.00083	0.58	0	0.03	0	0.6	0	--	--
	Chloromethane	mg/kg	59	0.0%	59	0.00045	0.00045	0.00046	0.000459	0.00047	0.00049	0	--	--	--	--	--	--	173	--	--	--	--	--	--	--
	cis-1,2-Dichloroethylene	mg/kg	59	0.0%	59	0.00043	0.00044	0.00044	0.000444	0.00045	0.00047	0	--	--	--	--	--	--	163	--	0.02	--	0.4	--	--	--
	cis-1,3-Dichloropropylene	mg/kg	59	0.0%	59	0.00073	0.00074	0.00075	0.000754	0.00077	0.0008	0	--	--	--	--	--	--	1.7	--	0.0002	--	0.004	--	--	--
	Cymene	mg/kg	59	0.0%	59	0.00024	0.00024	0.00024	0.000245	0.00025	0.00026	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Dibromomethane	mg/kg	59	0.0%	59	0.00035	0.00036	0.00036	0.000364	0.00037	0.00038	0	--	--	--	--	--	--	593	--	--	--	--	--	--	--
	Dichloromethane	mg/kg	59	23.7%	45	0.0025	0.0025	0.0026	0.002587	0.0026	0.0027	14	0.0026	0.00345	0.0041	0.00615	0.0073	0.018	22.3	0	0.001	14	0.02	0	--	--
	Ethanol	mg/kg	59	0.0%	59	0.2	0.2	0.2	0.202034	0.2	0.21	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Ethylbenzene	mg/kg	59	1.7%	58	0.00019	0.00019	0.00019	0.000193	0.0002	0.0002	1	0.0028	--	0.0028	0.0028	--	0.0028	234	0	0.7	0	14	0	--	--
	Hexane, 2-methyl-	mg/kg	59	0.0%	59	0.0002	0.00021	0.00021	0.000212	0.00021	0.00022	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	mg/kg	59	0.0%	59	0.00018	0.00018	0.00018	0.000183	0.00019	0.00019	0	--	--	--	--	--	--	580	--	--	--	--	--	--	--
	m,p-Xylene	mg/kg	59	5.1%	56	0.00057	0.00058	0.00058	0.000587	0.0006	0.00062	3	0.0018	0.0018	0.0066	0.006133	0.01	0.01	375	0	10	0	200	0	--	--
	Methyl disulfide	mg/kg	59	0.0%	59	0.00021	0.00022	0.00022	0.000222	0.00022	0.00023	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	mg/kg	59	10.2%	53	0.0014	0.0014	0.0014	0.001423	0.0014	0.0015	6	0.0032	0.005225	0.0066	0.006567	0.008175	0.0093	34092.2	0	--	--	--	--	--	--
	Methyl iodide	mg/kg	59	0.0%	59	0.00026	0.00026	0.00026	0.000265	0.00027	0.00028	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	mg/kg	59	3.4%	57	0.0016	0.0016	0.0017	0.001661	0.0017	0.0018	2	0.0059	--	0.00655	0.00655	--	0.0072	17196.36	0	--	--	--	--	--	--
	Methyl n-butyl ketone	mg/kg	59	3.4%	57	0.00028	0.00029	0.00029	0.000292	0.0003	0.00031	2	0.0074	--	0.0102	0.0102	--	0.013	--	--	--	--	--	--	--	--
	MTBE (Methyl tert-butyl ether)	mg/kg	59	0.0%	59	0.00046	0.00047	0.00047	0.000476	0.00048	0.0005	0	--	--	--	--	--	--	78.6	--	--	--	--	--	--	--
	n-Butyl benzene	mg/kg	59	3.4%	57	0.00053	0.00054	0.00055	0.000549	0.00056	0.00058	2	0.0008	--	0.000825	0.000825	--	0.00085	237	0	--	--	--	--	--	--
	n-Heptane	mg/kg	59	0.0%	59	0.00016	0.00017	0.00017	0.00017	0.00017	0.00018	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	n-Propyl benzene	mg/kg	59	0.0%	59	0.00095	0.00096	0.00097	0.000977	0.00099	0.001	0	--	--	--	--	--	--	237	--	--	--	--	--	--	--
	o-Xylene	mg/kg	59	1.7%	58	0.00031	0.00031	0.000315	0.000316	0.00032	0.00034	1	0.0038	--	0.0038	0.0038	--	0.0038	282	0	9	0	180	0	--	--
	Styrene (monomer)	mg/kg	59	0.0%	59	0.0012	0.0012	0.0012	0.001234	0.0013	0.0013	0	--	--	--	--	--	--	1734	--	0.2	--	4	--	--	--
	tert-Butyl benzene	mg/kg	59	3.4%	57	0.00027	0.00027	0.00027	0.000275	0.00028	0.00029	2	0.00041	--	0.00043	0.00043	--	0.00045	393	0	--	--	--	--	--	--
	Tetrachloroethylene	mg/kg	59	0.0%	59	0.00028	0.00028	0.00028	0.000284	0.00029	0.0003	0	--	--	--	--	--	--	1.7	--	0.003	--	0.06	--	--	--
	Toluene	mg/kg	59	1.7%	58	0.00013	0.00013	0.00013	0.000135	0.00014	0.00014	1	0.00083	--	0.00083	0.00083	--	0.00083	521	0	0.6	0	12	0	--	--
	trans-1,2-Dichloroethylene	mg/kg	59	0.0%	59	0.00022	0.00023	0.00023	0.000229	0.00023	0.00024	0	--	--	--	--	--	--	204	--	0.03	--	0.6	--	--	--
	trans-1,3-Dichloropropylene	mg/kg	59	0.0%	59	0.0002	0.00021	0.00021	0.000209	0.00021	0.00022	0	--	--	--	--	--	--	1.7	--	0.0002	--	0.004	--	--	--
	Tribromomethane	mg/kg	59	0.0%	59	0.00025	0.00025	0.00025	0.000253	0.00026	0.00027	0	--	--	--	--	--	--	242	--	0.04	--	0.8	--	--	--
	Trichloroethylene	mg/kg	59	0.0%	59	0.00036	0.00036	0.00037	0.000371	0.00038	0.00039	0	--	--	--	--	--	--	0.10	--	0.003	--	0.06	--	--	--
	Vinyl acetate	mg/kg	59	0.0%	59	0.00018	0.00018	0.00018	0.000183	0.00019	0.00019	0	--	--	--	--	--	--	1555	--	8	--	160	--	--	--
	Vinyl chloride	mg/kg	59	0.0%	59	0.00024	0.00024	0.00024	0.000245	0.00025	0.00026	0	--	--	--	--	--	--	0.86	--	0.0007	--	0.014	--	--	--
	Xylenes (total)	mg/kg	59	5.1%	56	0.00086	0.00087	0.00088	0.000889	0.0009	0.00094	3	0.0018	0.0018	0.0066	0.007467	0.014	0.014	214	0	10	0	200	0	--	--

Notes:
This table includes data only to 10 feet bgs, and does not include data from soil samples that have been excavated. Because of this, the total number of analyses does not always coincide with the total number of analyses reported in the tables in Appendix B, which include all data, regardless of depth or status.
The values used in this are simply a comparison to Region 6 MSSL values for information purposes only.
a - Range of detections include estimated values of detect results between the detection limit and reporting limit. As such some minimum detected concentrations may be below the minimum reporting limit. In these cases the respective sample results are flagged in the dataset. For radionuclides, detected data is based on the actual reported value and includes non-detect data.
b - From USEPA Region 6 medium-specific screening levels (MSSLs) table, March 2008 (and the 2007 USEPA radionuclide PRG webpage; http://epa-prgs.ornl.gov/radionuclides). Values used are outdoor worker soil MSSLs.
c - From USEPA Region 6 medium-specific screening levels (MSSLs) table, March 2008 (and the 2007 USEPA radionuclide PRG webpage; http://epa-prgs.ornl.gov/radionuclides). Value used is the soil screening level (SSL) with a dilution attenuation factor (DAF) of 1 or 20.
d - Values used are the maximum from the shallow soils background data set presented in the Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity (BRC/TIMET 2007).
e - Asbestos results shown are for long protocol structures (>10um).
f - Agency for Toxic Substances and Disease Registry (ATSDR) action level of 1.0 parts per billion (ppb).
-- = Not applicable or no value has been established.

TABLE 2
BACKGROUND COMPARISON SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 4)

Chemical	Background								Site							
	No. of Detects	Total Samples	% Detects	Min. Detect	Max. Detect	Median	Mean	Std. Dev.	No. of Detects	Total Samples	% Detects	Min. Detect	Max. Detect	Median	Mean	Std. Dev.
Aluminum	112	112	100%	3740	15300	8325	8892	2707	59	59	100%	4690	12500	7930	8180	1921
Antimony	112	49	44%	0.12	0.5	0.1649	0.1871	0.08798	59	37	63%	0.13	9.5	0.18	0.6157	1.516
Arsenic	112	112	100%	2.1	7.2	4	4.187	1.148	60	60	100%	1.7	20.9	4.55	5.94	3.932
Barium	112	112	100%	73	836	184.5	210.4	119.7	59	59	100%	154	4550	367	580.9	684.4
Beryllium	112	112	100%	0.16	0.89	0.54	0.5735	0.1552	59	59	100%	0.28	1.3	0.5	0.5522	0.185
Boron	104	78	75%	3.2	11.6	3.2	4.079	2.385	59	5	8%	6.9	18.9	3.3	3.875	2.393
Cadmium	112	8	7%	0.095	0.16	0.06455	0.06835	0.01496	59	59	100%	0.057	1.1	0.1	0.1751	0.1923
Calcium	104	104	100%	8160	82800	23650	28130	14860	59	59	100%	4700	55700	20000	21810	10750
Chromium (Total)	112	112	100%	2.6	16.7	8.9	9.012	2.917	59	59	100%	4.6	308	15.4	32.33	54.32
Chromium (VI)	104	0	0%	NA	NA	0.13	0.129	0.004202	59	28	47%	0.46	20	0.56	1.855	3.256
Cobalt	112	112	100%	3.7	16.3	8.65	8.499	2.331	59	59	100%	4.7	13.3	7.9	7.975	1.743
Copper	112	112	100%	10.1	30.5	17.7	17.6	3.789	59	59	100%	9	112	16.4	20.95	16.25
Iron	112	112	100%	5410	19700	13250	13050	3224	59	59	100%	7770	19700	13200	13290	2638
Lead	112	112	100%	3	35.1	7.55	8.871	4.48	59	59	100%	6.2	679	24.1	62.92	111.6
Lithium	104	104	100%	7.5	26.5	12.75	13.85	4.32	59	9	15%	8	25.4	1.829	5.273	6.002
Magnesium	112	112	100%	4580	17500	9575	9777	2957	59	59	100%	5140	12000	8170	8181	1783
Manganese	112	112	100%	151	1090	419	424.9	137.2	59	59	100%	212	4830	516	750.1	717.8
Molybdenum	112	112	100%	0.17	2	0.5	0.5648	0.2798	59	46	78%	0.22	8.9	0.65	1.152	1.631
Mercury	112	85	76%	0.0084	0.11	0.014	0.01745	0.0159	59	13	22%	0.013	0.244	0.00334	0.01522	0.03662
Nickel	112	112	100%	7.9	30	15.5	15.47	4.127	59	59	100%	7.9	32.9	14.5	15	3.966
Niobium	104	69	66%	1.015	1.015	1.015	0.8442	0.241	59	14	24%	3.3	68	1.5	4.975	10.26
Palladium	104	104	100%	0.14	1.5	0.4	0.4615	0.2423	59	59	100%	0.21	1.3	0.48	0.5408	0.2369
Phosphorus	104	104	100%	636	2010	1460	1415	328.1	59	59	100%	523	1920	1190	1180	285.8
Platinum	104	5	5%	0.045	0.099	0.02175	0.02411	0.01129	59	8	14%	0.051	0.17	0.024	0.0351	0.03215

TABLE 2
BACKGROUND COMPARISON SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 4)

Chemical	Background								Site							
	No. of Detects	Total Samples	% Detects	Min. Detect	Max. Detect	Median	Mean	Std. Dev.	No. of Detects	Total Samples	% Detects	Min. Detect	Max. Detect	Median	Mean	Std. Dev.
Potassium	104	104	100%	625	3890	1535	1730	732.8	59	59	100%	779	3020	1520	1562	488.3
Selenium	112	47	42%	0.1	0.6	0.07895	0.1761	0.1319	59	0	0%	NA	NA	0.16	0.1729	0.11
Silicon	104	104	100%	335	4150	720	981	780.1	59	59	100%	119	1210	167	358.3	293.7
Silver	112	8	7%	0.043	0.083	0.1305	0.1252	0.01949	59	59	100%	0.05	3.9	0.1	0.2783	0.6002
Sodium	104	104	100%	111	1320	452	485.7	285.9	59	59	100%	130	1790	553	630.7	376.2
Strontium	104	104	100%	69	808	186	222.9	132.1	59	59	100%	79.7	557	213	229.3	99.99
Thallium	112	93	83%	0.12	1.8	0.5428	0.6659	0.4238	59	17	29%	0.35	6.3	0.15	0.4965	0.9842
Tin	104	103	99%	0.2	0.8	0.485	0.4759	0.1317	59	54	92%	0.33	37.7	0.59	2.227	5.608
Titanium	112	112	100%	200	1010	511	524.6	166.9	59	59	100%	278	6730	521	804.6	981.1
Tungsten	104	104	100%	0.0175	0.0175	0.0175	0.0175	0	59	41	69%	0.59	65.8	1.1	4.534	10.27
Uranium	103	103	100%	0.43	2.7	0.94	1.001	0.3143	59	59	100%	0.41	9.3	0.88	1.363	1.359
Vanadium	112	112	100%	19.2	59.1	36.05	36.77	9.552	59	59	100%	18.6	446	41.2	70.42	77.95
Zinc	112	112	100%	15.4	121	37.8	37.71	12.85	59	59	100%	23.3	181	41.2	51.68	29.24
Zirconium	104	104	100%	60.1	179	125	126.3	26.69	59	59	100%	8.6	208	17.9	30.57	38.51
Radium-226	104	104	100%	0.494	2.36	1.065	1.112	0.3472	60	54	90%	0.659	3.1	1.165	1.36	0.5528
Radium-228	84	84	100%	0.946	2.94	1.96	1.916	0.4046	60	58	97%	0.794	5.59	1.83	1.939	0.8061
Thorium-228	112	112	100%	1.15	2.28	1.735	1.709	0.2702	60	58	97%	0.976	3.38	1.875	1.97	0.634
Thorium-230	112	112	100%	0.66	3.01	1.195	1.256	0.3922	60	59	98%	0.644	3.71	1.19	1.374	0.6226
Thorium-232	112	112	100%	1.05	2.23	1.6	1.633	0.2612	60	60	100%	0.791	3.07	1.375	1.5	0.4485
Uranium-233/234	112	112	100%	0.47	2.84	1.02	1.142	0.4551	60	47	78%	0.611	4.07	1.175	1.465	0.7073
Uranium-235/236	112	50	45%	0.037	0.21	0.0595	0.06862	0.03742	60	6	10%	0.126	0.306	0.106	0.1055	0.08044
Uranium-238	112	112	100%	0.57	2.37	1.02	1.114	0.3666	60	60	100%	0.57	3.04	1.035	1.174	0.5258

Note: Summary and background comparison statistics were performed using one-half the detection limit for metals and using GiSdT® (Neptune and Company 2007).
BOLD with Highlight indicates Site concentrations are greater than background.
WRS = Wilcoxon Rank Sum Test with the Gehan Modification

TABLE 2
BACKGROUND COMPARISON SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Chemical	T Test *p*	Quantile Test *p*	Slippage Test *p*	WRS Test *p*	Greater than Background?	Units	Basis
Aluminum	0.9759	0.9976	1	0.9089	NO	mg/kg	Multiple tests
Antimony	0.0171	0.01046	0.00004518	0.9991	YES	mg/kg	Multiple tests
Arsenic	0.0006208	0.003858	4.442E-07	0.003928	YES	mg/kg	Multiple tests
Barium	0.00005816	4.54E-11	0.00004518	0	YES	mg/kg	Multiple tests
Beryllium	0.7739	0.9921	0.1177	0.9111	NO	mg/kg	Multiple tests
Boron	0.6988	0.9673	0.362	3.22E-14	NO	mg/kg	Multiple tests; low detection frequency; detection limits in background are lower than those at the site
Cadmium	0.00003785	8.957E-10	3.141E-08	0.9952	YES	mg/kg	Multiple tests
Calcium	0.9989	0.9359	1	0.9952	NO	mg/kg	Multiple tests
Chromium (Total)	0.0008398	8.571E-13	1.221E-11	1.066E-12	YES	mg/kg	Multiple tests
Chromium (VI)	0.00007186	2.264E-15	NA	0	YES	mg/kg	Background are non-detect
Cobalt	0.9504	0.9921	1	0.9438	NO	mg/kg	Multiple tests
Copper	0.06194	0.6871	0.001418	0.8435	NO	mg/kg	Multiple tests
Iron	0.2983	0.8931	1	0.4612	NO	mg/kg	Multiple tests
Lead	0.000227	1.34E-17	7.679E-13	0	YES	mg/kg	Multiple tests
Lithium	1	0.9997	1	1	NO	mg/kg	Multiple tests; low detection frequency; site max detect and median are less than background
Magnesium	1	1	1	0.9998	NO	mg/kg	Multiple tests
Manganese	0.0005201	0.00001059	0.0004554	0.00000488	YES	mg/kg	Multiple tests
Molybdenum	0.004024	0.0007816	0.0001444	0.01794	YES	mg/kg	Multiple tests
Mercury	0.6711	0.9966	0.345	1	NO	mg/kg	Multiple tests
Nickel	0.7666	0.9482	0.345	0.8485	NO	mg/kg	Multiple tests
Niobium	0.001529	2.203E-07	1.917E-18	0	YES	mg/kg	Multiple tests
Palladium	0.02191	0.2649	1	0.00323	NO	mg/kg	Multiple tests; maximum detect less than maximum background
Phosphorus	1	1	1	1	NO	mg/kg	Multiple tests
Platinum	0.006738	0.01216	0.01606	0	YES	mg/kg	Multiple tests

TABLE 2
BACKGROUND COMPARISON SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 4 of 4)

Chemical	T Test *p*	Quantile Test *p*	Slippage Test *p*	WRS Test *p*	Greater than Background?	Units	Basis
Potassium	0.9591	0.9359	1	0.8341	NO	mg/kg	Multiple tests
Selenium	0.5677	1	1	5.729E-14	NO	mg/kg	Non-detect at the site
Silicon	1	1	1	1	NO	mg/kg	Multiple tests
Silver	0.02746	0.00001395	0.00007517	1	YES	mg/kg	Multiple tests
Sodium	0.005874	0.04114	0.04588	0.008632	YES	mg/kg	Max site detect, site median and mean are greater than background
Strontium	0.3658	0.2649	1	0.08791	NO	mg/kg	Multiple tests
Thallium	0.8944	0.8764	0.0397	1	YES	mg/kg	Mulitple tests; low detection frequency
Tin	0.009845	0.000001308	9.542E-12	0.0002996	YES	mg/kg	Multiple tests
Titanium	0.01678	0.1616	0.00004518	0.1346	YES	mg/kg	Max site detect is greater than six times the background max detect
Tungsten	0.0006515	1.067E-24	4.281E-37	0	YES	mg/kg	Multiple tests
Uranium	0.02422	0.01912	0.00573	0.5849	YES	mg/kg	Multiple tests
Vanadium	0.0008133	0.002548	1.096E-07	0.0000655	YES	mg/kg	Multiple tests
Zinc	0.0004122	0.01888	0.1177	0.0003611	YES	mg/kg	Multiple tests
Zirconium	1	1	0.1296	1	NO	mg/kg	Multiple tests
Radium-226	0.01142	0.008012	0.01679	0.002299	NO	pCi/g	In the decay chain of Uranium-238
Radium-228	0.4362	0.04002	0.01135	0.7182	NO	pCi/g	In the decay chain of Thorium-232
Thorium-228	0.003607	0.0003407	1.313E-07	0.005698	NO	pCi/g	In the decay chain of Thorium-232
Thorium-230	0.1132	0.4232	0.1204	0.3053	NO	pCi/g	In the decay chain of Uranium-238
Thorium-232	0.981	0.8217	0.04106	0.9997	NO	pCi/g	Multiple tests
Uranium-233/234	0.02733	0.001986	0.01385	0.0001683	NO	pCi/g	In the decay chain of Uranium-238
Uranium-235/236	0.184	0.9999	0.1124	0.00008522	NO	pCi/g	Multiple tests; low detection frequency
Uranium-238	0.2156	0.4232	0.1204	0.5915	NO	pCi/g	Multiple tests

Note: Summary and background comparison statistics were performed using one-half the detection limit for metals and using GiSdT® (Neptune and Company 2007).
BOLD with Highlight indicates Site concentrations are greater than background.
WRS = Wilcoxon Rank Sum Test with the Gehan Modification

TABLE 3
CHEMICALS OF POTENTIAL CONCERN (COPC) SELECTION
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 3)

Chemical[a]	Units	Number of Detects	Total Count	Detect Freq.	Minimum Detect	Maximum Detect	Greater than Background?	PBT(1) or Class A Carcinogen?	COPC?	Rationale
Dioxins / Furans										
TCDD TEQ	mg/kg	--	60	--	0.00000023	0.000984	N/A	Yes	Yes	(1)(3)(10)
Inorganics										
Aluminum	mg/kg	59	59	100%	4690	12500	NO	No	No	(5)(6)
Antimony	mg/kg	37	59	63%	0.13	9.5	YES	No	Yes	(5)(9)
Arsenic	mg/kg	60	60	100%	1.7	20.9	YES	Yes	Yes	(5)(9)
Asbestos	Structures	16	52	31%	1	10	N/A	Yes	Yes	(1)(5)
Barium	mg/kg	59	59	100%	154	4550	YES	No	Yes	(5)(9)
Beryllium	mg/kg	59	59	100%	0.28	1.3	NO	No	No	(5)(6)
Boron	mg/kg	5	59	8%	6.9	18.9	NO	No	No	(5)(6)
Bromide	mg/kg	3	59	5%	0.58	2.2	NA	No	No	(11)
Cadmium	mg/kg	59	59	100%	0.057	1.1	YES	No	Yes	(5)(9)
Calcium	mg/kg	59	59	100%	4700	55700	NO	No	No	(5)(6)
Chloride	mg/kg	59	59	100%	1.4	3820	N/A	No	No	(11)
Chlorate	mg/kg	24	59	41%	1.3	16.2	N/A	No	No	(11)
Chlorite	mg/kg	59	59	100%	81	99	N/A	No	No	(11)
Chromium (Total)	mg/kg	59	59	100%	4.6	308	YES	No	Yes	(5)(9)
Chromium (VI)	mg/kg	28	59	47%	0.46	20	YES	Yes	Yes	(5)(9)
Cobalt	mg/kg	59	59	100%	4.7	13.3	NO	No	No	(5)(6)
Copper	mg/kg	59	59	100%	9	112	NO	No	No	(5)(6)
Cyanide (Total)	mg/kg	11	58	19%	0.084	0.28	N/A	No	Yes	(5)
Fluoride	mg/kg	56	59	95%	0.55	8.5	N/A	No	Yes	(5)
Iron	mg/kg	59	59	100%	7770	19700	NO	No	No	(5)(6)
Lead	mg/kg	59	59	100%	6.2	679	YES	Yes	No	(13)
Lithium	mg/kg	9	59	15%	8	25.4	NO	No	No	(11)
Magnesium	mg/kg	59	59	100%	5140	12000	NO	No	No	(5)(6)
Manganese	mg/kg	59	59	100%	212	4830	YES	Yes	Yes	(5)(9)
Mercury	mg/kg	13	59	22%	0.013	0.244	NO	No	No	(5)(6)
Molybdenum	mg/kg	46	59	78%	0.22	8.9	YES	No	Yes	(5)(9)
Nickel	mg/kg	59	59	100%	7.9	32.9	NO	No	No	(5)(6)
Niobium	mg/kg	14	59	24%	3.3	68	YES	No	No	(11)
Nitrate (as N)	mg/kg	59	59	100%	0.64	441	N/A	No	Yes	(5)(9)
Nitrite (as N)	mg/kg	7	59	12%	0.077	0.98	N/A	No	Yes	(5)(9)
Orthophosphate as P	mg/kg	12	59	20%	1.5	22.1	N/A	No	No	(11)
Palladium	mg/kg	59	59	100%	0.21	1.3	NO	No	No	(5)(6)
Perchlorate	mg/kg	57	59	97%	0.0064	13.8	N/A	No	Yes	(5)
Phosphorus	mg/kg	59	59	100%	523	1920	NO	No	No	(5)(6)
Platinum	mg/kg	8	59	14%	0.051	0.17	YES	No	No	(11)
Potassium	mg/kg	59	59	100%	779	3020	NO	No	No	(5)(6)
Silicon	mg/kg	59	59	100%	119	1210	NO	No	No	(5)(6)

TABLE 3
CHEMICALS OF POTENTIAL CONCERN (COPC) SELECTION
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Chemical[a]	Units	Number of Detects	Total Count	Detect Freq.	Minimum Detect	Maximum Detect	Greater than Background?	PBT(1) or Class A Carcinogen?	COPC?	Rationale
Silver	mg/kg	59	59	100%	0.05	3.9	YES	No	Yes	(5)(9)
Sodium	mg/kg	59	59	100%	130	1790	YES	No	No	(11)
Strontium	mg/kg	59	59	100%	79.7	557	NO	No	No	(5)(6)
Sulfate	mg/kg	59	59	100%	7.2	15500	N/A	No	No	(11)
Sulfide	mg/kg	8	59	14%	30.3	194	N/A	No	No	(11)
Sulfur	mg/kg	14	59	24%	1100	9470	N/A	No	No	(11)
Thallium	mg/kg	17	59	29%	0.35	6.3	YES	No	Yes	(5)(9)
Tin	mg/kg	54	59	92%	0.33	37.7	YES	No	Yes	(5)(9)
Titanium	mg/kg	59	59	100%	278	6730	YES	No	Yes	(5)(9)
Total Kjeldahl Nitrogen (TKN)	mg/kg	45	59	76%	26	5100	N/A	No	No	(11)
Tungsten	mg/kg	41	59	69%	0.59	65.8	YES	No	No	(11)
Uranium	mg/kg	59	59	100%	0.41	9.3	YES	No	Yes	(5)(9)
Vanadium	mg/kg	59	59	100%	18.6	446	YES	No	Yes	(5)(9)
Zinc	mg/kg	59	59	100%	23.3	181	YES	No	Yes	(5)(9)
Zirconium	mg/kg	59	59	100%	8.6	208	NO	No	No	(5)(6)
Organochlorine Pesticides										
2,4-DDE	mg/kg	34	59	58%	0.0018	0.7	N/A	Yes	Yes	(1)(5)
2,4-DDD	mg/kg	8	59	14%	0.0028	0.048	N/A	Yes	Yes	(1)(5)
4,4-DDD	mg/kg	1	59	2%	0.0021	0.0021	N/A	Yes	Yes	(7)
4,4-DDE	mg/kg	38	59	64%	0.0021	0.51	N/A	Yes	Yes	(1)(5)
4,4-DDT	mg/kg	21	59	36%	0.0028	0.16	N/A	Yes	Yes	(1)(5)
beta-BHC	mg/kg	14	59	24%	0.0021	0.014	N/A	No	Yes	(5)
Endrin aldehyde	mg/kg	5	59	8%	0.0019	0.016	N/A	No	Yes	(5)
Endrin ketone	mg/kg	1	59	2%	0.003	0.003	N/A	No	No	(4)
Heptachlor epoxide	mg/kg	0	53	0%	--	--	N/A	Yes	No	(4)
Methoxychlor	mg/kg	1	59	2%	0.0043	0.0043	N/A	No	No	(4)
Octachlorostyrene	mg/kg	5	59	8%	0.062	0.19	N/A	Yes	No	(11)
Semi-Volatile Organic Compounds										
Benzyl alcohol	mg/kg	5	59	8%	0.06	0.086	N/A	No	Yes	(5)
bis(2-Ethylhexyl) phthalate	mg/kg	2	59	3%	0.036	0.15	N/A	No	No	(4)
Benzyl butyl phthalate	mg/kg	1	59	2%	0.065	0.065	N/A	No	No	(4)
Hexachlorobenzene	mg/kg	11	59	19%	0.036	0.91	N/A	Yes	Yes	(1)(5)
1-Nonanal	mg/kg	2	59	3%	0.0053	0.0067	N/A	No	No	(4)
Volatile Organic Compounds										
Acetone	mg/kg	18	59	31%	0.01	1.3	N/A	No	Yes	(5)
Acetaldehyde	mg/kg	30	59	51%	0.046	0.22	N/A	No	Yes	(5)
Ammonia	mg/kg	20	59	34%	0.51	2.1	N/A	No	Yes	(5)
Chloroform	mg/kg	1	59	2%	0.00083	0.00083	N/A	No	No	(4)
Dichloromethane	mg/kg	14	59	24%	0.0026	0.018	N/A	No	Yes	(5)
Ethylbenzene	mg/kg	1	59	2%	0.0028	0.0028	N/A	No	No	(4)

TABLE 3
CHEMICALS OF POTENTIAL CONCERN (COPC) SELECTION
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Chemical[a]	Units	Number of Detects	Total Count	Detect Freq.	Minimum Detect	Maximum Detect	Greater than Background?	PBT(1) or Class A Carcinogen?	COPC?	Rationale
Formaldehyde	mg/kg	20	59	34%	0.35	1.4	N/A	No	Yes	(5)
m,p-Xylene	mg/kg	3	59	5%	0.0018	0.01	N/A	No	Yes	(5)
Methyl ethyl ketone	mg/kg	6	59	10%	0.0032	0.0093	N/A	No	Yes	(5)
o-Xylene	mg/kg	1	59	2%	0.0038	0.0038	N/A	No	No	(4)
Toluene	mg/kg	1	59	2%	0.00083	0.00083	N/A	No	No	(4)
Xylenes (total)	mg/kg	3	59	5%	0.0018	0.014	N/A	No	No	(8)
Polynuclear Aromatic Hydrocarbons										
Benzo(a)anthracene	mg/kg	0	59	0%	--	--	N/A	No	Yes	(12)
Benzo(a)pyrene	mg/kg	0	59	0%	--	--	N/A	No	Yes	(12)
Benzo(b)fluoranthene	mg/kg	0	59	0%	--	--	N/A	No	Yes	(12)
Benzo(k)fluoranthene	mg/kg	0	59	0%	--	--	N/A	No	Yes	(12)
Chrysene	mg/kg	3	59	5%	0.03	0.036	N/A	No	Yes	(5)
Dibenzo(a,h)anthracene	mg/kg	2	59	3%	0.04	0.046	N/A	No	Yes	(12)
Indeno(1,2,3-cd)pyrene	mg/kg	2	59	3%	0.018	0.018	N/A	No	Yes	(12)
Radionuclides										
Radium-226	pCi/g	54	60	90%	0.659	3.1	NO	No	No	(6)
Radium-228	pCi/g	58	60	97%	0.286	5.59	NO	Yes	No	(6)
Thorium-228	pCi/g	58	60	97%	0.764	3.38	NO	Yes	No	(6)
Thorium-230	pCi/g	59	60	98%	0.644	3.71	NO	No	No	(6)
Thorium-232	pCi/g	60	60	100%	0.791	3.07	NO	Yes	No	(6)
Uranium-233/234	pCi/g	47	60	78%	0.557	4.07	NO	No	No	(6)
Uranium-235/236	pCi/g	6	60	10%	-0.0576	0.336	NO	Yes	No	(6)
Uranium-238	pCi/g	60	60	100%	0.57	3.04	NO	No	No	(6)

N/A - Data are not available for this chemical in the background data set. Background comparison was not applicable for this chemical.
Highlight indicates selected as COPC.
[a] - Only detected chemicals are included in the COPC selection table.
(1) Persistent, Bioaccumulative, and Toxic (PBT) Program.
(2) Not detected.
(3) Dioxin congeners are not evaluated separately. Dioxins are evaluated as TCDD TEQ.
(4) Chemical detected in less than 5 percent of the samples and is not a PBT or Class A carcinogen.
(5) Chemical detected in greater than 5 percent of samples.
(6) Chemical concentrations are equivalent to background.
(7) Chemical detected in less than 5 percent of the samples, but is a PBT or Class A carcinogen.
(8) Xylenes are evaluated as individual xylene isomers (ortho-, meta-, and para-) data instead of total xylene data.
(9) Chemical concentrations are above background.
(10) Individual dioxin/furan congeners are considered as COPCs and are evaluated further as TCDD TEQ.
(11) No toxicity criteria or applicable surrogate criteria are available.
(12) If one carcinogenic PAH is selected as a COPC, then all carcinogenic PAHs are selected as COPCs.
(13) Lead detections below screening level of 800 mg/kg are not evaluated.

TABLE 4
EXPOSURE POINT CONCENTRATIONS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Chemical	Number of Samples	Number of Detections	Percent Detected	Minimum Detection	Maximum Detection	95% UCL 0-10 ft bgs	UCL Calc Method	95% UCL 0-2 ft bgs	UCL Calc Method	EPC[1]
Dioxins / Furans										
TCDD TEQ	60	--	--	0.00000023	0.00098	0.00018	BcaUCL	0.00022	BcaUCL	0.00022
Inorganics										
Antimony	59	37	63%	0.13	9.5	1.1	BcaUCL	1.29	BcaUCL	1.3
Arsenic	60	60	100%	1.7	20.9	7.0	BcaUCL	7.28	BcaUCL	7.3
Barium	59	59	100%	154	4550	787.0	BcaUCL	867	BcaUCL	867
Cadmium	59	59	100%	0.057	1.1	0.2	BcaUCL	0.26	BcaUCL	0.26
Chromium (Total)	59	59	100%	4.6	308	48.1	BcaUCL	57	BcaUCL	57
Chromium (VI)	59	28	47%	0.46	20	3.0	BcaUCL	3.41	BcaUCL	3.4
Lead	59	59	100%	6.2	679	100.8	BcaUCL	117	BcaUCL	117
Manganese	59	59	100%	212	4830	971.9	BcaUCL	1083	BcaUCL	1083
Molybdenum	59	46	78%	0.22	8.9	1.6	BcaUCL	1.87	BcaUCL	1.9
Silver	59	59	100%	0.05	3.9	0.5	BcaUCL	0.56	BcaUCL	0.56
Thallium	59	17	29%	0.35	6.3	0.8	BcaUCL	0.96	BcaUCL	0.96
Tin	59	54	92%	0.33	37.7	4.1	BcaUCL	5.05	BcaUCL	5.1
Titanium	59	59	100%	278	6730	1162.0	BcaUCL	1300	BcaUCL	1300
Tungsten	59	41	69%	0.59	65.8	7.7	BcaUCL	9.18	BcaUCL	9
Uranium	59	59	100%	0.41	9.3	1.7	BcaUCL	1.84	BcaUCL	2
Vanadium	59	59	100%	18.6	446	96.7	BcaUCL	103	BcaUCL	103
Zinc	59	59	100%	23.3	181	59.8	BcaUCL	64	BcaUCL	64
Perchlorate	59	57	97%	0.0064	13.8	1.7	BcaUCL	1.96	BcaUCL	2.0
Ammonia	59	20	34%	0.51	2.1	0.6	BcaUCL	0.65	BcaUCL	0.7
Cyanide (Total)	58	11	19%	0.084	0.28	0.1	BcaUCL	0.08	BcaUCL	0.08
Fluoride	59	56	95%	0.55	8.5	2.6	BcaUCL	2.63	BcaUCL	2.6
Nitrate (as N)	59	59	100%	0.64	441	66.8	BcaUCL	77	BcaUCL	77
Nitrite (as N)	59	7	12%	0.077	0.98	1.4	BcaUCL	1.66	BcaUCL	0.98
Organochlorine Pesticides										
2,4-DDD	59	8	14%	0.0028	0.048	0.0051	BcaUCL	0.00668	BcaUCL	0.0067
2,4-DDE	59	34	58%	0.0018	0.7	0.1076	BcaUCL	0.13250	BcaUCL	0.1325
4,4-DDD	59	1	2%	0.0021	0.0021	0.0003	BcaUCL	0.00030	BcaUCL	0.0003
4,4-DDE	59	38	64%	0.0021	0.51	0.0736	BcaUCL	0.09588	BcaUCL	0.0959
4,4-DDT	59	21	36%	0.0028	0.16	0.0246	BcaUCL	0.02996	BcaUCL	0.0300
beta-BHC	59	14	24%	0.0021	0.014	0.0019	BcaUCL	0.00224	BcaUCL	0.0022
Endrin aldehyde	59	5	8%	0.0019	0.016	0.0018	BcaUCL	0.00211	BcaUCL	0.0021

TABLE 4
EXPOSURE POINT CONCENTRATIONS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Chemical	Number of Samples	Number of Detections	Percent Detected	Minimum Detection	Maximum Detection	95% UCL 0-10 ft bgs	UCL Calc Method	95% UCL 0-2 ft bgs	UCL Calc Method	EPC[1]
Polynuclear Aromatic Hydrocarbons										
Benzo(a)anthracene	59	0	0%	NA	NA	0.0020	BcaUCL	0.00199	BcaUCL	0.0020
Benzo(a)pyrene	59	0	0%	NA	NA	0.0024	BcaUCL	0.00238	BcaUCL	0.0024
Benzo(b)fluoranthene	59	0	0%	NA	NA	0.0024	BcaUCL	0.00237	BcaUCL	0.0024
Benzo(k)fluoranthene	59	0	0%	NA	NA	0.0028	BcaUCL	0.00279	BcaUCL	0.0028
Chrysene	59	3	5%	0.03	0.036	0.0049	BcaUCL	0.00491	BcaUCL	0.0049
Dibenzo(a,h)anthracene	59	2	3%	0.04	0.046	0.0065	BcaUCL	0.00648	BcaUCL	0.0065
Indeno(1,2,3-cd)pyrene	59	2	3%	0.018	0.018	0.0032	BcaUCL	0.00376	BcaUCL	0.0038
Aldehydes										
Acetaldehyde	59	30	51%	0.046	0.22	0.1400	BcaUCL	0.14060	tstrapPercentileU	0.14
Formaldehyde	59	20	34%	0.35	1.4	0.4995	BcaUCL	0.49030	BcaUCL	0.50
Volatile Organic Compounds										
Acetone	59	18	31%	0.01	1.3	0.1285	BcaUCL	0.17200	BcaUCL	0.17
Dichloromethane	59	14	24%	0.0026	0.018	0.0034	BcaUCL	0.00389	BcaUCL	0.0039
m,p-Xylene	59	3	5%	0.0018	0.01	0.0013	BcaUCL	0.00129	BcaUCL	0.0013
Methyl ethyl ketone	59	6	10%	0.0032	0.0093	0.0018	BcaUCL	0.00201	BcaUCL	0.0020
Semivolatile Organic Compounds										
Benzyl alcohol	59	5	8%	0.06	0.086	0.0268	BcaUCL	0.02675	BcaUCL	0.0268
Hexachlorobenzene	59	11	19%	0.036	0.91	0.1106	BcaUCL	0.13550	BcaUCL	0.1355

95% UCL is the maximum of Students-t, Bootstrap percentile, and Bootstrap Bca tests
1 - The EPC is either the maximum of the 0-2 ft or 0-10 ft 95 UCLs unless it exceeds the maximum detection concentration, then it is the maximum detected concentration.
EPC - Exposure point concentration.
UCL - Upper Confidence Limit
Units are in mg/kg.

TABLE 5
HEALTH RISK ASSESSMENT EXPOSURE FACTORS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 1)

Parameter	Abbrev.	Value	Units	Reference
Dermal absorption fraction	ABS	---chemical-specific---		USEPA 2004d
Construction worker dermal adherence factor	AF_{cw}	0.3	mg/cm^2	USEPA 2004d
Maintenance worker dermal adherence factor	AF_{mw}	0.2	mg/cm^2	USEPA 2004d
Averaging time, carcinogenic	AT_c	70	years	USEPA 2002b
Averaging time, non-carcinogenic, construction worker	$AT_{nc,cw}$	1	years	Based on ED
Averaging time, non-carcinogenic, maintenance worker	$AT_{nc,mw}$	25	years	Based on ED
Maintenance worker soil exposure frequency	EF_{mw}	225	days/year	USEPA 2002b
Maintenance worker soil exposure duration	ED_{mw}	25	years	USEPA 2002b
Construction worker soil exposure frequency	EF_{cw}	250	days/year	USEPA 2002b
Construction worker soil exposure duration	ED_{cw}	1	years	(1)
Adult body weight	BW_a	70	kg	USEPA 2002b
Adult inhalation rate	IR_a	20	m^3/day	USEPA 2002b
Construction worker exposed surface area	SA_{cw}	3,300	cm^2/day	USEPA 2004d
Construction worker soil ingestion rate	IR_{cw}	330	mg/day	USEPA 2002b
Maintenance worker exposed surface area	SA_{mw}	3,300	cm^2/day	USEPA 2004d
Maintenance worker soil ingestion rate	IR_{mw}	100	mg/day	USEPA 2002b
Radionuclide-specific factors				
Exposure time fraction, indoors	ET_i	0	unitless	(2)
Exposure time fraction, outdoors	ET_o	0.33	unitless	(2)
Area correction factor	ACF_{cw}	0.9	unitless	USEPA 2008c
Gamma shielding factor	GSF	0.4	unitless	USEPA 2008c

(1) Based on site data. A one-year exposure duration is appropriate for carcinogenic effects, because the methodology averages exposures over a lifetime (see USEPA 2002b).

(2) Assumes worker spends 100% of time outdoors, 8 hours a day.

TABLE 6
UNCERTAINTY ANALYSIS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Source of Uncertainty	May Underestimate Risk	May Overestimate Risk	May Under or Overestimate Risk
Environmental Sampling and Analysis			
Sampling and laboratory analyses may have been inadequate to fully characterize the concentrations at the site.			Moderate
Systematic or random errors in the chemical analyses may yield erroneous data.			Low
The risk estimates are based on the COPCs only. Other chemicals were not quantified.	Moderate		
Exposure Assumptions			
Fate and transport modeling did not take into account biodegradation or other degradation processes.		Moderate	
Modeling did not take into account interactions that may occur among the different chemicals which may influence their migration		Moderate	
Only primary receptors of concern were evaluated. Other populations (*e.g.*, trespassers) were not assessed.	Low		
Only primary exposure pathways were evaluated. Other pathways were not assessed.	Low		
Some of the exposure point concentrations used in the exposure assessment were based on modeled, rather than measured, levels in various media (*e.g.*, air).			Moderate

TABLE 6
UNCERTAINTY ANALYSIS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Source of Uncertainty	May Underestimate Risk	May Overestimate Risk	May Under or Overestimate Risk
Reasonable maximum exposure values were combined to arrive at the ADD and LADD estimates. There is a low probability that all of the various upper bound assumptions used in the exposure assessment would occur at the point of maximum chemical concentration.		Moderate	
Exposure point concentrations and the amount of media intake were assumed to be constant over time.		Low	
Toxicological Data			
RfDs are derived and extrapolated from laboratory animal studies that expose animals to relatively high intakes. Errors are inherent in the extrapolation of data from animals to humans, from high to low doses, and from one exposure route to another.			Moderate
RfDs used to estimate non-carcinogenic risk are derived from NOAELs which are based on the sensitive endpoints in the sensitive species. As a result, extrapolation of toxicity data from animals to humans is uncertain. There may be differences in metabolism, uptake, or distribution of chemicals in the body between animals and humans. To account for this, NOAELs are divided by uncertainty factors spanning several orders of magnitude to establish the RfD. The combination of these two conservative assumptions may establish RfDs which greatly overprotect human health.		Moderate	

TABLE 6
UNCERTAINTY ANALYSIS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Source of Uncertainty	May Underestimate Risk	May Overestimate Risk	May Under or Overestimate Risk
CSFs used for the animal carcinogens are the 95% UCL derived from the linearized multistage model using animal chronic bioassay data, which tends to greatly overestimate carcinogenic risk in humans. The linearized multistage model ignores many known factors that have been documented to protect humans against the carcinogenic actions of chemicals, such as DNA repair and immunosurveillence.		High	
RfDs, CSFs and defensible carcinogenicity data were not available for some COPCs, which were therefore not quantitatively evaluated.	Low		

TABLE 7
CHEMICAL RISK SUMMARY FOR CONSTRUCTION WORKER RECEPTORS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Chemical	Soil Concentration (mg/kg)	Oral HQ	Dermal HQ	Outdoor Inhal HQ	Total HI	Oral ILCR	Dermal ILCR	Outdoor Inhal ILCR	Total ILCR
Dioxins / Furans									
TCDD TEQ	2.2 E-4	1.1 E-2	3.2 E-3	NA	0.01	5 E-7	4 E-9	4 E-8	5 E-7
Inorganics									
Antimony	1.3 E+0	1.0 E-2	0.0 E+0	3.0 E-4	0.01	NA	NA	NA	NA
Arsenic	7.3 E+0	2.4 E-2	7.1 E-3	2.2 E-3	0.03	2 E-7	1 E-9	1 E-7	3 E-7
Barium	8.7 E+2	1.4 E-2	0.0 E+0	4.0 E-4	0.01	NA	NA	NA	NA
Cadmium	2.6 E-1	8.5 E-4	2.5 E-6	NA	0.0008	NA	NA	2 E-9	2 E-9
Chromium (Total)	5.7 E+1	1.2 E-4	0.0 E+0	NA	0.0001	NA	NA	NA	NA
Chromium (VI)	3.4 E+0	3.7 E-3	0.0 E+0	1.1 E-2	0.01	NA	NA	1 E-6	1 E-6
Manganese	1.1 E+3	2.5 E-2	0.0 E+0	7.0 E-1	0.7	NA	NA	NA	NA
Molybdenum	1.9 E+0	1.2 E-3	0.0 E+0	NA	0.001	NA	NA	NA	NA
Silver	5.6 E-1	3.6 E-4	0.0 E+0	NA	0.0004	NA	NA	NA	NA
Thallium	9.6 E-1	4.7 E-2	0.0 E+0	NA	0.05	NA	NA	NA	NA
Tin	5.1 E+0	2.7 E-5	0.0 E+0	NA	0.00003	NA	NA	NA	NA
Titanium	1.3 E+3	1.0 E-3	0.0 E+0	1.4 E-2	0.02	NA	NA	NA	NA
Tungsten	9.2 E+0	NA	NA	NA	NA	NA	NA	NA	NA
Uranium	1.8 E+0	3.0 E-3	0.0 E+0	2.0 E-3	0.005	NA	NA	NA	NA
Vanadium	1.0 E+2	4.8 E-2	0.0 E+0	NA	0.05	NA	NA	NA	NA
Zinc	6.4 E+1	6.9 E-4	0.0 E+0	NA	0.0007	NA	NA	NA	NA
Perchlorate	2.0 E+0	9.1 E-3	0.0 E+0	NA	0.009	NA	NA	NA	NA
Ammonia	6.5 E-1	NA	NA	2.1 E-6	0.000002	NA	NA	NA	NA
Cyanide (Total)	8.1 E-2	1.3 E-5	3.9 E-6	NA	0.00002	NA	NA	NA	NA
Fluoride	2.6 E+0	1.4 E-4	0.0 E+0	NA	0.0001	NA	NA	NA	NA
Nitrate (as N)	7.7 E+1	1.5 E-4	0.0 E+0	NA	0.0002	NA	NA	NA	NA
Nitrite (as N)	9.8 E-1	3.2 E-5	0.0 E+0	NA	0.00003	NA	NA	NA	NA
Organochlorine Pesticides									
2,4-DDD	6.7 E-3	NA	NA	NA	NA	7 E-11	2 E-13	2 E-12	8 E-11
2,4-DDE	1.3 E-1	NA	NA	NA	NA	2 E-9	6 E-12	6 E-11	2 E-9
4,4-DDD	3.0 E-4	NA	NA	NA	NA	3 E-12	9 E-15	9 E-14	3 E-12
4,4-DDE	9.6 E-2	NA	NA	NA	NA	2 E-9	4 E-12	4 E-11	2 E-9
4,4-DDT	3.0 E-2	1.9 E-4	1.7 E-5	5.5 E-6	0.0002	5 E-10	1 E-12	1 E-11	5 E-10
beta-BHC	2.2 E-3	NA	NA	NA	NA	2 E-10	9 E-13	5 E-12	2 E-10
Endrin aldehyde	2.1 E-3	1.4 E-5	4.1 E-6	6.5 E-7	0.00002	NA	NA	NA	NA
Aldehydes									
Acetaldehyde	1.4 E-1	NA	NA	7.1 E-4	0.001	5 E-11	0 E+0	2 E-10	3 E-10
Formaldehyde	5.0 E-1	8.1 E-6	2.4 E-6	6.3 E-6	0.00002	1 E-9	3 E-11	6 E-10	2 E-9

TABLE 7
CHEMICAL RISK SUMMARY FOR CONSTRUCTION WORKER RECEPTORS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Chemical	Soil Concentration (mg/kg)	Oral HQ	Dermal HQ	Outdoor Inhal HQ	Total HI	Oral ILCR	Dermal ILCR	Outdoor Inhal ILCR	Total ILCR
Volatile Organic Compounds									
Acetone	1.7 E-1	5.6 E-7	0.0 E+0	2.6 E-7	0.000001	NA	NA	NA	NA
Dichloromethane	3.9 E-3	2.1 E-7	0.0 E+0	3.0 E-7	0.000001	1 E-12	0 E+0	6 E-12	7 E-12
m,p-Xylene	1.3 E-3	2.1 E-8	0.0 E+0	1.2 E-6	0.000001	NA	NA	NA	NA
Methyl ethyl ketone	2.0 E-3	3.2 E-9	0.0 E+0	9.4 E-8	0.0000001	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons									
Benzo(a)anthracene	2.0 E-3	2.1 E-8	8.3 E-9	6.1 E-10	0.0000000	7 E-11	3 E-12	2 E-12	7 E-11
Benzo(a)pyrene	2.4 E-3	2.6 E-8	1.0 E-8	7.3 E-10	0.0000000	8 E-10	4 E-11	2 E-11	9 E-10
Benzo(b)fluoranthene	2.4 E-3	2.6 E-8	1.0 E-8	7.3 E-10	0.0000000	8 E-11	4 E-12	2 E-12	9 E-11
Benzo(k)fluoranthene	2.8 E-3	3.0 E-8	1.2 E-8	8.6 E-10	0.0000000	9 E-12	5 E-13	3 E-13	1 E-11
Chrysene	4.9 E-3	5.3 E-8	2.1 E-8	1.5 E-9	0.0000001	2 E-12	8 E-14	5 E-14	2 E-12
Dibenzo(a,h)anthracene	6.5 E-3	7.0 E-8	2.7 E-8	2.0 E-9	0.000000	2 E-9	1 E-10	6 E-11	2 E-9
Indeno(1,2,3-cd)pyrene	3.8 E-3	4.0 E-8	1.6 E-8	1.2 E-9	0.0000001	1 E-10	6 E-12	4 E-12	1 E-10
Semi-Volatile Organic Compounds									
Benzyl alcohol	2.7 E-2	1.7 E-4	0.0 E+0	8.3 E-9	0.0002	NA	NA	NA	NA
Hexachlorobenzene	1.4 E-1	5.5 E-4	1.6 E-4	1.6 E-5	0.00073	1 E-8	3 E-10	3 E-10	1 E-8
Total	--	0.2	0.01	0.7	0.9	6 E-7	6 E-9	1 E-6	2 E-6

Note: Risk calculation spreadsheets are provided in Attachment E (on CD).
HQ = hazard quotient
HI - hazard index
ILCR = incremental lifetime cancer risk

TABLE 8
CHEMICAL RISK SUMMARY FOR MAINTENANCE WORKER RECEPTORS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Chemical	Soil Concentration (mg/kg)	Oral HQ	Dermal HQ	Outdoor Inhal HQ	Total HI	Oral ILCR	Dermal ILCR	Outdoor Inhal ILCR	Total ILCR
Dioxins / Furans									
TCDD TEQ	2.2 E-4	5.8 E-2	3.9 E-2	NA	0.1	3 E-6	6 E-8	2 E-9	3 E-6
Inorganics									
Antimony	1.3 E+0	2.8 E-3	0.0 E+0	4.2 E-7	0.003	NA	NA	NA	NA
Arsenic	7.3 E+0	6.4 E-3	4.2 E-3	3.1 E-6	0.01	1 E-6	2 E-8	5 E-9	1 E-6
Barium	8.7 E+2	3.8 E-3	0.0 E+0	5.6 E-7	0.004	NA	NA	NA	NA
Cadmium	2.6 E-1	2.3 E-4	6.1 E-5	NA	0.0003	NA	NA	8 E-11	8 E-11
Chromium (Total)	5.7 E+1	3.4 E-5	0.0 E+0	NA	0.00003	NA	NA	NA	NA
Chromium (VI)	3.4 E+0	1.0 E-3	0.0 E+0	1.5 E-5	0.001	NA	NA	5 E-8	5 E-8
Manganese	1.1 E+3	2.0 E-2	0.0 E+0	9.8 E-3	0.03	NA	NA	NA	NA
Molybdenum	1.9 E+0	3.3 E-4	0.0 E+0	NA	0.0003	NA	NA	NA	NA
Silver	5.6 E-1	9.9 E-5	0.0 E+0	NA	0.0001	NA	NA	NA	NA
Thallium	9.6 E-1	1.3 E-2	0.0 E+0	NA	0.01	NA	NA	NA	NA
Tin	5.1 E+0	7.4 E-6	0.0 E+0	NA	0.000007	NA	NA	NA	NA
Titanium	1.3 E+3	2.9 E-4	0.0 E+0	2.0 E-5	0.0003	NA	NA	NA	NA
Tungsten	9.2 E+0	NA	NA	NA	NA	NA	NA	NA	NA
Uranium	1.8 E+0	8.1 E-3	0.0 E+0	2.8 E-6	0.008	NA	NA	NA	NA
Vanadium	1.0 E+2	1.8 E-2	0.0 E+0	NA	0.02	NA	NA	NA	NA
Zinc	6.4 E+1	1.9 E-4	0.0 E+0	NA	0.0002	NA	NA	NA	NA
Perchlorate	2.0 E+0	2.5 E-3	0.0 E+0	NA	0.002	NA	NA	NA	NA
Ammonia	6.5 E-1	NA	NA	3.0 E-9	0.00000000	NA	NA	NA	NA
Cyanide (Total)	8.1 E-2	3.6 E-6	2.3 E-6	NA	0.000006	NA	NA	NA	NA
Fluoride	2.6 E+0	3.9 E-5	0.0 E+0	NA	0.00004	NA	NA	NA	NA
Nitrate (as N)	7.7 E+1	4.2 E-5	0.0 E+0	NA	0.00004	NA	NA	NA	NA
Nitrite (as N)	9.8 E-1	8.6 E-6	0.0 E+0	NA	0.000009	NA	NA	NA	NA
Organochlorine Pesticides									
2,4-DDD	6.7 E-3	NA	NA	NA	NA	5 E-10	3 E-12	7 E-14	5 E-10
2,4-DDE	1.3 E-1	NA	NA	NA	NA	1 E-8	8 E-11	2 E-12	1 E-8
4,4-DDD	3.0 E-4	NA	NA	NA	NA	2 E-11	1 E-13	3 E-15	2 E-11
4,4-DDE	9.6 E-2	NA	NA	NA	NA	1 E-8	6 E-11	2 E-12	1 E-8
4,4-DDT	3.0 E-2	5.3 E-5	1.0 E-5	7.8 E-9	0.0001	3 E-9	2 E-11	5 E-13	3 E-9
beta-BHC	2.2 E-3	NA	NA	NA	NA	1 E-9	1 E-11	2 E-13	1 E-9
Endrin aldehyde	2.1 E-3	6.2 E-6	4.1 E-6	9.1 E-10	0.00001	NA	NA	NA	NA
Aldehydes									
Acetaldehyde	1.4 E-1	NA	NA	6.4 E-4	0.0006	3 E-10	0 E+0	5 E-9	5 E-9
Formaldehyde	5.0 E-1	2.9 E-6	1.9 E-6	5.7 E-6	0.00001	7 E-9	5 E-10	1 E-8	2 E-8

TABLE 8
CHEMICAL RISK SUMMARY FOR MAINTENANCE WORKER RECEPTORS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Chemical	Soil Concentration (mg/kg)	Oral HQ	Dermal HQ	Outdoor Inhal HQ	Total HI	Oral ILCR	Dermal ILCR	Outdoor Inhal ILCR	Total ILCR
Volatile Organic Compounds									
Acetone	1.7 E-1	1.7 E-7	0.0 E+0	2.3 E-6	0.000002	NA	NA	NA	NA
Dichloromethane	3.9 E-3	5.7 E-8	0.0 E+0	2.7 E-7	0.0000003	9 E-12	0 E+0	1 E-10	1 E-10
m,p-Xylene	1.3 E-3	5.7 E-9	0.0 E+0	1.1 E-6	0.000001	NA	NA	NA	NA
Methyl ethyl ketone	2.0 E-3	2.9 E-9	0.0 E+0	8.5 E-8	0.00000009	NA	NA	NA	NA
Polynuclear Aromatic Hydrocarbons									
Benzo(a)anthracene	2.0 E-3	5.8 E-8	5.0 E-8	8.6 E-12	0.0000001	5 E-10	5 E-11	7 E-14	5 E-10
Benzo(a)pyrene	2.4 E-3	7.0 E-8	6.0 E-8	1.0 E-11	0.0000001	5 E-9	6 E-10	8 E-13	6 E-9
Benzo(b)fluoranthene	2.4 E-3	7.0 E-8	6.0 E-8	1.0 E-11	0.0000001	5 E-10	6 E-11	8 E-14	6 E-10
Benzo(k)fluoranthene	2.8 E-3	8.2 E-8	7.0 E-8	1.2 E-11	0.0000002	6 E-11	7 E-12	9 E-15	7 E-11
Chrysene	4.9 E-3	1.4 E-7	1.2 E-7	2.1 E-11	0.0000003	1 E-11	1 E-12	2 E-15	1 E-11
Dibenzo(a,h)anthracene	6.5 E-3	1.9 E-7	1.6 E-7	2.8 E-11	0.0000004	1 E-8	2 E-9	2 E-12	2 E-8
Indeno(1,2,3-cd)pyrene	3.8 E-3	1.1 E-7	9.5 E-8	1.6 E-11	0.0000002	9 E-10	1 E-10	1 E-13	1 E-9
Semi-Volatile Organic Compounds									
Benzyl alcohol	2.7 E-2	7.9 E-8	0.0 E+0	1.2 E-11	0.00000008	NA	NA	NA	NA
Hexachlorobenzene	1.4 E-1	1.5 E-4	9.8 E-5	2.2 E-8	0.0002	7 E-8	5 E-9	1 E-11	7 E-8
Total	--	0.1	0.04	0.01	0.2	4 E-6	9 E-8	7 E-8	4 E-6

Note: Risk calculation spreadsheets are provided in Attachment E (on CD).
HQ = hazard quotient
HI - hazard index
ILCR = incremental lifetime cancer risk

TABLE 9
ASBESTOS RISK SUMMARY
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 1)

Scenario	Estimated Airborne Chrysotile Concentrations[1] (s/cm^3)	Estimated Airborne Amphibole Concentrations[1] (s/cm^3)	Adjusted Chrysotile URF[2] $(s/cm^3)^{-1}$	Adjusted Amphibole URF[2] $(s/cm^3)^{-1}$	Estimated Chrysotile[3] Risk	Estimated Amphibole[3] Risk
LONG FIBERS						
Construction Worker-Best Estimate (No Dust Mit./1 Yr Exp.)	3.1 E-4	0.0 E+0	1.9 E-4	2.1 E-2	6 E-8	0 E+0
Construction Worker-Upper Bound (No Dust Mit./1 Yr Exp.)	3.8 E-4	1.6 E-5	1.9 E-4	2.1 E-2	7 E-8	3 E-7
Future Maintenance Worker-Best Estimate	4.7 E-7	0.0 E+0	4.2 E-3	4.6 E-1	2 E-9	0 E+0
Future Maintenance Worker-Upper Bound	5.9 E-7	2.5 E-8	4.2 E-3	4.6 E-1	2 E-9	1 E-8

Note: Risk calculation spreadsheets are provided in Attachment E (on CD).

[1] Calculated based on estimated dust estimates and asbestos fiber concentrations.

[2] Calculated using equation information from Table 8-2 of 2003 Methodology (USEPA 2003b).

[3] Estimated airborne concentrations × URF.

Best Estimate - Based on the pooled analytical sensitivity multiplied by the number of asbestos fibers found.

Upper Bound - Based on the 95% UCL of the Poisson distribution.

TABLE 10
DATA ADEQUACY EVALUATION
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Table 10a: Sample Size Results for Chrysotile Asbestos (8 long fibers = 1 x 10-6)

Number of samples = 52		s = 1.91		
Threshold = 8 long fibers		a = 5%	a = 10%	a = 15%
MDD = 10% (0.8 long fibers)	b = 15%	49	36	29
	b = 20%	42	31	24
	b = 25%	37	26	20
MDD = 20% (1.6 long fibers)	b = 15%	13	10	8
	b = 20%	12	8	6
	b = 25%	10	7	5
MDD = 30% (2.4 long fibers)	b = 15%	7	5	4
	b = 20%	6	4	3
	b = 25%	6	4	3

Table 10b: Sample Size Results for 2,3,7,8-TCDD with MSSL = 17.7 pg/g

Number of samples = 60		s = 7.2		
Threshold = 17.7 pg/g		a = 5%	a = 10%	a = 15%
MDD = 10% (1.77 pg/g)	b = 15%	140	104	83
	b = 20%	120	88	68
	b = 25%	105	74	57
MDD = 20% (3.54 pg/g)	b = 15%	36	27	21
	b = 20%	31	23	18
	b = 25%	27	19	15
MDD = 30% (5.31 pg/g)	b = 15%	17	12	10
	b = 20%	15	11	8
	b = 25%	13	9	7

Table 10c: Sample Size Results for Hexachlorobenzene with MSSL = 1.2 mg/kg

Number of samples = 59		s = 0.15		
Threshold = 1.2 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (0.12 mg/kg)	b = 15%	15	11	8
	b = 20%	13	9	7
	b = 25%	11	8	6
MDD = 20% (0.24 mg/kg)	b = 15%	5	3	3
	b = 20%	4	3	2
	b = 25%	4	3	2
MDD = 30% (0.36 mg/kg)	b = 15%	3	2	1
	b = 20%	3	2	1
	b = 25%	3	2	1

Table 10d: Sample Size Results for Manganese with MSSL = 35,170 mg/kg

Number of samples = 59		s = 717.8		
Threshold = 1,090 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (3517 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 20% (7034 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 30% (10551 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1

TABLE 10
DATA ADEQUACY EVALUATION
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Table 10e: Sample Size Results for Vanadium with MSSL = 5,678 mg/kg

Number of samples = 59		s = 77.9		
Threshold = 59.1 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (568 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 20% (1136 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 30% (1703 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1

Table 10f: Sample Size Results for Chromium VI with MSSL = 71.2 mg/kg

Number of samples = 59		s = 3.15		
Threshold = 71.2 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (7.1 mg/kg)	b = 15%	3	2	2
	b = 20%	3	2	1
	b = 25%	3	2	1
MDD = 20% (14.2 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 30% (21.4 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1

Table 10g: Sample Size Results for beta-BHC with MSSL = 1.4 mg/kg

Number of samples = 59		s = 0.0023		
Threshold = 1.4 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (0.14 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 20% (0.28 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1
MDD = 30% (0.42 mg/kg)	b = 15%	2	1	1
	b = 20%	2	1	1
	b = 25%	2	1	1

Table 10h: Sample Size Results for Arsenic with Background = 7.2 mg/kg

Number of samples = 60		s = 3.93		
Threshold = 7.2 mg/kg		a = 5%	a = 10%	a = 15%
MDD = 10% (0.72 mg/kg)	b = 15%	250	187	149
	b = 20%	215	157	123
	b = 25%	187	133	102
MDD = 20% (1.4 mg/kg)	b = 15%	64	47	38
	b = 20%	55	40	31
	b = 25%	48	34	26
MDD = 30% (2.2 mg/kg)	b = 15%	29	22	17
	b = 20%	25	18	14
	b = 25%	22	16	12

ATTACHMENT A

2008 SEWER ALIGNMENT EXCAVATION INVESTIGATION
DATA TABLES (DATABASE ON CD)

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (Total)	Chromium (VI)
SAE-01	0	N	04/16/08	7640	0.13 J-	4.5	345 J+	0.46	< 6.6 U	0.1 J	20800	16.6	< 1 U
SAE-02	0	N	04/16/08	9100	0.18 J-	4.5	336 J+	0.5	< 6.6 U	0.13	16900	15.8	< 1 U
SAE-03	0	N	04/16/08	6590	< 0.126 UJ	3.4	338 J+	0.42	< 6.6 U	0.078 J	16300	16	< 1 U
SAE-04	0	N	04/16/08	7100	0.16 J-	4.1	420 J+	0.44	< 6.6 U	0.093 J	17100	16.1	< 1 U
SAE-05	0	N	04/16/08	5740	0.35 J-	3.4	433 J+	0.31	< 6.6 U	0.07 J	4700	97.2	1.4
SAE-06	0	N	04/16/08	7710	0.91 J-	9	650 J+	0.82	< 6.6 U	0.14	5500	231	7.8
SAE-07	0	N	04/16/08	5540	4.9 J-	34.5	2180 J+	0.71	< 6.6 U	0.53	9240	169	6.2
SAE-07	10	N	04/21/08	6820	0.15 J-	4.9	537	0.58	< 6.6 U	0.18	24500	17.7 J-	0.46 J
SAE-07	55[a]	N	04/21/08	17200	0.24 J-	20.6	305	0.84	23 J	0.12 J	10400	33.4 J-	< 1.4 U
SAE-07R	0	N	08/12/08	--	--	7.1	--	--	--	--	--	--	--
SAE-08	0	N	04/16/08	8070	< 0.126 UJ	2.2 J	310 J+	0.28	< 6.6 U	0.068 J	11700	6.6 J	< 1 U
SAE-08	0	FD	04/16/08	6020	0.27 J-	5 J	485 J+	0.42	< 6.6 U	0.097 J	11900	16.9 J	< 1 U
SAE-09	0	N	04/15/08	6060 J	2.7 J-	28.7	1030	0.52	18.9 J	0.23	52000 J	43.8	5.6
SAE-09R	0	N	08/12/08	--	--	12.8	--	--	--	--	--	--	--
SAE-10	0	N	04/15/08	7060 J	1.7 J-	17.7	1020	0.63	10.1 J	0.27	43200 J	45.4	3.3
SAE-10	10	N	04/21/08	7120	< 0.126 UJ	3.3	444	0.44	< 6.6 U	0.15	20700	6.8 J-	0.46 J
SAE-10	60[a]	N	04/21/08	16500	< 0.126 UJ	18.5	229	0.79	30.8	0.17	21200	35.2 J-	< 2 U
SAE-11	0	N	04/15/08	9610 J	0.21 J-	5.6	435	0.57	< 6.6 U	0.095 J	19100 J	13.1	1.2
SAE-12	0	N	04/15/08	7070 J	0.24 J-	8.4	360	0.5	< 6.6 U	0.11	13800 J	22.4	2.6
SAE-13	0	N	04/15/08	9980 J	0.2 J-	4.8	480	0.89	< 6.6 U	0.1	7310 J	14.2	0.77 J
SAE-14	0	N	04/15/08	4690 J	9.5 J-	60.2	4550	1.3	6.9 J	1.1	33000 J	308	20
SAE-14R	0	N	08/12/08	--	--	25.4	--	--	--	--	--	--	--
SAE-14R-2	0	N	10/08/08	--	--	20.9	--	--	--	--	--	--	--
SAE-15	0	N	04/15/08	5140 J	1.3 J-	10.2	757	0.57	< 3.3 U	0.22	29900 J	52	9
SAE-15	10	N	04/22/08	8040	< 0.126 UJ	3.1 J+	498 J	0.42	< 6.6 U	0.095 J+	18800	10.3 J+	< 1.1 U
SAE-15	10	FD	04/22/08	12500	0.18 J-	4 J+	1100 J	0.5	< 6.6 U	0.094 J+	18600	9.8 J+	< 1.1 U
SAE-15	55[a]	N	04/22/08	11500	0.17 J-	5.9 J+	1560 J	0.55	< 6.6 U	0.076 J+	22400	11.9 J+	< 1.4 U
SAE-15R	0	N	08/12/08	--	--	32.5	--	--	--	--	--	--	--
SAE-15R-2	0	N	10/09/08	--	--	3.7	--	--	--	--	--	--	--
SAE-16	0	N	04/15/08	7150 J	1.8 J-	12.6	989	0.81	< 6.6 U	0.33	21100 J	61	4
SAE-16R	0	N	08/12/08	--	--	29.7	--	--	--	--	--	--	--
SAE-16R-2	0	N	10/09/08	--	--	13.1	--	--	--	--	--	--	--
SAE-16R-2	0	FD	10/09/08	--	--	14.4	--	--	--	--	--	--	--
SAE-17	0	N	04/15/08	6650 J	4.8 J-	33.5	2540	1.3	< 6.6 U	0.58	20000 J	148	11
SAE-17R	0	N	08/13/08	--	--	23.4	--	--	--	--	--	--	--
SAE-17R-2	0	N	10/09/08	--	--	2.6	--	--	--	--	--	--	--
SAE-17R-2	0	FD	08/13/08	--	--	23.3	--	--	--	--	--	--	--
SAE-18	0	N	04/15/08	7960 J	0.15 J-	3.4	243	0.53	< 6.6 U	0.11	33700 J	11	< 1 U
SAE-19	0	N	04/15/08	4800 J	< 0.126 UJ	3.3	215	0.45	< 6.6 U	0.074 J	33400 J	4.6	< 1 U

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (Total)	Chromium (VI)
SAE-20	0	N	04/15/08	7020 J	0.15 J-	4.1	237	0.43	< 6.6 U	0.082 J	34100 J	9.5	0.72 J
SAE-21	0	N	04/15/08	9740 J	0.31 J-	5.4	481	0.53	< 6.6 U	0.11	29800 J	18.1	1.2
SAE-22	0	N	04/15/08	6990 J	0.25 J-	6	329	0.48	< 6.6 U	0.096 J	28300 J	31.5	1.5
SAE-22	10	N	04/22/08	10900	0.21 J-	5.7 J+	674 J	0.62	< 6.6 U	0.14 J+	43800 J	15.4 J	< 1.1 U
SAE-22	10	FD	04/22/08	9760	0.16 J-	3.8 J+	371 J	0.55	< 6.6 U	0.1 J+	16000 J	8 J	< 1.1 U
SAE-22	50[a]	N	04/23/08	6710 J	< 0.126 UJ	6.5	148 J-	0.47	< 6.6 U	0.08 J	17000	12.3 J-	< 1.1 U
SAE-23	0	N	04/15/08	7420 J	0.37 J-	7.3	401	0.49	< 6.6 U	0.1 J	20400 J	32.5	2.6
SAE-24	0	N	04/15/08	7850 J	0.2 J-	4.5	343	0.5	< 6.6 U	0.088 J	15400 J	14.3	< 1.1 U
SAE-25	0	N	04/15/08	8290 J	0.2 J-	4.4	332	0.53	< 6.6 U	0.11	15300 J	27.5	1.2
SAE-26	0	N	04/15/08	6930 J	0.18 J-	3.3	268	0.42	< 6.6 U	0.078 J	16100 J	20.6	0.55 J
SAE-27	0	N	04/16/08	8120	< 0.126 UJ	4.6	314 J+	0.45	< 6.6 U	0.11	22700	16.2	< 1.1 U
SAE-28	0	N	04/16/08	9360	< 0.126 UJ	6.9	404 J+	0.54	< 6.6 U	0.072 J	17000	23.6	1.5
SAE-29	0	N	04/16/08	11000	< 0.126 UJ	4	364 J+	0.58	< 6.6 U	0.098 J	24100	13.6	0.56 J
SAE-30	0	N	04/16/08	8030	< 0.126 UJ	2.1	296 J+	0.37	< 6.6 U	0.062 J	16300	10.3	1.8
SAE-31	0	N	04/16/08	7930	< 0.126 UJ	3.6	261 J+	0.44	< 6.6 U	0.063 J	16000	14.5	< 1 U
SAE-32	0	N	04/16/08	10000	< 0.126 UJ	12.3	307 J+	0.59	< 6.6 U	0.13	11400	15.6	< 1.2 U
SAE-33	0	N	04/16/08	7410	< 0.126 UJ	2.9	238 J+	0.44	< 6.6 U	0.077 J	13700	34.1	0.57 J
SAE-34	0	N	04/16/08	5140	< 0.126 UJ	4.7	211 J+	0.34	< 6.6 U	0.057 J	9600	10.4	1.7
SAE-34	10	N	04/23/08	6120 J	< 0.126 UJ	4	180 J-	0.41	< 6.6 U	0.07 J	36100	9.7 J-	< 1.1 U
SAE-34	35[a]	N	04/23/08	8090 J	< 0.126 UJ	8.4	148 J-	0.42 J	30.2	0.27	45400	< 6.37 UJ	< 1.5 U
SAE-35	0	N	04/16/08	8080	< 0.126 UJ	2.2	253 J+	0.43	< 6.6 U	0.082 J	12400	9.5	< 1 U
SAE-36	0	N	04/16/08	10700	< 0.126 UJ	1.7 J	294 J+	0.49	< 6.6 U	0.083 J	16300	8	< 1 U
SAE-37	0	N	04/16/08	9710 J	< 0.126 UJ	3.3	334 J-	0.55	< 6.6 U	0.15 J+	55700	5.8 J+	< 1.2 U
SAE-38	0	N	04/16/08	10200 J	0.18 J-	3.7	367 J-	0.53	< 6.6 U	0.17 J+	16100	9.9 J+	< 1 U
SAE-38	10	N	04/23/08	7790 J	< 0.126 UJ	7.9	154 J-	0.46	7.8 J	0.086 J	33300	11.4 J-	< 1 U
SAE-38	10	FD	04/23/08	6120 J	< 0.126 UJ	7.1	242 J-	0.45	< 6.6 U	0.084 J	27300	10.7 J-	< 1 U
SAE-38	35[a]	N	04/23/08	10500 J	< 0.126 UJ	22.6	24.6 J-	0.46 J	39.5	0.083 J	24500	< 6.37 UJ	< 1.4 U
SAE-39	0	N	04/16/08	8680 J	0.23 J-	15.7	419 J-	0.56	< 6.6 U	0.21 J+	20400	12.9 J+	< 1.2 U
SAE-40	0	N	04/16/08	11800 J	0.21 J-	8.9	348 J-	0.78	< 6.6 U	0.22 J+	5730	13 J+	< 1.1 U
SAE-41	0	N	04/16/08	11900 J	0.22 J-	7.8	363 J-	0.65	< 6.6 U	0.56 J+	21700	16 J+	< 1.2 U
SAE-41	10	N	04/23/08	7660 J	< 0.126 UJ	5.8	455 J-	0.5	< 6.6 U	0.063 J	15100	15.5 J-	< 1.1 U
SAE-41	20[a]	N	04/23/08	6360 J	< 0.126 UJ	6.4	214 J-	0.38	7.1 J	0.076 J	20200	10.1 J-	< 1.2 U
SAE-42	0	N	04/16/08	11600 J	0.31 J-	48.1	1570 J-	0.68	< 6.6 U	0.52 J+	21100	44.2 J+	4
SAE-42R	0	N	08/14/08	--	--	11.4 J+	--	--	--	--	--	--	--
SAE-42R-2	0	N	10/08/08	--	--	5.8	--	--	--	--	--	--	--
SAE-43	0	N	04/16/08	10700 J	0.15 J-	3.2	416 J-	0.57	< 6.6 U	0.11 J+	18400	9.2 J+	< 1.2 U
SAE-43	10	N	04/23/08	6690 J	< 0.126 UJ	4.3	284 J-	0.47	< 6.6 U	0.067 J	26000	10.3 J-	< 1.1 U
SAE-43	17[a]	N	04/23/08	6030 J	< 0.126 UJ	7.5	368 J-	0.39	< 6.6 U	0.069 J	21700	11.6 J-	< 1.1 U
SAE-44	0	N	04/16/08	10300 J	0.48 J-	5	503 J-	0.63	< 6.6 U	0.17 J+	26100	13.2 J+	0.51 J

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (Total)	Chromium (VI)
SAE-44	0	FD	04/16/08	9650 J	0.47 J-	4.6	421 J-	0.61	< 6.6 U	0.14 J+	21500	12.9 J+	< 1.2 U
SAE-45	0	N	04/16/08	10500 J	0.83 J-	6.6	967 J-	0.67	< 6.6 U	0.8 J+	23600	16.9 J+	0.53 J
SAE-46	0	N	04/16/08	8360 J	< 0.126 UJ	4	175 J-	0.47	8.4 J	0.13 J+	37000	9.4 J+	< 1.2 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Cobalt	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel
SAE-01	0	N	04/16/08	7.5	15.3	13600	20.1	< 7.314 U	8230	415	< 0.00668 U	0.73 J	15.1
SAE-02	0	N	04/16/08	7.9	18.2	13900	30.7	< 3.657 U	9570	518	< 0.00668 U	0.76 J	16.2
SAE-03	0	N	04/16/08	7.5	13.4	11800	24	< 3.657 U	6960	455	< 0.00668 U	0.45 J	13.9
SAE-04	0	N	04/16/08	7.2	14.6	12700	23.2	< 3.657 U	7310	420	< 0.00668 U	0.61 J	13.7
SAE-05	0	N	04/16/08	5.8	20.5	13200	77.5	< 3.657 U	5360	324	< 0.00668 U	0.8 J	13.4
SAE-06	0	N	04/16/08	7.9	51.9	11100	76.1	< 3.657 U	5460	549	< 0.00668 U	1.6	14.9
SAE-07	0	N	04/16/08	9	41.4	12300	306	< 3.657 U	6100	1800	0.0761	6.2	16.9
SAE-07	10	N	04/21/08	10.7	16.9	10700 J	16.6	< 7.314 U	6400 J	766	< 0.00668 U	< 0.188 U	32.9
SAE-07	55[a]	N	04/21/08	8.8	21.1	19900 J	12.3	102	32700 J	331	< 0.00668 U	< 0.188 U	21.5
SAE-07R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-08	0	N	04/16/08	5.9	9 J	7770	10 J	< 3.657 U	5600	383	< 0.00668 U	0.22 J	9.5
SAE-08	0	FD	04/16/08	7	16.4 J	10800	26 J	< 3.657 U	5640	434	< 0.00668 U	0.61 J	12.9
SAE-09	0	N	04/15/08	8.3	18.7 J+	9970 J	120 J+	< 14.628 U	10600 J	824	0.0471	2.6	14.9
SAE-09R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-10	0	N	04/15/08	8.9	20.3 J+	10900 J	86.4 J+	< 14.628 U	9200 J	1070	0.0244 J	2.3	16.8
SAE-10	10	N	04/21/08	5.3	11.8	11000 J	11.3	< 3.657 U	5830 J	384	0.0167 J	< 0.188 U	10
SAE-10	60[a]	N	04/21/08	8.5	18.5	17700 J	10.3	161	46500 J	344	< 0.00668 U	< 0.188 U	20.1
SAE-11	0	N	04/15/08	7.8	15.3 J+	15700 J	24.1 J+	< 3.657 U	8250 J	460	0.015 J	< 0.188 U	13.6
SAE-12	0	N	04/15/08	7.5	17.4 J+	14300 J	57.3 J+	< 3.657 U	7230 J	501	0.0151 J	1.6	17
SAE-13	0	N	04/15/08	9.1	18.7 J+	12200 J	45.8 J+	< 3.657 U	6750 J	962	0.0785	< 0.188 U	13
SAE-14	0	N	04/15/08	13.3	63.8 J+	9530 J	440 J+	< 14.628 U	5850 J	4830	0.244	8.9	23.2
SAE-14R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-14R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--	--
SAE-15	0	N	04/15/08	7.2	19.8 J+	9870 J	67.8 J+	< 3.657 U	5230 J	1040	0.0989	1.6	13
SAE-15	10	N	04/22/08	5.6	11.1 J+	10900	9.3 J	14.1 J	6360	267 J	< 0.00668 U	0.38 J+	11.6 J+
SAE-15	10	FD	04/22/08	6.8	16.3 J+	14700	17.7 J	8 J	7120	535 J	< 0.00668 U	0.7 J+	11.2 J+
SAE-15	55[a]	N	04/22/08	5.9	12.7 J+	12600	10.2 J+	14.1 J	8150	318 J	< 0.00668 U	0.75 J+	13.3 J+
SAE-15R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-15R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-16	0	N	04/15/08	9.7	25.5 J+	13100 J	77.2 J+	< 14.628 U	8150 J	1870	0.0329 J	2.5	17
SAE-16R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	FD	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-17	0	N	04/15/08	12.7	41.6 J+	14000 J	215 J+	< 14.628 U	7610 J	2590	0.0682	5.5	22.8
SAE-17R	0	N	08/13/08	--	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	FD	08/13/08	--	--	--	--	--	--	--	--	--	--
SAE-18	0	N	04/15/08	7.2	14.4 J+	14300 J	9.1 J+	< 14.628 U	8050 J	430	< 0.00668 U	< 0.188 U	14.9
SAE-19	0	N	04/15/08	4.7	9.2 J+	9680 J	27.1 J+	< 3.657 U	5140 J	376	< 0.00668 U	< 0.188 U	7.9

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Cobalt	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel
SAE-20	0	N	04/15/08	7.3	15.7 J+	11000 J	18.2 J+	< 3.657 U	9290 J	416	< 0.00668 U	< 0.188 U	14.5
SAE-21	0	N	04/15/08	7.4	17.5 J+	14500 J	27 J+	< 14.628 U	10200 J	510	< 0.00668 U	< 0.188 U	14.5
SAE-22	0	N	04/15/08	8.7	16.3 J+	12900 J	41.1 J+	< 3.657 U	7800 J	619	< 0.00668 U	1.1	20.6
SAE-22	10	N	04/22/08	9	19.5 J+	19300	25.3 J	25.4 J	11200	1470 J	< 0.00668 U	0.67 J+	16.5 J+
SAE-22	10	FD	04/22/08	8.3	15 J+	16100	13.2 J	12.8 J	9910	740 J	< 0.00668 U	0.6 J+	12.5 J+
SAE-22	50[a]	N	04/23/08	5.5	14.7	10300	9	10.9 J	6020 J-	301	< 0.00668 U	1.5	10.3
SAE-23	0	N	04/15/08	9.6	25.2 J+	12900 J	49 J+	< 3.657 U	8310 J	671	< 0.00668 U	1.4	20.9
SAE-24	0	N	04/15/08	7.2	13.8 J+	12900 J	22.1 J+	< 3.657 U	7110 J	483	< 0.00668 U	< 0.188 U	13.9
SAE-25	0	N	04/15/08	8.4	21 J+	15000 J	21.8 J+	< 3.657 U	8170 J	550	< 0.00668 U	< 0.188 U	18.5
SAE-26	0	N	04/15/08	7.4	14.1 J+	13200 J	16.1 J+	< 3.657 U	8320 J	438	0.013 J	< 0.188 U	15.3
SAE-27	0	N	04/16/08	8.2	15.2	12900	35.8	< 7.314 U	8280	475	< 0.00668 U	0.85 J	14.2
SAE-28	0	N	04/16/08	7.4	16.7	12900	43.7	< 3.657 U	8170	436	< 0.00668 U	1.1	17.6
SAE-29	0	N	04/16/08	8.6	16.5	14600	20.3	< 7.314 U	10200	492	< 0.00668 U	0.5 J	15.6
SAE-30	0	N	04/16/08	6.4	14.6	10700	8.7	< 3.657 U	7130	327	< 0.00668 U	1.1	13.4
SAE-31	0	N	04/16/08	7.5	16.3	13800	22	< 3.657 U	8220	483	< 0.00668 U	0.52 J	12.5
SAE-32	0	N	04/16/08	8.9	29.5	13300	20.6	< 3.657 U	9220	1070	< 0.00668 U	2.3	18.4
SAE-33	0	N	04/16/08	7.9	13.8	14000	11.9	< 3.657 U	7740	536	< 0.00668 U	0.42 J	19.8
SAE-34	0	N	04/16/08	6.9	15.8	10100	35.8	< 3.657 U	6530	355	< 0.00668 U	0.55 J	10.6
SAE-34	10	N	04/23/08	4.7	10.1	10000	6.2	22.8 J	8440 J-	212	0.0147 J	0.39 J	9.8
SAE-34	35[a]	N	04/23/08	3.7	8	8240	6.5	173	46000 J-	628	< 0.00668 U	2.5	10.9
SAE-35	0	N	04/16/08	9.7	14.5	13800	11.4	< 3.657 U	7770	549	< 0.00668 U	< 0.188 U	13.1
SAE-36	0	N	04/16/08	9.2	14.2	14400	9.4	< 3.657 U	8600	516	< 0.00668 U	< 0.188 U	13.7
SAE-37	0	N	04/16/08	7.6	13.5 J+	13500 J	10.8	< 14.628 U	8790 J-	490	< 0.00668 U	0.29 J	11.9
SAE-38	0	N	04/16/08	9	16.5 J+	16400 J	32	< 3.657 U	10100 J-	715	< 0.00668 U	0.58 J	14
SAE-38	10	N	04/23/08	6.5	12.2	11600	7.5	24.1 J	10700 J	274	< 0.00668 U	0.6 J	11.6
SAE-38	10	FD	04/23/08	5.1	11.8	9940	9.2	16.7 J	5800 J	274	< 0.00668 U	0.65 J	9.9
SAE-38	35[a]	N	04/23/08	6.4	12.9	11300	7.1	92.5 J	37400 J-	307	< 0.00668 U	1.7 J	13.5
SAE-39	0	N	04/16/08	8	17.5 J+	15100 J	214	< 3.657 U	9190 J-	812	< 0.00668 U	2	14
SAE-40	0	N	04/16/08	10	112 J+	17700 J	155	< 3.657 U	10500 J-	1090	< 0.00668 U	1.4	15.7
SAE-41	0	N	04/16/08	11	22.3 J+	19700 J	86.3	< 3.657 U	12000 J-	1350	< 0.00668 U	1.2	17.8
SAE-41	10	N	04/23/08	6.1	12	12400	9.8	18.4 J	7210 J-	289	< 0.00668 U	0.58 J	13.4
SAE-41	20[a]	N	04/23/08	6.1	11.3	9640	8	27.6	8810 J-	354	0.0143 J	0.82 J	10.6
SAE-42	0	N	04/16/08	10.7	58.6 J+	18400 J	679	< 3.657 U	11100 J-	2140	< 0.00668 U	5.4	18.8
SAE-42R	0	N	08/14/08	--	--	--	--	--	--	--	--	--	--
SAE-42R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--	--
SAE-43	0	N	04/16/08	8.6	15.4 J+	16400 J	14.4	< 3.657 U	9840 J-	553	< 0.00668 U	0.44 J	13.8
SAE-43	10	N	04/23/08	5.1	11.9	10200	6.6	15.2 J	7100 J-	264	< 0.00668 U	0.95 J	9.9
SAE-43	17[a]	N	04/23/08	4.6	11.4	10400	7.4	21.2 J	6320 J-	259	< 0.00668 U	0.93 J	10.4
SAE-44	0	N	04/16/08	8.7	18.3 J+	16800 J	45.1 J	< 14.628 U	10000 J-	656	< 0.00668 U	0.66 J	15.4

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Cobalt	Copper	Iron	Lead	Lithium	Magnesium	Manganese	Mercury	Molybdenum	Nickel
SAE-44	0	FD	04/16/08	8.7	17.7 J+	17400 J	84.1 J	< 3.657 U	9610 J-	580	< 0.00668 U	0.66 J	14.8
SAE-45	0	N	04/16/08	9.1	22.7 J+	18100 J	70.1	< 3.657 U	10800 J-	751	< 0.00668 U	0.97 J	16.4
SAE-46	0	N	04/16/08	7.1	16.8 J+	14400 J	10.2	< 14.628 U	11300 J-	468	< 0.00668 U	0.78 J	15.5

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Niobium	Palladium	Phosphorus (as P)	Platinum	Potassium	Selenium	Silicon	Silver	Sodium	Strontium
SAE-01	0	N	04/16/08	4.4 J-	0.39	906	< 0.048 U	2050	< 0.32 U	149 J+	0.11 J+	191	161 J+
SAE-02	0	N	04/16/08	< 3 UJ	0.36	1160	< 0.048 U	1780	< 0.32 U	159 J+	0.12 J+	130	141 J+
SAE-03	0	N	04/16/08	< 3 UJ	0.36	1020	< 0.048 U	1320	< 0.32 U	133 J+	0.097 J+	188	147 J+
SAE-04	0	N	04/16/08	3.3 J-	0.42	985	< 0.048 U	1800	< 0.32 U	146 J+	0.12 J+	202	164 J+
SAE-05	0	N	04/16/08	< 3 UJ	0.27	797	< 0.048 U	1190	< 0.32 U	144 J+	0.17 J+	369	98.2 J+
SAE-06	0	N	04/16/08	13 J-	0.45	1340	< 0.048 U	1190	< 0.32 U	145 J+	0.51 J+	555	141 J+
SAE-07	0	N	04/16/08	21.9 J-	0.75	975	0.1 J	1200	< 0.32 U	130 J+	2 J+	496	178 J+
SAE-07	10	N	04/21/08	< 3 UJ	0.34	1300 J	< 0.048 U	1380	< 0.32 U	805	0.3 J+	479	157 J
SAE-07	55[a]	N	04/21/08	< 3 UJ	0.5	1150 J	< 0.048 U	6330	< 0.32 U	1540	0.15 J+	867	192 J
SAE-07R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-08	0	N	04/16/08	< 3 UJ	0.43	1340	< 0.048 U	849	< 0.32 U	254 J	0.05 J+	1280 J	176 J+
SAE-08	0	FD	04/16/08	4.6 J-	0.39	943	< 0.048 U	1220	< 0.32 U	119 J	0.18 J+	626 J	164 J+
SAE-09	0	N	04/15/08	18.8 J-	1.2	794 J	0.094 J	2770 J	< 0.32 U	397	0.74 J+	1790	497 J
SAE-09R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-10	0	N	04/15/08	14.6 J-	1	1020 J	0.051 J	1910 J	< 0.32 U	449	0.58 J+	956	417 J
SAE-10	10	N	04/21/08	< 3 UJ	0.36	1020 J	< 0.048 U	1690	< 0.32 U	636	0.081 J+	792	168 J
SAE-10	60[a]	N	04/21/08	< 3 UJ	0.36	949 J	< 0.048 U	5930	< 0.32 U	1020	0.17 J+	835	148 J
SAE-11	0	N	04/15/08	< 3 UJ	0.75	1090 J	< 0.048 U	1970 J	< 0.32 U	473	0.1 J+	1060	285 J
SAE-12	0	N	04/15/08	< 3 UJ	0.37	1030 J	< 0.048 U	1180 J	< 0.32 U	447	0.1 J+	508	142 J
SAE-13	0	N	04/15/08	< 3 UJ	0.38	917 J	< 0.048 U	1570 J	< 0.32 U	487	0.13 J+	546	149 J
SAE-14	0	N	04/15/08	68 J-	1.2	640 J	0.17 J	1060 J	< 2 U	1100	3.9 J+	475	314 J
SAE-14R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-14R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--	--
SAE-15	0	N	04/15/08	15.9 J-	0.51	1030 J	0.053 J	1030 J	< 0.16 U	654	0.54 J+	313	213 J
SAE-15	10	N	04/22/08	< 3 UJ	0.49 J	881 J+	< 0.048 U	2080 J+	< 0.32 U	681	0.057 J+	812	255 J
SAE-15	10	FD	04/22/08	< 3 UJ	1.1 J	1420 J+	< 0.048 U	2330 J+	< 0.32 U	966	0.081 J+	1260	557 J
SAE-15	55[a]	N	04/22/08	< 3 UJ	1	1180 J+	< 0.048 U	3370 J+	< 0.32 U	1030	0.069 J+	2880	529
SAE-15R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-15R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-16	0	N	04/15/08	18.4 J-	0.44	1540 J	0.067 J	1410 J	< 0.32 U	755	0.69 J+	553	188 J
SAE-16R	0	N	08/12/08	--	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	FD	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-17	0	N	04/15/08	30.6 J-	0.91	1140 J	0.15 J	1340 J	< 0.32 U	893	1.9 J+	1040	311 J
SAE-17R	0	N	08/13/08	--	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	FD	08/13/08	--	--	--	--	--	--	--	--	--	--
SAE-18	0	N	04/15/08	< 3 UJ	0.48	1190 J	< 0.048 U	1680 J	< 0.32 U	749	0.077 J+	396	226 J
SAE-19	0	N	04/15/08	< 3 UJ	0.39	1030 J	< 0.048 U	779 J	< 0.32 U	400	0.051 J+	291	166 J

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Niobium	Palladium	Phosphorus (as P)	Platinum	Potassium	Selenium	Silicon	Silver	Sodium	Strontium
SAE-20	0	N	04/15/08	< 3 UJ	0.51	1080 J	< 0.048 U	1030 J	< 0.32 U	266	0.086 J+	516	192 J
SAE-21	0	N	04/15/08	3.8 J-	0.59	903 J	< 0.048 U	1520 J	< 0.32 U	707	0.15 J+	816	231 J
SAE-22	0	N	04/15/08	3.5 J-	0.31	1310 J	< 0.048 U	1130 J	< 0.32 U	449	0.12 J+	532	122 J
SAE-22	10	N	04/22/08	< 3 UJ	0.54	1170 J+	< 0.048 U	1630 J+	< 0.32 U	975	0.095 J+	1190	271
SAE-22	10	FD	04/22/08	< 3 UJ	0.48	1750 J+	< 0.048 U	1020 J+	< 0.32 U	1210	0.071 J+	998	237
SAE-22	50[a]	N	04/23/08	< 3 UJ	0.53	769	< 0.048 U	2250 J	< 0.32 U	182 J+	0.068 J	782 J-	278
SAE-23	0	N	04/15/08	4.5 J-	0.32	1270 J	< 0.048 U	1150 J	< 0.32 U	667	0.15 J+	419	110 J
SAE-24	0	N	04/15/08	< 3 UJ	0.37	1290 J	< 0.048 U	1300 J	< 0.32 U	380	0.098 J+	823	147 J
SAE-25	0	N	04/15/08	< 3 UJ	0.44	1190 J	< 0.048 U	1360 J	< 0.32 U	581	0.13 J+	662	182 J
SAE-26	0	N	04/15/08	< 3 UJ	0.28	1010 J	< 0.048 U	1160 J	< 0.32 U	655	0.09 J+	568	122 J
SAE-27	0	N	04/16/08	< 3 UJ	0.48	1320	< 0.048 U	1320	< 0.32 U	146 J+	0.089 J+	740	186 J+
SAE-28	0	N	04/16/08	< 3 UJ	0.46	1140	< 0.048 U	1410	< 0.32 U	143 J+	0.093 J+	837	185 J+
SAE-29	0	N	04/16/08	< 3 UJ	0.55	1220	< 0.048 U	1920	< 0.32 U	140 J+	0.1 J+	895	220 J+
SAE-30	0	N	04/16/08	< 3 UJ	0.38	1290	< 0.048 U	1830	< 0.32 U	173 J+	0.055 J+	1020	158 J+
SAE-31	0	N	04/16/08	< 3 UJ	0.32	1110	< 0.048 U	1590	< 0.32 U	164 J+	0.076 J+	430	135 J+
SAE-32	0	N	04/16/08	< 3 UJ	0.41	1440	< 0.048 U	1960	< 0.32 U	145 J+	0.092 J+	639	158 J+
SAE-33	0	N	04/16/08	< 3 UJ	0.26	1450	< 0.048 U	1270	< 0.32 U	156 J+	0.092 J+	414	110 J+
SAE-34	0	N	04/16/08	< 3 UJ	0.21	1620	< 0.048 U	927	< 0.32 U	133 J+	0.063 J+	429	79.7 J+
SAE-34	10	N	04/23/08	< 3 UJ	0.49	523	< 0.048 U	1010 J	< 0.32 U	122 J+	0.071 J	857 J-	247
SAE-34	35[a]	N	04/23/08	< 15 UJ	3.6	435	< 0.24 U	3470 J	< 0.32 U	179 J+	0.2 J	704 J-	1670
SAE-35	0	N	04/16/08	< 3 UJ	0.42	1410	< 0.048 U	1550	< 0.32 U	150 J+	0.08 J+	279	177 J+
SAE-36	0	N	04/16/08	< 3 UJ	0.64	1480	< 0.048 U	1640	< 0.32 U	181 J+	0.098 J+	289	276 J+
SAE-37	0	N	04/16/08	< 3 UJ	0.68 J+	1600 J	< 0.048 U	1750 J	< 0.32 U	161 J+	0.085 J+	200	362 J
SAE-38	0	N	04/16/08	< 3 UJ	0.47 J+	1510 J	< 0.048 U	1890 J	< 0.32 U	185 J+	0.12 J+	260	220 J
SAE-38	10	N	04/23/08	< 3.75 UJ	0.64	966	< 0.06 U	1160 J	< 0.32 U	144 J+	0.097 J	702 J-	317
SAE-38	10	FD	04/23/08	< 3 UJ	0.57	772	< 0.048 U	1150 J	< 0.32 U	139 J+	0.067 J	576 J-	289
SAE-38	35[a]	N	04/23/08	< 15 UJ	< 0.191 U	520	< 0.24 U	4200 J	< 0.32 U	391 J+	0.19 J	675 J-	68.5
SAE-39	0	N	04/16/08	< 3 UJ	0.54 J+	1920 J	< 0.048 U	1610 J	< 0.32 U	158 J+	0.14 J+	204	224 J
SAE-40	0	N	04/16/08	< 3 UJ	0.73 J+	1300 J	< 0.048 U	3020 J	< 0.32 U	130 J+	0.11 J+	1580	312 J
SAE-41	0	N	04/16/08	< 3 UJ	0.73 J+	1550 J	< 0.048 U	2320 J	< 0.32 U	152 J+	0.16 J+	292	343 J
SAE-41	10	N	04/23/08	< 3.75 UJ	0.68	540	< 0.06 U	1190 J	< 0.32 U	180 J+	0.07 J	994 J-	358
SAE-41	20[a]	N	04/23/08	< 3 UJ	0.36	700	< 0.048 U	2080 J	< 0.32 U	149 J+	0.075 J	572 J-	187
SAE-42	0	N	04/16/08	< 3 UJ	1.3 J+	1200 J	0.15 J+	2340 J	< 0.32 U	151 J+	0.3 J+	318	472 J
SAE-42R	0	N	08/14/08	--	--	--	--	--	--	--	--	--	--
SAE-42R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--	--
SAE-43	0	N	04/16/08	< 3 UJ	0.62 J+	1500 J	< 0.048 U	2490 J	< 0.32 U	149 J+	0.1 J+	637	315 J
SAE-43	10	N	04/23/08	< 3 UJ	0.63	860	< 0.048 U	996 J	< 0.32 U	167 J+	0.071 J	568 J-	341
SAE-43	17[a]	N	04/23/08	< 3 UJ	1.3	684	< 0.048 U	1540 J	< 0.32 U	204 J+	0.075 J	781 J-	685
SAE-44	0	N	04/16/08	< 3 UJ	0.55 J+	1300 J	< 0.048 U	2160 J	< 0.32 U	150 J+	0.13 J+	222	258 J

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals									
				Niobium	Palladium	Phosphorus (as P)	Platinum	Potassium	Selenium	Silicon	Silver	Sodium	Strontium
SAE-44	0	FD	04/16/08	< 3 UJ	0.53 J+	1340 J	< 0.048 U	2100 J	< 0.32 U	144 J+	0.12 J+	212	244 J
SAE-45	0	N	04/16/08	< 3 UJ	0.52 J+	1350 J	< 0.048 U	1960 J	< 0.32 U	161 J+	0.17 J+	284	248 J
SAE-46	0	N	04/16/08	< 3 UJ	0.52 J+	1440 J	< 0.048 U	1520 J	< 0.32 U	153 J+	0.096 J+	1500	262 J

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals								
				Sulfur	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	Zirconium
SAE-01	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.92	461	1.1 J-	0.64	35.3	38.8	18.9 J
SAE-02	0	N	04/16/08	< 1053.5 U	0.37 J	0.96	457	1.3 J-	0.72	36.3	41.2	19.6 J
SAE-03	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.61	375	0.84 J-	0.72	33.5	35.2	13.9 J
SAE-04	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.91	508	1.2 J-	0.85	40.7	37.8	17.7 J
SAE-05	0	N	04/16/08	< 1053.5 U	< 0.3 U	3.2	1260	1.1 J-	0.68	147	35.8	31.3
SAE-06	0	N	04/16/08	< 1053.5 U	1.6	3.7	848	6.4 J-	2.8	108	63.1	42.3
SAE-07	0	N	04/16/08	2410 J+	3.2	14.4	2980	26.9 J-	4.4	285	83.4	107
SAE-07	10	N	04/21/08	< 1053.5 U	0.44	0.39 J	339 J+	< 0.5 U	1.2	36.3	81.9 J-	9.7
SAE-07	55[a]	N	04/21/08	< 1053.5 U	0.54 J	0.83	623 J+	< 0.5 U	2.1	42.7	60.1 J-	27.1
SAE-07R	0	N	08/12/08	--	--	--	--	--	--	--	--	--
SAE-08	0	N	04/16/08	1750 J+	< 0.3 U	< 0.3 UJ	278	< 0.5 UJ	0.49 J	18.6 J	27.4	8.6 J
SAE-08	0	FD	04/16/08	2470 J+	< 0.3 U	1.3 J	454	1.9 J	0.83 J	38.5 J	34.9	28.5
SAE-09	0	N	04/15/08	9470 J+	0.9	4.5	1300	11.4	3.8	169 J	68.2	125 J+
SAE-09R	0	N	08/12/08	--	--	--	--	--	--	--	--	--
SAE-10	0	N	04/15/08	3690 J+	1.2	4.8	1360	11	2.6	77.2 J	40.2	73.5 J+
SAE-10	10	N	04/21/08	< 1053.5 U	< 0.3 U	0.35 J	297 J+	< 0.5 U	0.82	24.9	34.7 J-	12.6
SAE-10	60[a]	N	04/21/08	4790 J+	< 0.3 U	0.92	560 J+	< 0.5 U	3.2	48.9	60.5 J-	29.8
SAE-11	0	N	04/15/08	1310 J+	< 0.3 U	0.79	603	1.8	0.79	49.8 J	50.1	18.8 J+
SAE-12	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.69	567	5	1.1	44.9 J	39.2	19.7 J+
SAE-13	0	N	04/15/08	< 1053.5 U	0.59	0.59	394	0.89 J	0.81	47.1 J	52.2	14.2 J+
SAE-14	0	N	04/15/08	2910 J+	6.3	37.7	6730	65.8	9.3	446 J	181	208 J+
SAE-14R	0	N	08/12/08	--	--	--	--	--	--	--	--	--
SAE-14R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--
SAE-15	0	N	04/15/08	< 1053.5 U	1.1	4.9	1300	11.5	1.8	238 J	93.2	70 J+
SAE-15	10	N	04/22/08	< 1053.5 U	< 0.3 U	0.34 J+	384 J+	< 0.5 U	0.81 J+	31.9 J+	34.2	9.7
SAE-15	10	FD	04/22/08	< 1053.5 U	< 0.3 U	0.44 J+	524 J+	< 0.5 U	1.1 J+	47.3 J+	36	13.2
SAE-15	55[a]	N	04/22/08	< 1053.5 U	< 0.3 U	0.43 J+	653 J+	< 0.5 U	1.1 J+	31.2 J+	32.1	11.4
SAE-15R	0	N	08/12/08	--	--	--	--	--	--	--	--	--
SAE-15R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--
SAE-16	0	N	04/15/08	1320 J+	1.2	6.1	2030	15.2	2	169 J	70.4	84.8 J+
SAE-16R	0	N	08/12/08	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--
SAE-16R-2	0	FD	10/09/08	--	--	--	--	--	--	--	--	--
SAE-17	0	N	04/15/08	2600 J+	3.2	17.9	3610	35.6	4.4	43.9 J	48.9	182 J+
SAE-17R	0	N	08/13/08	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	N	10/09/08	--	--	--	--	--	--	--	--	--
SAE-17R-2	0	FD	08/13/08	--	--	--	--	--	--	--	--	--
SAE-18	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.43	507	< 0.5 U	0.64	319 J	115	13.9 J+
SAE-19	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.37 J	319	0.76 J	0.66	44.9 J	42.4	9.8 J+

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals								
				Sulfur	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	Zirconium
SAE-20	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.44	424	1.1	0.94	38.7 J	37.5	15 J+
SAE-21	0	N	04/15/08	< 1053.5 U	0.46	1	833	3.2	1.1	54.4 J	37.2	29.3 J+
SAE-22	0	N	04/15/08	< 1053.5 U	< 0.3 U	1.2	783	4	1.2	90.5 J	52	24.1 J+
SAE-22	10	N	04/22/08	< 1053.5 U	< 0.3 U	0.54 J+	626 J+	< 0.5 U	1.8 J+	50.1 J+	44.9	15.5
SAE-22	10	FD	04/22/08	< 1053.5 U	< 0.3 U	0.42 J+	417 J+	< 0.5 U	1.3 J+	39.1 J+	47.1	11.8
SAE-22	50[a]	N	04/23/08	< 1053.5 U	< 0.3 U	0.44	321 J+	0.87 J	1.1	25.7	30.9	10.6
SAE-23	0	N	04/15/08	< 1053.5 U	< 0.3 U	1.3	694	5.1	1.2	103 J	47.4	30.7 J+
SAE-24	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.77	690	2.2	0.81	37.7 J	40	18.6 J+
SAE-25	0	N	04/15/08	< 1053.5 U	< 0.3 U	1	888	1.7	1.2	78.6 J	42.9	25.3 J+
SAE-26	0	N	04/15/08	< 1053.5 U	< 0.3 U	0.72	546	2.1	0.91	70.6 J	34.2	18.5 J+
SAE-27	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.44	456	2.2 J-	0.81	43.5	43	16.8 J
SAE-28	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.52	521	3.4 J-	1.2	56	39.4	17.5 J
SAE-29	0	N	04/16/08	1100 J+	< 0.3 U	0.4 J	538	0.83 J-	0.79	35.3	43.6	19.6 J
SAE-30	0	N	04/16/08	1180 J+	< 0.3 U	< 0.3 U	387	< 0.5 UJ	0.58	33.4	29.3	12.3 J
SAE-31	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.33 J	463	1 J	0.69	39.2	40.6	15.1 J
SAE-32	0	N	04/16/08	< 1053.5 U	0.36 J	< 0.3 U	477	11.8 J-	0.86	38.9	115	17.9 J
SAE-33	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.42	497	< 0.5 UJ	1.3	85.2	39	20 J
SAE-34	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.5	312	2.8 J-	0.41	29.6	34	11.7 J
SAE-34	10	N	04/23/08	< 1053.5 U	< 0.3 U	0.4 J	336 J+	0.59 J	1	24.4	23.3	12.9
SAE-34	35[a]	N	04/23/08	2740 J+	< 1.5 U	0.52	144 J+	0.69 J	6.6	14.3	27.6	16.4
SAE-35	0	N	04/16/08	< 1053.5 U	< 0.3 U	< 0.3 U	464	< 0.5 UJ	0.63	36	35.9	15.5 J
SAE-36	0	N	04/16/08	< 1053.5 U	< 0.3 U	< 0.3 U	518	< 0.5 UJ	0.68	33.2	39.9	19.9 J
SAE-37	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.45	401 J+	< 0.5 U	0.79	30.1	36.3 J+	13.1
SAE-38	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.59	599 J+	0.65 J	0.66	39	45.4 J+	18.7
SAE-38	10	N	04/23/08	2160 J	< 0.375 U	0.48	439 J+	< 0.5 U	2.4	35.6	28.6	17.3
SAE-38	10	FD	04/23/08	< 1053.5 U	< 0.3 U	0.38 J	321 J+	< 0.5 U	2.1	29	24.8	12.4
SAE-38	35[a]	N	04/23/08	1950 J+	< 1.5 U	0.61 J	226 J+	< 0.5 U	16.1	32.3	38.3	20.8
SAE-39	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.89	657 J+	0.96 J	0.77	41.2	45.8 J+	20.9
SAE-40	0	N	04/16/08	< 1053.5 U	0.76	0.52	611 J+	5.4	0.77	40.7	97.6 J+	17.7
SAE-41	0	N	04/16/08	< 1053.5 U	0.37 J	0.79	689 J+	5.3	0.88	49.1	72.9 J+	21
SAE-41	10	N	04/23/08	< 1053.5 U	< 0.375 U	0.49	439 J+	1.2	1.7	35.2	31.7	12.5
SAE-41	20[a]	N	04/23/08	< 1053.5 U	< 0.3 U	0.4 J	273 J+	0.7 J	1.9	25.7	25.7	12.8
SAE-42	0	N	04/16/08	< 1053.5 U	0.52	1.8	1310 J+	2.5	1.5	55.5	143 J+	44.7
SAE-42R	0	N	08/14/08	--	--	--	--	--	--	--	--	--
SAE-42R-2	0	N	10/08/08	--	--	--	--	--	--	--	--	--
SAE-43	0	N	04/16/08	< 1053.5 U	< 0.3 U	0.45	593 J+	< 0.5 U	0.76	38.4	41 J+	15.6
SAE-43	10	N	04/23/08	1930 J+	< 0.3 U	0.37 J	352 J+	< 0.5 U	1.2	27.2	27.6	13.7
SAE-43	17[a]	N	04/23/08	< 1053.5 U	< 0.3 U	0.38 J	304 J+	< 0.5 U	1.6	26.8	25.2	11.7
SAE-44	0	N	04/16/08	< 1053.5 U	< 0.3 U	1.3	609 J+	1.4	0.75	45.2	51.1 J+	19.3

TABLE A-1
SOILS METAL DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Metals								
				Sulfur	Thallium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zinc	Zirconium
SAE-44	0	FD	04/16/08	< 1053.5 U	< 0.3 U	1	538 J+	1.1	0.72	45	46.3 J+	17.9
SAE-45	0	N	04/16/08	< 1053.5 U	0.35 J	3.8	691 J+	2.8	0.92	58.9	62.3 J+	22.4
SAE-46	0	N	04/16/08	2100 J+	< 0.3 U	0.67	465 J+	< 0.5 U	1.1	35.3	43.2 J+	15.5

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-2
SOIL ORGANOCHLORINE PESTICIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 4)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Organochlorine Pesticides											
				2,4-DDD	2,4-DDE	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin
SAE-01	0	N	04/16/08	< 0.00011 U	0.0052	< 0.00016 U	0.0047	< 0.00043 U	< 0.000088 U	< 0.000097 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000084 U	< 0.000073 U
SAE-02	0	N	04/16/08	< 0.00011 U	0.011	< 0.00016 U	0.015	0.0038 J	< 0.000088 U	< 0.000097 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000084 U	< 0.000073 U
SAE-03	0	N	04/16/08	< 0.00011 U	0.0046 J+	< 0.00016 U	0.0042 J+	< 0.00043 U	< 0.000089 U	< 0.000097 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000084 U	< 0.000073 U
SAE-04	0	N	04/16/08	< 0.00012 U	0.01 J+	< 0.00016 U	0.011 J+	0.0028 J	< 0.00009 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-05	0	N	04/16/08	< 0.00012 U	0.036 J+	< 0.00016 U	0.021 J+	0.0036 J	< 0.00009 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-06	0	N	04/16/08	< 0.00011 U	0.019 J+	< 0.00016 U	0.023 J+	0.0058 J	< 0.000089 U	< 0.000097 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000084 U	< 0.000074 U
SAE-07	0	N	04/16/08	0.02 J	0.67	< 0.00016 U	0.47	0.16 J	0.0022 J	< 0.000099 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-07	10	N	04/21/08	< 0.00032 U	0.034 J+	< 0.000093 U	0.024 J+	0.0079 J	< 0.000099 U	< 0.0003 U	< 0.00022 U	< 0.00019 U	< 0.0024 U	< 0.00017 U	< 0.000095 U
SAE-07	55[a]	N	04/21/08	< 0.00043 U	< 0.00028 U	< 0.00013 U	< 0.00027 U	< 0.00029 U	< 0.00014 U	< 0.0004 U	< 0.0003 U	< 0.00026 U	< 0.0033 U	< 0.00024 U	< 0.00013 U
SAE-08	0	N	04/16/08	< 0.00012 U	0.0045 J	< 0.00016 U	0.0041 J	< 0.00044 UJ	< 0.00009 U	< 0.000099 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-08	0	FD	04/16/08	< 0.00012 U	0.018 J	< 0.00016 U	0.016 J	0.004 J	< 0.00009 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-09	0	N	04/15/08	0.012 J+	0.67	< 0.00016 U	0.35	0.14	< 0.00009 U	< 0.000098 U	< 0.0001 U	0.014 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-10	0	N	04/15/08	0.0081 J+	0.24	< 0.00017 U	0.15	0.06 J+	< 0.000092 U	< 0.0001 U	< 0.0001 U	0.0063 J+	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-10	10	N	04/21/08	< 0.00032 U	< 0.00021 U	< 0.000095 U	< 0.0002 U	< 0.00022 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000097 U
SAE-10	60[a]	N	04/21/08	< 0.00044 U	< 0.00029 U	< 0.00013 U	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00041 U	< 0.0003 U	< 0.00027 U	< 0.0034 U	< 0.00024 U	< 0.00013 U
SAE-11	0	N	04/15/08	< 0.00012 U	0.0028 J	< 0.00017 U	0.0035 J+	< 0.00045 U	< 0.000092 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-12	0	N	04/15/08	< 0.00012 U	0.0057 J+	< 0.00017 U	0.0061 J+	< 0.00044 U	< 0.00009 U	< 0.000099 U	< 0.0001 U	< 0.00036 U	< 0.0023 U	< 0.000086 U	< 0.000075 U
SAE-13	0	N	04/15/08	0.0028 J	0.013 J+	< 0.00016 U	0.013 J+	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	0.0037 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-14	0	N	04/15/08	0.048 J	0.7	< 0.00017 U	0.51	0.15	0.0058 J	0.0022 J	< 0.0001 U	< 0.00036 U	< 0.0023 U	< 0.000086 U	< 0.000075 U
SAE-15	0	N	04/15/08	0.01 J+	0.18	< 0.00017 U	0.12	0.042 J	< 0.000092 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000088 U	< 0.000076 U
SAE-15	10	N	04/22/08	< 0.00032 U	< 0.00021 U	< 0.000092 U	< 0.0002 U	< 0.00021 U	< 0.000099 U	< 0.00029 U	< 0.00022 U	< 0.00019 U	< 0.0024 U	< 0.00017 U	< 0.000095 U
SAE-15	10	FD	04/22/08	< 0.00032 U	< 0.00021 U	< 0.000095 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000097 U
SAE-15	55[a]	N	04/22/08	< 0.00032 U	< 0.00021 U	< 0.000093 U	< 0.0002 U	< 0.00021 U	< 0.000099 U	< 0.00029 U	< 0.00022 U	< 0.00019 U	< 0.0024 U	< 0.00017 U	< 0.000095 U
SAE-16	0	N	04/15/08	0.025 J+	0.45	< 0.00016 U	0.3	0.1	< 0.00009 U	0.0017 J	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000086 U	< 0.000075 U
SAE-17	0	N	04/15/08	0.02 J+	0.4	< 0.00016 U	0.29	0.097	< 0.00009 U	< 0.000099 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-18	0	N	04/15/08	< 0.00011 U	< 0.000091 U	< 0.00016 U	< 0.00026 U	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-19	0	N	04/15/08	< 0.00012 U	< 0.000094 U	< 0.00017 U	< 0.00026 U	< 0.00045 U	< 0.000092 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-20	0	N	04/15/08	< 0.00012 U	0.028 J+	< 0.00017 U	0.021 J+	0.019 J+	< 0.000092 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000088 U	< 0.000076 U
SAE-21	0	N	04/15/08	< 0.00012 U	0.039 J+	< 0.00017 U	0.026 J+	0.016 J	< 0.000092 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-22	0	N	04/15/08	< 0.00012 U	0.017 J+	< 0.00016 U	0.016 J+	0.009 J+	< 0.00009 U	< 0.000099 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-22	10	N	04/22/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-22	10	FD	04/22/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-22	50[a]	N	04/23/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-23	0	N	04/15/08	< 0.00012 U	0.074	< 0.00017 U	0.058	0.027 J+	< 0.000091 U	< 0.0001 U	< 0.0001 U	0.004 J+	< 0.0024 U	< 0.000086 U	< 0.000075 U
SAE-24	0	N	04/15/08	< 0.00012 U	0.017 J+	< 0.00016 U	0.015 J+	0.0099 J+	< 0.00009 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-25	0	N	04/15/08	< 0.00012 U	0.019 J+	< 0.00017 U	0.016 J+	0.0071 J+	< 0.000091 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-26	0	N	04/15/08	< 0.00012 U	0.0025 J+	< 0.00017 U	0.003 J+	< 0.00044 U	< 0.000091 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-27	0	N	04/16/08	< 0.00012 U	0.004 J+	< 0.00017 U	0.0044 J+	< 0.00044 U	< 0.000091 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000086 U	< 0.000075 U
SAE-28	0	N	04/16/08	< 0.00012 U	0.0057 J+	< 0.00017 U	0.0067 J+	< 0.00044 U	< 0.000091 U	< 0.000099 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000086 U	< 0.000075 U

TABLE A-2
SOIL ORGANOCHLORINE PESTICIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 4)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Organochlorine Pesticides											
				2,4-DDD	2,4-DDE	4,4-DDD	4,4-DDE	4,4-DDT	Aldrin	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin
SAE-29	0	N	04/16/08	< 0.00012 U	0.0018 J	< 0.00017 U	0.0022 J+	< 0.00045 U	< 0.000093 U	< 0.0001 U	< 0.00011 U	< 0.00037 U	< 0.0024 U	< 0.000088 U	< 0.000077 U
SAE-30	0	N	04/16/08	< 0.00012 U	< 0.000093 U	< 0.00017 U	0.0023 J+	< 0.00044 U	< 0.000091 U	< 0.0001 U	< 0.0001 U	< 0.00036 U	< 0.0024 U	< 0.000087 U	< 0.000076 U
SAE-31	0	N	04/16/08	< 0.00011 U	0.002 J	< 0.00016 U	0.0021 J	< 0.00043 U	< 0.000089 U	< 0.000097 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000084 U	< 0.000074 U
SAE-32	0	N	04/16/08	< 0.00012 U	< 0.000092 U	< 0.00016 U	< 0.00026 U	< 0.00044 U	< 0.00009 U	< 0.000099 U	< 0.0001 U	0.0021 J+	< 0.0023 U	< 0.000086 U	< 0.000075 U
SAE-33	0	N	04/16/08	< 0.00012 U	< 0.000091 U	< 0.00016 U	< 0.00026 U	< 0.00044 U	< 0.00009 U	< 0.000098 U	< 0.0001 U	0.0023 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-34	0	N	04/16/08	< 0.00011 U	0.0031 J+	< 0.00016 U	0.0041 J+	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	0.0021 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-34	10	N	04/23/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-34	35[a]	N	04/23/08	< 0.00037 U	< 0.00024 U	< 0.00011 U	< 0.00023 U	< 0.00024 U	< 0.00011 U	< 0.00034 U	< 0.00025 U	< 0.00022 U	< 0.0028 U	< 0.0002 U	< 0.00011 U
SAE-35	0	N	04/16/08	< 0.00012 U	< 0.000091 U	< 0.00016 U	< 0.00026 U	< 0.00044 U	< 0.00009 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-36	0	N	04/16/08	< 0.00011 U	< 0.000091 U	< 0.00016 U	< 0.00026 U	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-37	0	N	04/16/08	< 0.00012 U	0.0024	0.0021	0.0066	0.005	< 0.000093 U	< 0.0001 U	< 0.00011 U	0.0051	< 0.0024 U	< 0.000088 U	< 0.000077 U
SAE-38	0	N	04/16/08	< 0.00012 U	0.0037 J+	< 0.00017 U	0.011 J+	0.0048 J+	< 0.000095 U	< 0.0001 U	< 0.00011 U	0.0031 J+	< 0.0025 U	< 0.00009 U	< 0.000079 U
SAE-38	10	N	04/23/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-38	10	FD	04/23/08	< 0.00032 U	< 0.00021 U	< 0.000095 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000097 U
SAE-38	35[a]	N	04/23/08	< 0.00051 U	< 0.00033 U	< 0.00015 U	< 0.00032 U	< 0.00034 U	< 0.00016 U	< 0.00047 U	< 0.00035 U	< 0.00031 U	< 0.0039 U	< 0.00028 U	< 0.00015 U
SAE-39	0	N	04/16/08	< 0.00012 U	0.0019 J+	< 0.00016 U	0.0059 J+	< 0.00044 U	< 0.00009 U	< 0.000098 U	< 0.0001 U	0.0032 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-40	0	N	04/16/08	< 0.00012 U	< 0.000092 U	< 0.00016 U	< 0.00026 U	< 0.00044 U	< 0.00009 U	< 0.000099 U	< 0.0001 U	0.0038 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-41	0	N	04/16/08	< 0.00012 U	< 0.000098 U	< 0.00018 U	< 0.00028 U	< 0.00047 U	< 0.000096 U	< 0.00011 U	< 0.00011 U	< 0.00038 U	< 0.0025 U	< 0.000091 U	< 0.00008 U
SAE-41	10	N	04/23/08	< 0.00033 U	< 0.00021 U	< 0.000095 U	< 0.0002 U	< 0.00022 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000097 U
SAE-41	20[a]	N	04/23/08	< 0.00033 U	< 0.00021 U	< 0.000096 U	< 0.00021 U	< 0.00022 U	< 0.0001 U	< 0.0003 U	< 0.00023 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000098 U
SAE-42	0	N	04/16/08	< 0.00011 U	< 0.000091 U	< 0.00016 U	0.0048 J+	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	0.0039 J+	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-43	0	N	04/16/08	< 0.00012 U	< 0.000091 U	< 0.00016 U	< 0.00026 U	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	< 0.00035 U	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-43	10	N	04/23/08	< 0.00033 U	< 0.00022 U	< 0.000096 U	< 0.00021 U	< 0.00022 U	< 0.0001 U	< 0.0003 U	< 0.00023 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000098 U
SAE-43	17[a]	N	04/23/08	< 0.00032 U	< 0.00021 U	< 0.000094 U	< 0.0002 U	< 0.00021 U	< 0.0001 U	< 0.0003 U	< 0.00022 U	< 0.0002 U	< 0.0025 U	< 0.00018 U	< 0.000096 U
SAE-44	0	N	04/16/08	< 0.00011 U	< 0.000091 U	< 0.00016 U	0.0026 J+	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	0.0034 J	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-44	0	FD	04/16/08	< 0.00012 U	< 0.000091 U	< 0.00016 U	0.0024	< 0.00043 U	< 0.000089 U	< 0.000098 U	< 0.0001 U	0.0054 J	< 0.0023 U	< 0.000085 U	< 0.000074 U
SAE-45	0	N	04/16/08	< 0.00057 U	< 0.00045 U	< 0.00081 U	< 0.0013 U	< 0.0022 U	< 0.00044 U	< 0.00049 U	< 0.0005 U	< 0.0017 U	< 0.012 U	< 0.00042 U	< 0.00037 U
SAE-46	0	N	04/16/08	< 0.0011 U	< 0.00091 U	< 0.0016 U	< 0.0026 U	< 0.0043 U	< 0.00089 U	< 0.00098 U	< 0.001 U	< 0.0035 U	< 0.023 U	< 0.00085 U	< 0.00074 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-2
SOIL ORGANOCHLORINE PESTICIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 3 of 4)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Organochlorine Pesticides											
				Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Lindane	Methoxychlor	Toxaphene
SAE-01	0	N	04/16/08	< 0.000084 U	< 0.00015 U	< 0.00012 U	< 0.000084 U	< 0.00011 U	< 0.00039 U	< 0.000086 U	< 0.00059 U	< 0.00012 U	< 0.000084 U	< 0.00071 U	< 0.0072 U
SAE-02	0	N	04/16/08	< 0.000084 U	< 0.00015 U	< 0.00012 U	< 0.000084 U	< 0.00011 U	< 0.00039 U	< 0.000086 U	< 0.00059 U	< 0.00012 U	< 0.000084 U	< 0.00071 U	< 0.0072 U
SAE-03	0	N	04/16/08	< 0.000084 U	< 0.00015 U	< 0.00012 U	< 0.000084 U	< 0.00011 U	< 0.00039 U	< 0.000086 U	< 0.0006 U	< 0.00012 U	< 0.000084 U	< 0.00071 U	< 0.0072 U
SAE-04	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-05	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-06	0	N	04/16/08	< 0.000084 U	< 0.00015 U	< 0.00012 U	< 0.000084 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000084 U	< 0.00071 U	< 0.0072 U
SAE-07	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	0.02 J	< 0.00061 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-07	10	N	04/21/08	< 0.00011 U	< 0.000097 U	< 0.00027 U	< 0.000087 U	< 0.00019 U	< 0.00017 U	< 0.000087 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-07	55[a]	N	04/21/08	< 0.00015 U	< 0.00013 U	< 0.00037 U	< 0.00012 U	< 0.00025 U	< 0.00023 U	< 0.00012 U	< 0.00024 U	< 0.00019 U	< 0.00018 U	< 0.00045 U	< 0.0083 U
SAE-08	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000088 U	< 0.00061 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-08	0	FD	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000088 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-09	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	0.011 J	< 0.00039 U	0.004 J	< 0.0006 U	0.0068 J	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-10	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	0.003 J	< 0.000089 U	< 0.00062 U	0.0041 J	< 0.000087 U	< 0.00073 U	< 0.0075 U
SAE-10	10	N	04/21/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00034 U	< 0.0062 U
SAE-10	60[a]	N	04/21/08	< 0.00015 U	< 0.00013 U	< 0.00038 U	< 0.00012 U	< 0.00026 U	< 0.00024 U	< 0.00012 U	< 0.00025 U	< 0.00019 U	< 0.00018 U	< 0.00045 U	< 0.0084 U
SAE-11	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.000089 U	< 0.00062 U	< 0.00012 U	< 0.000087 U	< 0.00073 U	< 0.0075 U
SAE-12	0	N	04/15/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	< 0.00011 U	< 0.0004 U	< 0.000088 U	< 0.00061 U	< 0.00012 U	< 0.000086 U	< 0.00072 U	< 0.0073 U
SAE-13	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	0.0043 J	< 0.0073 U
SAE-14	0	N	04/15/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	0.016 J	< 0.0004 U	0.027 J	< 0.00061 U	0.013 J	< 0.000086 U	< 0.00072 U	< 0.0074 U
SAE-15	0	N	04/15/08	< 0.000088 U	< 0.00015 U	< 0.00012 U	< 0.000088 U	< 0.00011 U	< 0.0004 U	0.0052 J	< 0.00062 U	0.0031 J	< 0.000088 U	< 0.00074 U	< 0.0075 U
SAE-15	10	N	04/22/08	< 0.00011 U	< 0.000097 U	< 0.00027 U	< 0.000086 U	< 0.00019 U	< 0.00017 U	< 0.000086 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.006 U
SAE-15	10	FD	04/22/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0062 U
SAE-15	55[a]	N	04/22/08	< 0.00011 U	< 0.000097 U	< 0.00027 U	< 0.000087 U	< 0.00019 U	< 0.00017 U	< 0.000087 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-16	0	N	04/15/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	0.011 J	< 0.0004 U	0.02 J+	< 0.00061 U	0.002 J	< 0.000086 U	< 0.00072 U	< 0.0073 U
SAE-17	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	0.0089 J	< 0.00039 U	0.017 J+	< 0.00061 U	0.0022 J	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-18	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00071 U	< 0.0073 U
SAE-19	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.00009 U	< 0.00062 U	< 0.00012 U	< 0.000087 U	< 0.00074 U	< 0.0075 U
SAE-20	0	N	04/15/08	< 0.000088 U	< 0.00015 U	< 0.00012 U	< 0.000088 U	< 0.00011 U	< 0.0004 U	< 0.00009 U	< 0.00062 U	< 0.00012 U	< 0.000088 U	< 0.00074 U	< 0.0075 U
SAE-21	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.00009 U	< 0.00062 U	< 0.00012 U	< 0.000087 U	< 0.00074 U	< 0.0075 U
SAE-22	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000088 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-22	10	N	04/22/08	< 0.00011 U	< 0.000098 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-22	10	FD	04/22/08	< 0.00011 U	< 0.000098 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-22	50[a]	N	04/23/08	< 0.00011 U	< 0.000098 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-23	0	N	04/15/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	0.0019 J	< 0.0004 U	< 0.000089 U	< 0.00061 U	< 0.00012 U	< 0.000086 U	< 0.00073 U	< 0.0074 U
SAE-24	0	N	04/15/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-25	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.000089 U	< 0.00061 U	< 0.00012 U	< 0.000087 U	< 0.00073 U	< 0.0074 U
SAE-26	0	N	04/15/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.000089 U	< 0.00061 U	< 0.00012 U	< 0.000087 U	< 0.00073 U	< 0.0074 U
SAE-27	0	N	04/16/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	< 0.00011 U	< 0.0004 U	< 0.000089 U	< 0.00061 U	< 0.00012 U	< 0.000086 U	< 0.00073 U	< 0.0074 U
SAE-28	0	N	04/16/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	< 0.00011 U	< 0.0004 U	< 0.000088 U	< 0.00061 U	< 0.00012 U	< 0.000086 U	< 0.00072 U	< 0.0074 U

TABLE A-2
SOIL ORGANOCHLORINE PESTICIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 4 of 4)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Organochlorine Pesticides											
				Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Lindane	Methoxychlor	Toxaphene
SAE-29	0	N	04/16/08	< 0.000088 U	< 0.00016 U	< 0.00012 U	< 0.000088 U	< 0.00011 U	< 0.00041 U	< 0.000091 U	< 0.00063 U	< 0.00012 U	< 0.000088 U	< 0.00074 U	< 0.0076 U
SAE-30	0	N	04/16/08	< 0.000087 U	< 0.00015 U	< 0.00012 U	< 0.000087 U	< 0.00011 U	< 0.0004 U	< 0.000089 U	< 0.00061 U	< 0.00012 U	< 0.000087 U	< 0.00073 U	< 0.0074 U
SAE-31	0	N	04/16/08	< 0.000084 U	< 0.00015 U	< 0.00012 U	< 0.000084 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000084 U	< 0.00071 U	< 0.0072 U
SAE-32	0	N	04/16/08	< 0.000086 U	< 0.00015 U	< 0.00012 U	< 0.000086 U	< 0.00011 U	< 0.0004 U	< 0.000088 U	< 0.00061 U	< 0.00012 U	< 0.000086 U	< 0.00072 U	< 0.0073 U
SAE-33	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000088 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-34	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00071 U	< 0.0073 U
SAE-34	10	N	04/23/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-34	35[a]	N	04/23/08	< 0.00013 U	< 0.00011 U	< 0.00031 U	< 0.0001 U	< 0.00022 U	< 0.0002 U	< 0.0001 U	< 0.00021 U	< 0.00016 U	< 0.00015 U	< 0.00038 U	< 0.007 U
SAE-35	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-36	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00071 U	< 0.0072 U
SAE-37	0	N	04/16/08	< 0.000088 U	< 0.00016 U	< 0.00012 U	< 0.000088 U	< 0.00011 U	< 0.00041 U	< 0.000091 U	< 0.00063 U	< 0.00012 U	< 0.000088 U	< 0.00075 U	< 0.0076 U
SAE-38	0	N	04/16/08	< 0.00009 U	< 0.00016 U	< 0.00013 U	< 0.00009 U	< 0.00012 U	< 0.00042 U	< 0.000092 U	< 0.00064 U	< 0.00012 U	< 0.00009 U	< 0.00076 U	< 0.0077 U
SAE-38	10	N	04/23/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-38	10	FD	04/23/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000088 U	< 0.00019 U	< 0.00017 U	< 0.000088 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0062 U
SAE-38	35[a]	N	04/23/08	< 0.00017 U	< 0.00015 U	< 0.00044 U	< 0.00014 U	< 0.0003 U	< 0.00027 U	< 0.00014 U	< 0.00029 U	< 0.00022 U	< 0.0002 U	< 0.00052 U	< 0.0096 U
SAE-39	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-40	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000088 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-41	0	N	04/16/08	< 0.000091 U	< 0.00016 U	< 0.00013 U	< 0.000091 U	< 0.00012 U	< 0.00042 U	< 0.000094 U	< 0.00065 U	< 0.00013 U	< 0.000091 U	< 0.00077 U	< 0.0078 U
SAE-41	10	N	04/23/08	< 0.00011 U	< 0.000099 U	< 0.00028 U	< 0.000089 U	< 0.00019 U	< 0.00017 U	< 0.000089 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00034 U	< 0.0062 U
SAE-41	20[a]	N	04/23/08	< 0.00011 U	< 0.0001 U	< 0.00028 U	< 0.000089 U	< 0.00019 U	< 0.00018 U	< 0.000089 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00034 U	< 0.0062 U
SAE-42	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00071 U	< 0.0073 U
SAE-43	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-43	10	N	04/23/08	< 0.00011 U	< 0.0001 U	< 0.00028 U	< 0.000089 U	< 0.00019 U	< 0.00018 U	< 0.000089 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00034 U	< 0.0062 U
SAE-43	17[a]	N	04/23/08	< 0.00011 U	< 0.000098 U	< 0.00028 U	< 0.000087 U	< 0.00019 U	< 0.00017 U	< 0.000087 U	< 0.00018 U	< 0.00014 U	< 0.00013 U	< 0.00033 U	< 0.0061 U
SAE-44	0	N	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00071 U	< 0.0072 U
SAE-44	0	FD	04/16/08	< 0.000085 U	< 0.00015 U	< 0.00012 U	< 0.000085 U	< 0.00011 U	< 0.00039 U	< 0.000087 U	< 0.0006 U	< 0.00012 U	< 0.000085 U	< 0.00072 U	< 0.0073 U
SAE-45	0	N	04/16/08	< 0.00042 U	< 0.00074 U	< 0.00059 U	< 0.00042 U	< 0.00054 U	< 0.0019 U	< 0.00043 U	< 0.003 U	< 0.00058 U	< 0.00042 U	< 0.0036 U	< 0.036 U
SAE-46	0	N	04/16/08	< 0.00085 U	< 0.0015 U	< 0.0012 U	< 0.00085 U	< 0.0011 U	< 0.0039 U	< 0.00087 U	< 0.006 U	< 0.0012 U	< 0.00085 U	< 0.0071 U	< 0.073 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)
SAE-01	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00055 U	< 0.00029 U	0.0022 J	< 0.00056 U	0.0013 J	0.00096 J	0.0024 J
SAE-02	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00055 U	< 0.00029 U	< 0.00078 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-03	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00055 U	< 0.00029 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-04	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-05	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-06	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00056 U	< 0.00029 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-07	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	0.0012 J	< 0.00022 U	< 0.00091 U
SAE-07	10	N	04/21/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00057 U	< 0.0003 U	< 0.00082 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-07	55[a]	N	04/21/08	< 0.00032 U	< 0.00021 U	< 0.0002 U	< 0.0004 U	< 0.0014 U	< 0.00078 U	< 0.00041 U	< 0.0011 U	< 0.00079 U	< 0.001 U	< 0.00031 U	< 0.0013 U
SAE-08	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-08	0	FD	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-09	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-10	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-10	10	N	04/21/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00095 U
SAE-10	60[a]	N	04/21/08	< 0.00032 U	< 0.00021 U	< 0.0002 U	< 0.00041 U	< 0.0014 U	< 0.00079 U	< 0.00042 U	0.0019 J	< 0.0008 U	< 0.0011 U	< 0.00031 U	< 0.0013 U
SAE-11	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-12	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00098 U	< 0.00057 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00092 U
SAE-13	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-14	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00098 U	< 0.00057 U	< 0.0003 U	0.0023 J	< 0.00057 U	0.0018 J	0.00099 J	0.0035 J
SAE-15	0	N	04/15/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00094 U
SAE-15	10	N	04/22/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00092 U
SAE-15	10	FD	04/22/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00095 U
SAE-15	55[a]	N	04/22/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-16	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00092 U
SAE-17	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-18	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.0009 U
SAE-19	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.0003 U	< 0.00082 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-20	0	N	04/15/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00094 U
SAE-21	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00058 U	< 0.00077 U	< 0.00023 U	< 0.00093 U
SAE-22	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-22	10	N	04/22/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-22	10	FD	04/22/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00059 U	< 0.00077 U	< 0.00023 U	< 0.00094 U
SAE-22	50[a]	N	04/23/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-23	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00092 U
SAE-24	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-25	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00093 U
SAE-26	0	N	04/15/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00093 U
SAE-27	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00092 U
SAE-28	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00098 U	< 0.00057 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00076 U	< 0.00022 U	< 0.00092 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethylene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)
SAE-29	0	N	04/16/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-30	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00015 U	< 0.00029 U	< 0.00099 U	< 0.00057 U	< 0.0003 U	< 0.00081 U	< 0.00058 U	< 0.00076 U	< 0.00023 U	< 0.00093 U
SAE-31	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00056 U	< 0.00029 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-32	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00092 U
SAE-33	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-34	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-34	10	N	04/23/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-34	35[a]	N	04/23/08	< 0.00027 U	< 0.00018 U	< 0.00017 U	< 0.00034 U	< 0.0011 U	< 0.00066 U	< 0.00035 U	< 0.00094 U	< 0.00067 U	< 0.00088 U	< 0.00026 U	< 0.0011 U
SAE-35	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-36	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-37	0	N	04/16/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-38	0	N	04/16/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.00031 U	< 0.001 U	< 0.00059 U	< 0.00031 U	< 0.00084 U	< 0.0006 U	< 0.00079 U	< 0.00024 U	< 0.00096 U
SAE-38	10	N	04/23/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00094 U
SAE-38	10	FD	04/23/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00095 U
SAE-38	35[a]	N	04/23/08	< 0.00037 U	< 0.00024 U	< 0.00023 U	< 0.00047 U	< 0.0016 U	< 0.00091 U	< 0.00048 U	< 0.0013 U	< 0.00092 U	< 0.0012 U	< 0.00036 U	< 0.0015 U
SAE-39	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-40	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00098 U	< 0.00056 U	< 0.0003 U	< 0.0008 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-41	0	N	04/16/08	< 0.00025 U	< 0.00016 U	< 0.00015 U	< 0.00031 U	< 0.001 U	< 0.0006 U	< 0.00032 U	< 0.00085 U	< 0.00061 U	< 0.0008 U	< 0.00024 U	< 0.00097 U
SAE-41	10	N	04/23/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00059 U	< 0.00031 U	< 0.00083 U	< 0.00059 U	< 0.00078 U	< 0.00023 U	< 0.00095 U
SAE-41	20[a]	N	04/23/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00059 U	< 0.00031 U	< 0.00084 U	< 0.0006 U	< 0.00079 U	< 0.00023 U	< 0.00096 U
SAE-42	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.0009 U
SAE-43	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-43	10	N	04/23/08	< 0.00024 U	< 0.00016 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00059 U	< 0.00031 U	< 0.00084 U	< 0.0006 U	< 0.00079 U	< 0.00023 U	< 0.00096 U
SAE-43	17[a]	N	04/23/08	< 0.00024 U	< 0.00015 U	< 0.00015 U	< 0.0003 U	< 0.001 U	< 0.00058 U	< 0.00031 U	< 0.00082 U	< 0.00059 U	< 0.00077 U	< 0.00023 U	< 0.00094 U
SAE-44	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-44	0	FD	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U
SAE-45	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00096 U	< 0.00055 U	< 0.00029 U	< 0.00079 U	< 0.00056 U	< 0.00074 U	< 0.00022 U	< 0.0009 U
SAE-46	0	N	04/16/08	< 0.00023 U	< 0.00015 U	< 0.00014 U	< 0.00029 U	< 0.00097 U	< 0.00056 U	< 0.0003 U	< 0.00079 U	< 0.00057 U	< 0.00075 U	< 0.00022 U	< 0.00091 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethylene	1,2-Dichloropropane	1,3,5-Trichlorobenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1-Nonanal	2,2,3-Trimethylbutane	2,2-Dichloropropane
SAE-01	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	0.0006 J	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 UJ	< 0.00021 U	< 0.00017 U
SAE-02	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00017 U
SAE-03	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00017 U
SAE-04	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00021 U	< 0.00018 U
SAE-05	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00021 U	< 0.00018 U
SAE-06	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00018 U
SAE-07	0	N	04/16/08	0.0011 J	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	0.00032 J	< 0.00018 U	0.0016 J	< 0.0009 U	< 0.00022 U	< 0.00018 U
SAE-07	10	N	04/21/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 U	< 0.00022 U	< 0.00018 U
SAE-07	55[a]	N	04/21/08	< 0.00021 U	< 0.00062 U	< 0.00077 U	< 0.00053 U	< 0.00096 U	< 0.0003 U	< 0.00019 U	< 0.00025 U	< 0.00015 U	< 0.0013 U	< 0.0003 U	< 0.00025 U
SAE-08	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00022 U	< 0.00018 U
SAE-08	0	FD	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00022 U	< 0.00018 U
SAE-09	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-10	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-10	10	N	04/21/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00012 U	< 0.00094 U	< 0.00022 U	< 0.00018 U
SAE-10	60[a]	N	04/21/08	< 0.00022 U	< 0.00063 U	< 0.00078 U	< 0.00054 U	< 0.00097 U	< 0.0003 U	< 0.00019 U	< 0.00026 U	< 0.00016 U	< 0.0013 U	< 0.0003 U	< 0.00025 U
SAE-11	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-12	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00091 UJ	< 0.00022 U	< 0.00018 U
SAE-13	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-14	0	N	04/15/08	0.0011 J	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.0007 U	0.00064 J	0.0005 J	< 0.00018 U	0.0014 J	< 0.00091 U	< 0.00022 U	< 0.00018 U
SAE-15	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-15	10	N	04/22/08	< 0.00016 U	< 0.00045 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00091 U	< 0.00022 U	< 0.00018 U
SAE-15	10	FD	04/22/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-15	55[a]	N	04/22/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 U	< 0.00022 U	< 0.00018 U
SAE-16	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00022 U	< 0.00018 U
SAE-17	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00022 U	< 0.00018 U
SAE-18	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 UJ	< 0.00021 U	< 0.00018 U
SAE-19	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-20	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 U	< 0.00022 U	< 0.00018 U
SAE-21	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 U	< 0.00022 U	< 0.00018 U
SAE-22	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00022 U	< 0.00018 U
SAE-22	10	N	04/22/08	< 0.00016 U	< 0.00046 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-22	10	FD	04/22/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 UJ	< 0.00022 U	< 0.00018 U
SAE-22	50[a]	N	04/23/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-23	0	N	04/15/08	< 0.00016 U	< 0.00045 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00019 U	< 0.00011 U	< 0.00091 U	< 0.00022 U	< 0.00018 U
SAE-24	0	N	04/15/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-25	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-26	0	N	04/15/08	< 0.00016 U	< 0.00046 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-27	0	N	04/16/08	< 0.00016 U	< 0.00045 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00019 U	< 0.00011 U	< 0.00091 U	< 0.00022 U	< 0.00018 U
SAE-28	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00091 U	< 0.00022 U	< 0.00018 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethylene	1,2-Dichloropropane	1,3,5-Trichlorobenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	1-Nonanal	2,2,3-Trimethylbutane	2,2-Dichloropropane
SAE-29	0	N	04/16/08	< 0.00016 U	< 0.00046 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-30	0	N	04/16/08	< 0.00016 U	< 0.00046 U	< 0.00056 U	< 0.00039 U	< 0.0007 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00092 UJ	< 0.00022 U	< 0.00018 U
SAE-31	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	0.0067 J+	< 0.00021 U	< 0.00018 U
SAE-32	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.0007 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00022 U	< 0.00018 U
SAE-33	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	0.0053 J+	< 0.00022 U	< 0.00018 U
SAE-34	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-34	10	N	04/23/08	< 0.00016 U	< 0.00046 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-34	35[a]	N	04/23/08	< 0.00018 U	< 0.00053 U	< 0.00065 U	< 0.00045 U	< 0.00081 U	< 0.00025 U	< 0.00016 U	< 0.00022 U	< 0.00013 U	< 0.0011 U	< 0.00025 U	< 0.00021 U
SAE-35	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-36	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00018 U
SAE-37	0	N	04/16/08	< 0.00016 U	< 0.00046 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 UJ	< 0.00022 U	< 0.00018 U
SAE-38	0	N	04/16/08	< 0.00016 U	< 0.00047 U	< 0.00059 U	< 0.0004 U	< 0.00073 U	< 0.00023 U	< 0.00014 U	< 0.00019 U	< 0.00012 U	< 0.00095 UJ	< 0.00023 U	< 0.00019 U
SAE-38	10	N	04/23/08	< 0.00016 U	< 0.00046 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-38	10	FD	04/23/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00094 UJ	< 0.00022 U	< 0.00018 U
SAE-38	35[a]	N	04/23/08	< 0.00025 U	< 0.00073 U	< 0.0009 U	< 0.00062 U	< 0.0011 U	< 0.00035 U	< 0.00022 U	< 0.0003 U	< 0.00018 U	< 0.0015 U	< 0.00035 U	< 0.00029 U
SAE-39	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 UJ	< 0.00021 U	< 0.00018 U
SAE-40	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00056 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00022 U	< 0.00018 U
SAE-41	0	N	04/16/08	< 0.00016 U	< 0.00048 U	< 0.00059 U	< 0.00041 U	< 0.00074 U	< 0.00023 U	< 0.00014 U	< 0.0002 U	< 0.00012 U	< 0.00096 UJ	< 0.00023 U	< 0.00019 U
SAE-41	10	N	04/23/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00072 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00012 U	< 0.00094 U	< 0.00022 U	< 0.00018 U
SAE-41	20[a]	N	04/23/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00073 U	< 0.00023 U	< 0.00014 U	< 0.00019 U	< 0.00012 U	< 0.00095 U	< 0.00023 U	< 0.00019 U
SAE-42	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00018 U
SAE-43	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00021 U	< 0.00018 U
SAE-43	10	N	04/23/08	< 0.00016 U	< 0.00047 U	< 0.00058 U	< 0.0004 U	< 0.00073 U	< 0.00023 U	< 0.00014 U	< 0.00019 U	< 0.00012 U	< 0.00095 U	< 0.00023 U	< 0.00019 U
SAE-43	17[a]	N	04/23/08	< 0.00016 U	< 0.00046 U	< 0.00057 U	< 0.00039 U	< 0.00071 U	< 0.00022 U	< 0.00014 U	< 0.00019 U	< 0.00011 U	< 0.00093 U	< 0.00022 U	< 0.00018 U
SAE-44	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00018 U
SAE-44	0	FD	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00022 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.0009 U	< 0.00021 U	< 0.00018 U
SAE-45	0	N	04/16/08	< 0.00015 U	< 0.00044 U	< 0.00055 U	< 0.00038 U	< 0.00068 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00017 U
SAE-46	0	N	04/16/08	< 0.00015 U	< 0.00045 U	< 0.00055 U	< 0.00038 U	< 0.00069 U	< 0.00021 U	< 0.00013 U	< 0.00018 U	< 0.00011 U	< 0.00089 U	< 0.00021 U	< 0.00018 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				2,2-Dimethylpentane	2,3-Dimethylpentane	2,4-Dimethylpentane	2-Chlorotoluene	2-Nitropropane	2-Phenylbutane	3,3-Dimethylpentane	3-Ethylpentane	3-Methylhexane	4-Chlorotoluene	Acetone	Acetonitrile
SAE-01	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.00019 U	< 0.00046 U	< 0.0018 U	0.0005 J	< 0.0002 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	< 0.0038 U	< 0.002 UJ
SAE-02	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.00019 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.0002 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	0.16	< 0.002 UJ
SAE-03	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.00019 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	< 0.0038 U	< 0.002 UJ
SAE-04	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	0.054	< 0.002 UJ
SAE-05	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-06	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	< 0.0039 U	< 0.002 UJ
SAE-07	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	0.11	< 0.002 UJ
SAE-07	10	N	04/21/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-07	55[a]	N	04/21/08	< 0.00039 U	< 0.00032 U	< 0.00027 U	< 0.00065 U	< 0.0025 U	< 0.00035 U	< 0.00029 U	< 0.0003 U	< 0.0002 U	< 0.0013 U	< 0.0054 U	< 0.0028 UJ
SAE-08	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-08	0	FD	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-09	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-10	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	0.13	< 0.0021 UJ
SAE-10	10	N	04/21/08	< 0.00029 U	< 0.00024 U	< 0.00021 U	< 0.00049 U	< 0.0019 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00094 U	< 0.0041 U	< 0.0021 UJ
SAE-10	60[a]	N	04/21/08	< 0.0004 U	< 0.00032 U	< 0.00028 U	< 0.00066 U	< 0.0025 U	< 0.00035 U	< 0.00029 U	< 0.0003 U	< 0.0002 U	< 0.0013 U	0.015 J	< 0.0029 UJ
SAE-11	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-12	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.00091 U	0.2	< 0.002 UJ
SAE-13	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-14	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	0.0005 J	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.00091 U	< 0.0039 U	< 0.002 UJ
SAE-15	0	N	04/15/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-15	10	N	04/22/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-15	10	FD	04/22/08	< 0.00029 U	< 0.00024 U	< 0.00021 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00094 U	< 0.004 U	< 0.0021 UJ
SAE-15	55[a]	N	04/22/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-16	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.00091 U	< 0.0039 U	< 0.002 UJ
SAE-17	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	0.033	< 0.002 UJ
SAE-18	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	0.04	< 0.002 UJ
SAE-19	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-20	0	N	04/15/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-21	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-22	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	0.053	< 0.002 UJ
SAE-22	10	N	04/22/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	0.01 J	< 0.0021 UJ
SAE-22	10	FD	04/22/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-22	50[a]	N	04/23/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-23	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00091 U	< 0.004 U	< 0.0021 UJ
SAE-24	0	N	04/15/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-25	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	< 0.004 U	< 0.0021 UJ
SAE-26	0	N	04/15/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	0.2	< 0.0021 UJ
SAE-27	0	N	04/16/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00091 U	< 0.004 U	< 0.0021 UJ
SAE-28	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.00091 U	< 0.0039 U	< 0.002 UJ

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				2,2-Dimethylpentane	2,3-Dimethylpentane	2,4-Dimethylpentane	2-Chlorotoluene	2-Nitropropane	2-Phenylbutane	3,3-Dimethylpentane	3-Ethylpentane	3-Methylhexane	4-Chlorotoluene	Acetone	Acetonitrile
SAE-29	0	N	04/16/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-30	0	N	04/16/08	< 0.00029 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00092 U	0.34 J	< 0.0021 UJ
SAE-31	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	0.096	< 0.002 UJ
SAE-32	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.00091 U	< 0.0039 U	< 0.002 UJ
SAE-33	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-34	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-34	10	N	04/23/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-34	35[a]	N	04/23/08	< 0.00033 U	< 0.00027 U	< 0.00023 U	< 0.00055 U	< 0.0021 U	< 0.0003 U	< 0.00024 U	< 0.00025 U	< 0.00017 U	< 0.0011 U	< 0.0046 U	< 0.0024 UJ
SAE-35	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-36	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	< 0.0039 U	< 0.002 UJ
SAE-37	0	N	04/16/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00094 U	< 0.004 U	< 0.0021 UJ
SAE-38	0	N	04/16/08	< 0.0003 U	< 0.00024 U	< 0.00021 U	< 0.00049 U	< 0.0019 U	< 0.00027 U	< 0.00022 U	< 0.00023 U	< 0.00015 U	< 0.00095 U	< 0.0041 U	< 0.0021 UJ
SAE-38	10	N	04/23/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-38	10	FD	04/23/08	< 0.00029 U	< 0.00024 U	< 0.00021 U	< 0.00048 U	< 0.0019 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00094 U	< 0.0041 U	< 0.0021 UJ
SAE-38	35[a]	N	04/23/08	< 0.00046 U	< 0.00037 U	< 0.00032 U	< 0.00076 U	< 0.0029 U	< 0.00041 U	< 0.00034 U	< 0.00035 U	< 0.00023 U	< 0.0015 U	< 0.0063 U	< 0.0033 UJ
SAE-39	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-40	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00047 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00022 U	< 0.00014 U	< 0.0009 U	0.18	< 0.002 UJ
SAE-41	0	N	04/16/08	< 0.0003 U	< 0.00025 U	< 0.00021 U	< 0.0005 U	< 0.0019 U	< 0.00027 U	< 0.00022 U	< 0.00023 U	< 0.00015 U	< 0.00096 U	< 0.0042 U	< 0.0022 UJ
SAE-41	10	N	04/23/08	< 0.00029 U	< 0.00024 U	< 0.00021 U	< 0.00049 U	< 0.0019 U	< 0.00026 U	< 0.00022 U	< 0.00022 U	< 0.00015 U	< 0.00094 U	< 0.0041 U	< 0.0021 UJ
SAE-41	20[a]	N	04/23/08	< 0.0003 U	< 0.00024 U	< 0.00021 U	< 0.00049 U	< 0.0019 U	< 0.00026 U	< 0.00022 U	< 0.00023 U	< 0.00015 U	< 0.00095 U	< 0.0041 U	< 0.0021 UJ
SAE-42	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	< 0.0039 U	< 0.002 UJ
SAE-43	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	0.098	< 0.002 UJ
SAE-43	10	N	04/23/08	< 0.0003 U	< 0.00024 U	< 0.00021 U	< 0.00049 U	< 0.0019 U	< 0.00026 U	< 0.00022 U	< 0.00023 U	< 0.00015 U	< 0.00095 U	< 0.0041 U	< 0.0021 UJ
SAE-43	17[a]	N	04/23/08	< 0.00029 U	< 0.00024 U	< 0.0002 U	< 0.00048 U	< 0.0018 U	< 0.00026 U	< 0.00021 U	< 0.00022 U	< 0.00015 U	< 0.00093 U	< 0.004 U	< 0.0021 UJ
SAE-44	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	0.9 J	< 0.002 UJ
SAE-44	0	FD	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	0.14 J	< 0.002 UJ
SAE-45	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.00089 U	0.064	< 0.002 UJ
SAE-46	0	N	04/16/08	< 0.00028 U	< 0.00023 U	< 0.0002 U	< 0.00046 U	< 0.0018 U	< 0.00025 U	< 0.00021 U	< 0.00021 U	< 0.00014 U	< 0.0009 U	1.3	< 0.002 UJ

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				Benzene	Bromobenzene	Bromodichloromethane	Bromomethane	Carbon disulfide	Carbon tetrachloride	CFC-11	CFC-12	Chlorinated fluorocarbon (Freon 113)	Chlorobenzene	Chlorobromomethane	Chlorodibromomethane
SAE-01	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00031 U	< 0.00055 U	< 0.00091 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00012 U	< 0.00041 U	< 0.00029 U
SAE-02	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00031 U	< 0.00055 U	< 0.00091 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00012 U	< 0.00041 U	< 0.00029 U
SAE-03	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00091 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-04	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-05	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-06	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-07	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-07	10	N	04/21/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-07	55[a]	N	04/21/08	< 0.00024 U	< 0.00032 U	< 0.00048 U	< 0.00044 U	< 0.00078 U	< 0.0013 U	< 0.00072 U	< 0.00053 U	< 0.00076 U	< 0.00018 U	< 0.00058 U	< 0.00041 U
SAE-08	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-08	0	FD	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-09	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-10	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00057 U	< 0.00094 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-10	10	N	04/21/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00033 U	< 0.00059 U	< 0.00096 U	< 0.00054 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-10	60[a]	N	04/21/08	< 0.00024 U	< 0.00033 U	< 0.00048 U	< 0.00045 U	< 0.00079 U	< 0.0013 U	< 0.00073 U	< 0.00054 U	< 0.00077 U	< 0.00018 U	< 0.00059 U	< 0.00042 U
SAE-11	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-12	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00057 U	< 0.00093 U	< 0.00052 U	< 0.00039 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-13	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-14	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00057 U	< 0.00093 U	< 0.00052 U	< 0.00039 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-15	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-15	10	N	04/22/08	< 0.00018 U	< 0.00023 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-15	10	FD	04/22/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-15	55[a]	N	04/22/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00057 U	< 0.00094 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-16	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00057 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-17	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-18	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-19	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-20	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-21	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-22	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-22	10	N	04/22/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-22	10	FD	04/22/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-22	50[a]	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-23	0	N	04/15/08	< 0.00018 U	< 0.00023 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-24	0	N	04/15/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-25	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-26	0	N	04/15/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-27	0	N	04/16/08	< 0.00018 U	< 0.00023 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00055 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-28	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00057 U	< 0.00093 U	< 0.00052 U	< 0.00039 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				Benzene	Bromobenzene	Bromodichloromethane	Bromomethane	Carbon disulfide	Carbon tetrachloride	CFC-11	CFC-12	Chlorinated fluorocarbon (Freon 113)	Chlorobenzene	Chlorobromomethane	Chlorodibromomethane
SAE-29	0	N	04/16/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-30	0	N	04/16/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00032 U	< 0.00057 U	< 0.00094 U	< 0.00052 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-31	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-32	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00057 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-33	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-34	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-34	10	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-34	35[a]	N	04/23/08	< 0.0002 U	< 0.00027 U	< 0.0004 U	< 0.00038 U	< 0.00066 U	< 0.0011 U	< 0.0006 U	< 0.00045 U	< 0.00064 U	< 0.00015 U	< 0.00049 U	< 0.00035 U
SAE-35	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-36	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-37	0	N	04/16/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-38	0	N	04/16/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00034 U	< 0.00059 U	< 0.00098 U	< 0.00054 U	< 0.0004 U	< 0.00058 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-38	10	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-38	10	FD	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00033 U	< 0.00058 U	< 0.00096 U	< 0.00053 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-38	35[a]	N	04/23/08	< 0.00028 U	< 0.00038 U	< 0.00055 U	< 0.00052 U	< 0.00091 U	< 0.0015 U	< 0.00084 U	< 0.00062 U	< 0.00089 U	< 0.00021 U	< 0.00068 U	< 0.00048 U
SAE-39	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-40	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00093 U	< 0.00052 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.0003 U
SAE-41	0	N	04/16/08	< 0.00019 U	< 0.00025 U	< 0.00037 U	< 0.00034 U	< 0.0006 U	< 0.00099 U	< 0.00055 U	< 0.00041 U	< 0.00059 U	< 0.00014 U	< 0.00045 U	< 0.00032 U
SAE-41	10	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00033 U	< 0.00059 U	< 0.00096 U	< 0.00054 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-41	20[a]	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00034 U	< 0.00059 U	< 0.00097 U	< 0.00054 U	< 0.0004 U	< 0.00057 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-42	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-43	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-43	10	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00036 U	< 0.00034 U	< 0.00059 U	< 0.00097 U	< 0.00054 U	< 0.0004 U	< 0.00058 U	< 0.00013 U	< 0.00044 U	< 0.00031 U
SAE-43	17[a]	N	04/23/08	< 0.00018 U	< 0.00024 U	< 0.00035 U	< 0.00033 U	< 0.00058 U	< 0.00095 U	< 0.00053 U	< 0.00039 U	< 0.00056 U	< 0.00013 U	< 0.00043 U	< 0.0003 U
SAE-44	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-44	0	FD	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00055 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-45	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00091 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U
SAE-46	0	N	04/16/08	< 0.00017 U	< 0.00023 U	< 0.00034 U	< 0.00032 U	< 0.00056 U	< 0.00092 U	< 0.00051 U	< 0.00038 U	< 0.00054 U	< 0.00013 U	< 0.00042 U	< 0.00029 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropylene	Cymene	Dibromomethane	Dichloromethane	Ethanol	Ethylbenzene	Hexane, 2-methyl-	Isopropylbenzene
SAE-01	0	N	04/16/08	< 0.00035 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00073 U	< 0.00024 U	< 0.00035 U	0.0051	< 0.2 UJ	< 0.00019 U	< 0.0002 U	< 0.00018 U
SAE-02	0	N	04/16/08	< 0.00035 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00073 U	< 0.00024 U	< 0.00035 U	0.0064	< 0.2 UJ	< 0.00019 U	< 0.0002 U	< 0.00018 U
SAE-03	0	N	04/16/08	< 0.00035 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00035 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-04	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-05	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-06	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-07	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	0.004 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-07	10	N	04/21/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00019 U
SAE-07	55[a]	N	04/21/08	< 0.0005 U	0.026	< 0.00063 U	< 0.00061 U	< 0.001 U	< 0.00034 U	< 0.0005 U	< 0.0036 U	< 0.28 UJ	< 0.00026 U	< 0.00029 U	< 0.00025 U
SAE-08	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-08	0	FD	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-09	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	0.0026 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-10	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-10	10	N	04/21/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00046 U	< 0.00078 U	< 0.00025 U	< 0.00037 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-10	60[a]	N	04/21/08	< 0.00051 U	0.015	< 0.00064 U	< 0.00062 U	< 0.001 U	< 0.00034 U	< 0.00051 U	< 0.0036 U	< 0.28 UJ	< 0.00027 U	< 0.00029 U	< 0.00026 U
SAE-11	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00019 U
SAE-12	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00025 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-13	0	N	04/15/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-14	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00025 U	< 0.00036 U	0.018	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-15	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	0.01	< 0.2 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-15	10	N	04/22/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00076 U	< 0.00025 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-15	10	FD	04/22/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-15	55[a]	N	04/22/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-16	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-17	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-18	0	N	04/15/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	0.0042 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-19	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	0.0036 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00019 U
SAE-20	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	0.0033 J	< 0.2 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-21	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00019 U
SAE-22	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-22	10	N	04/22/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	0.0031 J	< 0.21 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-22	10	FD	04/22/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-22	50[a]	N	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.21 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-23	0	N	04/15/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00076 U	< 0.00025 U	< 0.00036 U	0.0035 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-24	0	N	04/15/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	0.0039 J	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-25	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	0.013	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-26	0	N	04/15/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	0.0054	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-27	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00025 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-28	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00025 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropylene	Cymene	Dibromomethane	Dichloromethane	Ethanol	Ethylbenzene	Hexane, 2-methyl-	Isopropylbenzene
SAE-29	0	N	04/16/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-30	0	N	04/16/08	< 0.00037 U	< 0.00015 U	< 0.00046 U	< 0.00045 U	< 0.00076 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-31	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-32	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00046 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-33	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-34	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-34	10	N	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-34	35[a]	N	04/23/08	< 0.00042 U	< 0.00017 U	< 0.00053 U	< 0.00051 U	< 0.00088 U	< 0.00029 U	< 0.00042 U	< 0.003 U	< 0.23 UJ	< 0.00022 U	< 0.00024 U	< 0.00021 U
SAE-35	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-36	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-37	0	N	04/16/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-38	0	N	04/16/08	< 0.00038 U	< 0.00015 U	< 0.00048 U	< 0.00046 U	< 0.00079 U	< 0.00026 U	< 0.00038 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-38	10	N	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-38	10	FD	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00046 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-38	35[a]	N	04/23/08	< 0.00058 U	0.0078 J	< 0.00074 U	< 0.00071 U	< 0.0012 U	< 0.0004 U	< 0.00058 U	< 0.0042 U	< 0.32 UJ	< 0.00031 U	< 0.00034 U	< 0.00029 U
SAE-39	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-40	0	N	04/16/08	< 0.00036 U	< 0.00015 U	< 0.00045 U	< 0.00044 U	< 0.00075 U	< 0.00024 U	< 0.00036 U	< 0.0026 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-41	0	N	04/16/08	< 0.00038 U	< 0.00016 U	< 0.00049 U	< 0.00047 U	< 0.0008 U	< 0.00026 U	< 0.00038 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-41	10	N	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00046 U	< 0.00078 U	< 0.00025 U	< 0.00037 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-41	20[a]	N	04/23/08	< 0.00038 U	< 0.00015 U	< 0.00048 U	< 0.00046 U	< 0.00078 U	< 0.00026 U	< 0.00038 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-42	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-43	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-43	10	N	04/23/08	< 0.00038 U	< 0.00015 U	< 0.00048 U	< 0.00046 U	< 0.00078 U	< 0.00026 U	< 0.00038 U	< 0.0027 U	< 0.21 UJ	< 0.0002 U	< 0.00022 U	< 0.00019 U
SAE-43	17[a]	N	04/23/08	< 0.00037 U	< 0.00015 U	< 0.00047 U	< 0.00045 U	< 0.00077 U	< 0.00025 U	< 0.00037 U	< 0.0026 U	< 0.2 UJ	< 0.0002 U	< 0.00021 U	< 0.00019 U
SAE-44	0	N	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	0.0028 J	< 0.00021 U	< 0.00018 U
SAE-44	0	FD	04/16/08	< 0.00036 U	< 0.00014 U	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-45	0	N	04/16/08	< 0.00035 U	< 0.00014 U	< 0.00045 U	< 0.00043 U	< 0.00074 U	< 0.00024 U	< 0.00035 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U
SAE-46	0	N	04/16/08	< 0.00036 U	0.00083 J	< 0.00045 U	< 0.00044 U	< 0.00074 U	< 0.00024 U	< 0.00036 U	< 0.0025 U	< 0.2 UJ	< 0.00019 U	< 0.00021 U	< 0.00018 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				m,p-Xylene	Methyl disulfide	Methyl ethyl ketone	Methyl iodide	Methyl isobutyl ketone	Methyl n-butyl ketone	MTBE (Methyl tert-butyl ether)	n-Butyl benzene	n-Heptane	n-Propyl benzene	o-Xylene	Styrene (monomer)
SAE-01	0	N	04/16/08	< 0.00057 U	< 0.00021 U	0.0078 J	< 0.00026 U	0.0059 J	0.0074 J	< 0.00046 U	0.0008 J	< 0.00016 U	< 0.00095 U	< 0.00031 U	< 0.0012 U
SAE-02	0	N	04/16/08	0.0018 J	< 0.00021 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00028 U	< 0.00046 U	< 0.00053 U	< 0.00016 U	< 0.00095 U	< 0.00031 U	< 0.0012 U
SAE-03	0	N	04/16/08	< 0.00057 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00028 U	< 0.00046 U	< 0.00054 U	< 0.00016 U	< 0.00095 U	< 0.00031 U	< 0.0012 U
SAE-04	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-05	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-06	0	N	04/16/08	< 0.00057 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00028 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-07	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-07	10	N	04/21/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-07	55[a]	N	04/21/08	< 0.00081 U	< 0.0003 U	< 0.0019 U	< 0.00037 U	< 0.0023 U	< 0.0004 U	< 0.00065 U	< 0.00076 U	< 0.00023 U	< 0.0013 U	< 0.00044 U	< 0.0017 U
SAE-08	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-08	0	FD	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-09	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-10	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-10	10	N	04/21/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00057 U	< 0.00017 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-10	60[a]	N	04/21/08	< 0.00082 U	< 0.00031 U	0.0048 J	< 0.00037 U	< 0.0023 U	< 0.00041 U	< 0.00066 U	< 0.00077 U	< 0.00024 U	< 0.0014 U	< 0.00044 U	< 0.0017 U
SAE-11	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-12	0	N	04/15/08	< 0.00058 U	< 0.00022 U	0.0059 J	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00055 U	< 0.00017 U	< 0.00097 U	< 0.00032 U	< 0.0012 U
SAE-13	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-14	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	0.0072 J	0.013 J	< 0.00047 U	0.00085 J	< 0.00017 U	< 0.00097 U	< 0.00032 U	< 0.0012 U
SAE-15	0	N	04/15/08	< 0.0006 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-15	10	N	04/22/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-15	10	FD	04/22/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-15	55[a]	N	04/22/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-16	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00055 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-17	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-18	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-19	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-20	0	N	04/15/08	< 0.0006 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-21	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.00099 U	< 0.00032 U	< 0.0013 U
SAE-22	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-22	10	N	04/22/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-22	10	FD	04/22/08	< 0.0006 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-22	50[a]	N	04/23/08	< 0.0006 U	< 0.00023 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-23	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-24	0	N	04/15/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-25	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-26	0	N	04/15/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-27	0	N	04/16/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-28	0	N	04/16/08	< 0.00059 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs											
				m,p-Xylene	Methyl disulfide	Methyl ethyl ketone	Methyl iodide	Methyl isobutyl ketone	Methyl n-butyl ketone	MTBE (Methyl tert-butyl ether)	n-Butyl benzene	n-Heptane	n-Propyl benzene	o-Xylene	Styrene (monomer)
SAE-29	0	N	04/16/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-30	0	N	04/16/08	< 0.00059 U	< 0.00022 U	0.0093 J	< 0.00027 U	< 0.0017 U	< 0.00029 U	< 0.00048 U	< 0.00055 U	< 0.00017 U	< 0.00098 U	< 0.00032 U	< 0.0012 U
SAE-31	0	N	04/16/08	< 0.00057 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00028 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-32	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0017 U	< 0.00029 U	< 0.00047 U	< 0.00055 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-33	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-34	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-34	10	N	04/23/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-34	35[a]	N	04/23/08	< 0.00068 U	< 0.00026 U	< 0.0016 U	< 0.00031 U	< 0.0019 U	< 0.00034 U	< 0.00055 U	< 0.00064 U	< 0.0002 U	< 0.0011 U	< 0.00037 U	< 0.0014 U
SAE-35	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-36	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-37	0	N	04/16/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-38	0	N	04/16/08	< 0.00061 U	< 0.00023 U	< 0.0015 U	< 0.00028 U	< 0.0017 U	< 0.0003 U	< 0.0005 U	< 0.00057 U	< 0.00018 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-38	10	N	04/23/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-38	10	FD	04/23/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-38	35[a]	N	04/23/08	< 0.00094 U	< 0.00035 U	< 0.0023 U	< 0.00043 U	< 0.0027 U	< 0.00047 U	< 0.00076 U	< 0.00088 U	< 0.00027 U	< 0.0016 U	< 0.00051 U	< 0.002 U
SAE-39	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-40	0	N	04/16/08	< 0.00058 U	< 0.00022 U	0.0062 J	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00097 U	< 0.00031 U	< 0.0012 U
SAE-41	0	N	04/16/08	< 0.00062 U	< 0.00023 U	< 0.0015 U	< 0.00028 U	< 0.0018 U	< 0.00031 U	< 0.0005 U	< 0.00058 U	< 0.00018 U	< 0.001 U	< 0.00034 U	< 0.0013 U
SAE-41	10	N	04/23/08	< 0.0006 U	< 0.00023 U	< 0.0015 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00057 U	< 0.00017 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-41	20[a]	N	04/23/08	< 0.00061 U	< 0.00023 U	< 0.0015 U	< 0.00028 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00057 U	< 0.00018 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-42	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-43	0	N	04/16/08	< 0.00058 U	< 0.00022 U	0.0032 J	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-43	10	N	04/23/08	< 0.00061 U	< 0.00023 U	< 0.0015 U	< 0.00028 U	< 0.0017 U	< 0.0003 U	< 0.00049 U	< 0.00057 U	< 0.00018 U	< 0.001 U	< 0.00033 U	< 0.0013 U
SAE-43	17[a]	N	04/23/08	< 0.0006 U	< 0.00022 U	< 0.0014 U	< 0.00027 U	< 0.0017 U	< 0.0003 U	< 0.00048 U	< 0.00056 U	< 0.00017 U	< 0.001 U	< 0.00032 U	< 0.0013 U
SAE-44	0	N	04/16/08	0.01	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	0.0038 J	< 0.0012 U
SAE-44	0	FD	04/16/08	0.0066	< 0.00022 U	0.007 J	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-45	0	N	04/16/08	< 0.00057 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00028 U	< 0.00046 U	< 0.00054 U	< 0.00016 U	< 0.00096 U	< 0.00031 U	< 0.0012 U
SAE-46	0	N	04/16/08	< 0.00058 U	< 0.00022 U	< 0.0014 U	< 0.00026 U	< 0.0016 U	< 0.00029 U	< 0.00047 U	< 0.00054 U	< 0.00017 U	< 0.00096 U	< 0.00031 U	< 0.0012 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs									
				tert-Butyl benzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropylene	Tribromomethane	Trichloroethylene	Vinyl acetate	Vinyl chloride	Xylenes (total)
SAE-01	0	N	04/16/08	0.00041 J	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00086 U
SAE-02	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	0.0018 J
SAE-03	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-04	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-05	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-06	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-07	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-07	10	N	04/21/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00037 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-07	55[a]	N	04/21/08	< 0.00038 U	< 0.00039 U	< 0.00019 U	< 0.00031 U	< 0.00029 U	< 0.00035 U	< 0.00051 U	< 0.00025 U	< 0.00034 U	< 0.0012 U
SAE-08	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-08	0	FD	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-09	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-10	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.0009 U
SAE-10	10	N	04/21/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-10	60[a]	N	04/21/08	< 0.00038 U	0.00063 J	< 0.00019 U	< 0.00032 U	< 0.00029 U	< 0.00035 U	< 0.00052 U	< 0.00026 U	< 0.00034 U	< 0.0012 U
SAE-11	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00037 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-12	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-13	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-14	0	N	04/15/08	0.00045 J	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-15	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-15	10	N	04/22/08	< 0.00028 U	< 0.00028 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-15	10	FD	04/22/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-15	55[a]	N	04/22/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.0009 U
SAE-16	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-17	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-18	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-19	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-20	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-21	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-22	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-22	10	N	04/22/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-22	10	FD	04/22/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-22	50[a]	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-23	0	N	04/15/08	< 0.00028 U	< 0.00028 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-24	0	N	04/15/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-25	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-26	0	N	04/15/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-27	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-28	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U

TABLE A-3
SOIL VOLATILE ORGANIC COMPOUNDS (VOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	VOCs									
				tert-Butyl benzene	Tetrachloroethylene	Toluene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropylene	Tribromomethane	Trichloroethylene	Vinyl acetate	Vinyl chloride	Xylenes (total)
SAE-29	0	N	04/16/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-30	0	N	04/16/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00025 U	< 0.00089 U
SAE-31	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-32	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-33	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-34	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-34	10	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-34	35[a]	N	04/23/08	< 0.00032 U	< 0.00033 U	< 0.00016 U	< 0.00027 U	< 0.00024 U	< 0.00029 U	< 0.00043 U	< 0.00021 U	< 0.00028 U	< 0.001 U
SAE-35	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-36	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-37	0	N	04/16/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-38	0	N	04/16/08	< 0.00029 U	< 0.0003 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00026 U	< 0.00039 U	< 0.00019 U	< 0.00026 U	< 0.00093 U
SAE-38	10	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-38	10	FD	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00024 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-38	35[a]	N	04/23/08	< 0.00044 U	0.0012 J	< 0.00022 U	< 0.00037 U	< 0.00034 U	< 0.00041 U	< 0.00059 U	< 0.00029 U	< 0.00039 U	< 0.0014 U
SAE-39	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-40	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00037 U	< 0.00018 U	< 0.00024 U	< 0.00088 U
SAE-41	0	N	04/16/08	< 0.00029 U	< 0.0003 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00027 U	< 0.00039 U	< 0.00019 U	< 0.00026 U	< 0.00094 U
SAE-41	10	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00091 U
SAE-41	20[a]	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00092 U
SAE-42	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-43	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-43	10	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00024 U	< 0.00022 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.00092 U
SAE-43	17[a]	N	04/23/08	< 0.00028 U	< 0.00029 U	< 0.00014 U	< 0.00023 U	< 0.00021 U	< 0.00026 U	< 0.00038 U	< 0.00019 U	< 0.00025 U	< 0.0009 U
SAE-44	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	0.014
SAE-44	0	FD	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00023 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	0.0066 J
SAE-45	0	N	04/16/08	< 0.00027 U	< 0.00028 U	< 0.00013 U	< 0.00022 U	< 0.0002 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U
SAE-46	0	N	04/16/08	< 0.00027 U	< 0.00028 U	0.00083 J	< 0.00022 U	< 0.00021 U	< 0.00025 U	< 0.00036 U	< 0.00018 U	< 0.00024 U	< 0.00087 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				1,2,4,5-Tetrachloro-benzene	1,2-Diphenylhydrazine	1,4-Dioxane	2,2'-/4,4'-Dichlorobenzil	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene
SAE-01	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-07	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.37 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.047 U	< 0.047 U	< 0.45 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.47 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	--	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	0.87	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.048 U	< 0.048 U	< 0.67 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.48 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-14	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	0.33 J	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	--	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	0.18 J	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-15	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.47 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-16	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	0.28 J	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-17	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	0.44	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-18	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.35 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-19	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.36 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.35 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.37 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				1,2,4,5-Tetrachloro-benzene	1,2-Diphenylhydrazine	1,4-Dioxane	2,2'-/4,4'-Dichlorobenzil	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene
SAE-27	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.39 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.39 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.38 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.04 U	< 0.04 U	< 0.49 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.4 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.4 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.34 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.36 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	10	FD	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.055 U	< 0.055 U	< 0.46 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.55 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.39 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.37 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.39 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.36 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.38 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.4 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.39 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.36 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.38 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.41 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.77 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Methylphenol & 4-Methylphenol	3-Nitroaniline	4-Bromophenyl phenyl ether
SAE-01	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-07	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.095 U	< 0.047 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.096 U	< 0.048 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.069 U	< 0.034 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-14	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.069 U	< 0.034 U	< 0.034 U
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-15	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-16	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-17	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-18	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-19	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Methylphenol & 4-Methylphenol	3-Nitroaniline	4-Bromophenyl phenyl ether
SAE-27	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.069 U	< 0.034 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.069 U	< 0.035 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.08 U	< 0.04 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.072 U	< 0.036 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-38	10	FD	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.071 U	< 0.035 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.11 U	< 0.055 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.073 U	< 0.036 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.071 U	< 0.036 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.072 U	< 0.036 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.072 U	< 0.036 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.07 U	< 0.035 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.067 U	< 0.034 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.068 U	< 0.034 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				4-Chloro-3-Methylphenol	4-Chlorophenyl phenyl ether	4-Chlorothioanisole	4-Nitrophenol	Acetophenone	Aniline	Azobenzene	Benzenethiol	Benzoic acid	Benzyl alcohol
SAE-01	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-07	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.047 U	< 0.011 U	< 0.47 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.18 U	< 0.047 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.33 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.048 U	< 0.011 U	< 0.48 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.18 U	< 0.048 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-14	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	0.081 J
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.34 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	0.076 J
SAE-15	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-16	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	0.06 J
SAE-17	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	0.069 J
SAE-18	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	0.078 J
SAE-19	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	0.086 J

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				4-Chloro-3-Methylphenol	4-Chlorophenyl phenyl ether	4-Chlorothioanisole	4-Nitrophenol	Acetophenone	Aniline	Azobenzene	Benzenethiol	Benzoic acid	Benzyl alcohol
SAE-27	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0079 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.0079 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.04 U	< 0.0091 U	< 0.4 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.15 U	< 0.04 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.0082 U	< 0.36 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-38	10	FD	04/23/08	< 0.035 U	< 0.035 U	< 0.0081 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.055 U	< 0.013 U	< 0.55 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.2 U	< 0.055 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.0083 U	< 0.36 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.0081 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.036 U	< 0.0082 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.0082 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.008 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.0078 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.0077 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.13 U	< 0.034 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Benzyl butyl phthalate	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl) ether	bis(2-Ethylhexyl) phthalate	bis(p-Chlorophenyl) disulfide	bis(p-Chlorophenyl) sulfone	Carbazole	Dibenzofuran	Dibutyl phthalate
SAE-01	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.2 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.2 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.2 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-07	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.29 U	< 0.47 U	< 0.047 U	< 0.047 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.044 U	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	0.036 J	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.22 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.29 U	< 0.48 U	< 0.048 U	< 0.048 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-14	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.044 U	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-15	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.22 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-16	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-17	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-18	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-19	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Benzyl butyl phthalate	bis(2-Chloroethoxy) methane	bis(2-Chloroethyl) ether	bis(2-Chloroisopropyl) ether	bis(2-Ethylhexyl) phthalate	bis(p-Chlorophenyl) disulfide	bis(p-Chlorophenyl) sulfone	Carbazole	Dibenzofuran	Dibutyl phthalate
SAE-27	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.22 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.34 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.24 U	< 0.4 U	< 0.04 U	< 0.04 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.22 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.22 U	< 0.36 U	< 0.036 U	< 0.036 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-38	10	FD	04/23/08	0.065 J	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.22 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.34 U	< 0.55 U	< 0.055 U	< 0.055 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.22 U	< 0.36 U	< 0.036 U	< 0.036 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.22 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.22 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.22 U	< 0.35 U	< 0.036 U	< 0.036 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.21 U	< 0.35 U	< 0.035 U	< 0.035 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.21 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	0.15 J	< 0.21 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Diethyl phthalate	Dimethyl phthalate	Di-n-octyl phthalate	Diphenyl sulfone	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclo-pentadiene	Hexachloroethane
SAE-01	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	0.043 J	< 0.33 U	< 0.034 U
SAE-07	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	2	< 0.34 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	0.11 J	< 0.35 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.047 U	< 0.021 U	< 0.0095 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.47 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	0.36	< 0.33 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	0.051 J	< 0.34 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	0.056 J	< 0.34 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.0071 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.048 U	< 0.021 U	< 0.0096 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.48 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	0.1 J	< 0.34 U	< 0.034 U
SAE-14	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0069 U	< 0.034 U	< 0.034 U	< 0.034 U	1.4	< 0.34 U	< 0.034 U
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	0.53	< 0.34 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	0.27 J	< 0.35 U	< 0.035 U
SAE-15	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.0071 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-16	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	0.49	< 0.34 U	< 0.034 U
SAE-17	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	0.91	< 0.34 U	< 0.034 U
SAE-18	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-19	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	0.036 J	< 0.34 U	< 0.035 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Diethyl phthalate	Dimethyl phthalate	Di-n-octyl phthalate	Diphenyl sulfone	Fluoranthene	Fluorene	Hexachloro-1,3-butadiene	Hexachlorobenzene	Hexachlorocyclo-pentadiene	Hexachloroethane
SAE-27	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0069 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.015 U	< 0.0069 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.34 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.04 U	< 0.018 U	< 0.008 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.4 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.0071 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.016 U	< 0.0072 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.36 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	10	FD	04/23/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.0071 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.055 U	< 0.025 U	< 0.011 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.55 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.036 U	< 0.016 U	< 0.0073 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.36 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.016 U	< 0.0071 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.036 U	< 0.016 U	< 0.0071 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.036 U	< 0.016 U	< 0.0072 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.35 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.035 U	< 0.016 U	< 0.007 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.35 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0067 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.33 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.034 U	< 0.015 U	< 0.0068 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.34 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Hydroxymethyl phthalimide	Isophorone	Naphthalene	Nitrobenzene	N-nitrosodi-n-propyl-amine	N-nitrosodiphenylamine	o-Cresol	Octachlorostyrene	p-Chloroaniline	p-Chlorothiophenol
SAE-01	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-02	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-03	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-04	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-05	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-06	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-07	0	N	04/16/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	0.42	< 0.034 U	< 0.19 U
SAE-07	10	N	04/21/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-07	55[a]	N	04/21/08	< 0.062 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.047 U	< 0.17 U	< 0.047 U	< 0.047 U	< 0.26 U
SAE-07R	0	N	08/12/08	< 0.082 UJ	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	0.062 J	< 0.034 U	< 0.33 U
SAE-08	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-08	0	FD	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-09	0	N	04/15/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-10	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-10	10	N	04/21/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-10	60[a]	N	04/21/08	< 0.063 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.048 U	< 0.17 U	< 0.048 U	< 0.048 U	< 0.27 U
SAE-11	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-12	0	N	04/15/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-13	0	N	04/15/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-14	0	N	04/15/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	0.29 J	< 0.034 U	< 0.19 U
SAE-14R	0	N	08/12/08	< 0.083 UJ	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	0.15 J	< 0.034 U	< 0.34 U
SAE-15	0	N	04/15/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	0.073 J	< 0.035 U	< 0.19 U
SAE-15	10	N	04/22/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-15	10	FD	04/22/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-15	55[a]	N	04/22/08	< 0.045 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-16	0	N	04/15/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	0.13 J	< 0.034 U	< 0.19 U
SAE-17	0	N	04/15/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	0.19 J	< 0.034 U	< 0.19 U
SAE-18	0	N	04/15/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-19	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-20	0	N	04/15/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-21	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-22	0	N	04/15/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-22	10	N	04/22/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-22	10	FD	04/22/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-22	50[a]	N	04/23/08	< 0.046 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-23	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-24	0	N	04/15/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-25	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-26	0	N	04/15/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs									
				Hydroxymethyl phthalimide	Isophorone	Naphthalene	Nitrobenzene	N-nitrosodi-n-propyl-amine	N-nitrosodiphenylamine	o-Cresol	Octachlorostyrene	p-Chloroaniline	p-Chlorothiophenol
SAE-27	0	N	04/16/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-28	0	N	04/16/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-29	0	N	04/16/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-30	0	N	04/16/08	< 0.045 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-31	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-32	0	N	04/16/08	< 0.045 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-33	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-34	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-34	10	N	04/23/08	< 0.046 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-34	35[a]	N	04/23/08	< 0.052 UJ	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.04 U	< 0.14 U	< 0.04 U	< 0.04 U	< 0.22 U
SAE-35	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-36	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-37	0	N	04/16/08	< 0.046 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-38	0	N	04/16/08	< 0.047 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U	< 0.2 U
SAE-38	10	N	04/23/08	< 0.046 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-38	10	FD	04/23/08	< 0.046 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.13 U	< 0.035 U	< 0.035 U	< 0.2 U
SAE-38	35[a]	N	04/23/08	< 0.072 UJ	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.055 U	< 0.2 U	< 0.055 U	< 0.055 U	< 0.31 U
SAE-39	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-40	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-41	0	N	04/16/08	< 0.048 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U	< 0.2 U
SAE-41	10	N	04/23/08	< 0.046 UJ	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U	< 0.2 U
SAE-41	20[a]	N	04/23/08	< 0.047 UJ	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U	< 0.2 U
SAE-42	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-43	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-43	10	N	04/23/08	< 0.047 UJ	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.13 U	< 0.036 U	< 0.036 U	< 0.2 U
SAE-43	17[a]	N	04/23/08	< 0.046 UJ	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.12 U	< 0.035 U	< 0.035 U	< 0.19 U
SAE-44	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-44	0	FD	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-45	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U
SAE-46	0	N	04/16/08	< 0.044 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.12 U	< 0.034 U	< 0.034 U	< 0.19 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs							
				Pentachlorobenzene	Pentachlorophenol	Phenol	Phenyl Disulfide	Phenyl Sulfide	Phthalic acid	p-Nitroaniline	Pyridine
SAE-01	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-02	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-03	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-04	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-05	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-06	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-07	0	N	04/16/08	0.1 J	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-07	10	N	04/21/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-07	55[a]	N	04/21/08	< 0.047 U	< 0.47 U	< 0.047 U	< 0.041 U	< 0.005 U	< 0.36 U	< 0.47 U	< 0.047 U
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.034 U	< 0.0036 U	< 0.25 UJ	< 0.33 U	< 0.33 U
SAE-08	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-08	0	FD	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-09	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-10	0	N	04/15/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-10	10	N	04/21/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.035 U
SAE-10	60[a]	N	04/21/08	< 0.048 U	< 0.48 U	< 0.048 U	< 0.041 U	< 0.0051 U	< 0.36 U	< 0.48 U	< 0.048 U
SAE-11	0	N	04/15/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-12	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.03 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-13	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-14	0	N	04/15/08	0.1 J	< 0.34 U	< 0.034 U	< 0.03 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.034 U	< 0.0036 U	< 0.25 UJ	< 0.34 U	< 0.34 U
SAE-15	0	N	04/15/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-15	10	N	04/22/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-15	10	FD	04/22/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.035 U
SAE-15	55[a]	N	04/22/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-16	0	N	04/15/08	0.047 J	< 0.34 U	< 0.034 U	< 0.03 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-17	0	N	04/15/08	0.084 J	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-18	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-19	0	N	04/15/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-20	0	N	04/15/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-21	0	N	04/15/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-22	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-22	10	N	04/22/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-22	10	FD	04/22/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-22	50[a]	N	04/23/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-23	0	N	04/15/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-24	0	N	04/15/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-25	0	N	04/15/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-26	0	N	04/15/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U

TABLE A-4
SOIL SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	SVOCs							
				Pentachlorobenzene	Pentachlorophenol	Phenol	Phenyl Disulfide	Phenyl Sulfide	Phthalic acid	p-Nitroaniline	Pyridine
SAE-27	0	N	04/16/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-28	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.03 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-29	0	N	04/16/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-30	0	N	04/16/08	< 0.035 U	< 0.34 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.34 U	< 0.035 U
SAE-31	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-32	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.03 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-33	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-34	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-34	10	N	04/23/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-34	35[a]	N	04/23/08	< 0.04 U	< 0.4 U	< 0.04 U	< 0.035 U	< 0.0042 U	< 0.3 U	< 0.4 U	< 0.04 U
SAE-35	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-36	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-37	0	N	04/16/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.27 U	< 0.35 U	< 0.035 U
SAE-38	0	N	04/16/08	< 0.036 U	< 0.36 U	< 0.036 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.36 U	< 0.036 U
SAE-38	10	N	04/23/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-38	10	FD	04/23/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.035 U
SAE-38	35[a]	N	04/23/08	< 0.055 U	< 0.55 U	< 0.055 U	< 0.048 U	< 0.0059 U	< 0.41 U	< 0.55 U	< 0.055 U
SAE-39	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-40	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.26 U	< 0.34 U	< 0.034 U
SAE-41	0	N	04/16/08	< 0.036 U	< 0.36 U	< 0.036 U	< 0.031 U	< 0.0039 U	< 0.27 U	< 0.36 U	< 0.036 U
SAE-41	10	N	04/23/08	< 0.036 U	< 0.35 U	< 0.036 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.036 U
SAE-41	20[a]	N	04/23/08	< 0.036 U	< 0.35 U	< 0.036 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.036 U
SAE-42	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-43	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-43	10	N	04/23/08	< 0.036 U	< 0.35 U	< 0.036 U	< 0.031 U	< 0.0038 U	< 0.27 U	< 0.35 U	< 0.036 U
SAE-43	17[a]	N	04/23/08	< 0.035 U	< 0.35 U	< 0.035 U	< 0.03 U	< 0.0037 U	< 0.26 U	< 0.35 U	< 0.035 U
SAE-44	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-44	0	FD	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U
SAE-45	0	N	04/16/08	< 0.034 U	< 0.33 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.33 U	< 0.034 U
SAE-46	0	N	04/16/08	< 0.034 U	< 0.34 U	< 0.034 U	< 0.029 U	< 0.0036 U	< 0.25 U	< 0.34 U	< 0.034 U

All units in mg/kg.
-- = no sample data.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-5
SOIL DIOXINS/FURANS DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Dioxins/Furans																	
				1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-HpCDD	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDF	1,2,3,7,8,9-HxCDD	1,2,3,7,8-PeCDF	1,2,3,7,8-PeCDD	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	2,3,7,8-TCDD	OCDD	OCDF	TCDD TEQ
SAE-01	0	N	04/16/08	43 J	10 J	19 J	26 J	< 1.8 UJ	15 J	< 2.4 UJ	< 2.4 UJ	< 2.1 UJ	13 J	< 2.1 UJ	4.5 J	7.5 J	8.5	< 0.82 UJ	17 J	190 J	12.9
SAE-02	0	N	04/16/08	140	18	46	52	< 2.1 U	38	5.5	4.6 J	3.9 J	27	< 2.3 U	8.3	14	14	0.7 J	31	470	25.8
SAE-03	0	N	04/16/08	400	36	140	150	5.4	110	11	18	11	79	7.4	26	43	37	2	45	1300	78.4
SAE-04	0	N	04/16/08	450	43	160	150	6.2	120	13	19	11	85	7.8	29	46	42	2.5	60	1400	84.3
SAE-05	0	N	04/16/08	300	30	110	110	4.3 J	82	8.9	15	8.4	67	6.6	21	43	64	2.5	46	900	72.3
SAE-06	0	N	04/16/08	1200	120	430	450	16	350	34	57	33	280	27	84	150	200	8	150	3600	268
SAE-07	0	N	04/16/08	18000	1800	7100	8800	230	5000	430	830	440	3500	320	1100	1900	1800 J	80	2200	51000	3704
SAE-07	10	N	04/21/08	2.6	< 0.35 U	< 1.1 U	< 1.2 U	< 0.092 U	< 0.65 U	< 0.15 U	< 0.17 U	< 0.17 U	< 0.46 U	< 0.052 U	< 0.17 U	< 0.26 U	< 0.42 U	< 0.054 U	< 1.2 U	7.6	0.43
SAE-07	55[a]	N	04/21/08	< 0.16 U	< 0.12 U	< 0.075 U	< 0.1 U	< 0.054 U	< 0.09 U	< 0.18 U	< 0.14 U	< 0.18 U	< 0.093 U	< 0.057 U	< 0.07 U	< 0.068 U	< 0.12 U	< 0.058 U	< 0.74 U	< 0.21 U	0.28
SAE-07R	0	N	08/12/08	1500 J	150 J	640	620	24	380	46	97	40	330	31	100	180	210	8	< U	4600 J	321
SAE-08	0	N	04/16/08	620	59	230	190	8.8	170	19	28	17	120	12	40	67	58	2.9	72	1900	118
SAE-08	0	FD	04/16/08	620	59	250	200	9.9	180	21	30	19	140	13	41	73	64	3.7	69	1700	129
SAE-09	0	N	04/15/08	2700 J	280	1300	1600	40	940	97	180	77	970	78	270	490	600 J	24	310	8000 J	846
SAE-10	0	N	04/15/08	700	76	330	430	11	240	24	43	22	240	19	66	120	160	5.6	93 J	2500 J	216
SAE-10	10	N	04/21/08	< 0.31 U	< 0.15 U	< 0.11 U	< 0.099 U	< 0.052 U	< 0.11 U	< 0.11 U	< 0.093 U	< 0.12 U	< 0.065 U	< 0.052 U	< 0.11 U	< 0.065 U	< 0.18 U	< 0.044 U	< 0.67 U	< 0.93 U	0.23
SAE-10	60[a]	N	04/21/08	< 0.12 U	< 0.23 U	< 0.12 U	< 0.098 U	< 0.089 U	< 0.099 U	< 0.17 U	< 0.23 U	< 0.19 U	< 0.12 U	< 0.089 U	< 0.079 U	< 0.075 U	< 0.11 U	< 0.043 U	< 2.1 U	< 0.23 U	0.31
SAE-11	0	N	04/15/08	580	64	240	290	7.6	160	18	27	16	130	11	44	73	85	2.9	87	2200 J	135
SAE-12	0	N	04/15/08	280	32	120	140	3.7	77	8.4	14	7.4	64	5	19	32	45	1.5	62	1500	63.4
SAE-13	0	N	04/15/08	330	25	150	260	4.1	150	11	38	12	510	26	57	370	1200 J	41	22	750	462
SAE-14	0	N	04/15/08	< 0.25 U	< 0.12 U	< 0.29 U	< 0.18 U	< 0.077 U	< 0.1 U	< 0.12 U	< 0.21 U	< 0.088 U	< 0.12 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.2 U	< 0.036 U	< 0.45 U	< 0.46 U	0.28
SAE-15	0	N	04/15/08	< 2.4 U	< 0.34 U	< 0.38 U	< 1.3 U	< 0.18 U	< 0.83 U	< 0.18 U	< 0.18 U	< 0.16 U	< 0.66 U	< 0.16 U	< 0.18 U	< 0.35 U	0.83	< 0.058 U	< 0.6 U	7.8	0.58
SAE-15	10	N	04/22/08	< 0.35 U	< 0.39 U	< 0.14 U	< 0.2 U	< 0.17 U	< 0.1 U	< 0.22 U	< 0.14 U	< 0.2 U	< 0.14 U	< 0.26 U	< 0.1 U	< 0.14 U	< 0.095 U	< 0.12 U	< 2.2 U	< 0.5 U	0.41
SAE-15	10	FD	04/22/08	< 0.19 U	< 0.24 U	< 0.16 U	< 0.097 U	< 0.16 U	< 0.11 U	< 0.16 U	< 0.1 U	< 0.17 U	< 0.15 U	< 0.24 U	< 0.096 U	< 0.15 U	< 0.096 U	< 0.12 U	< 2.1 U	< 0.29 U	0.39
SAE-15	55[a]	N	04/22/08	< 0.21 U	< 0.21 U	< 0.13 U	< 0.1 U	< 0.15 U	< 0.097 U	< 0.18 U	< 0.13 U	< 0.37 U	< 0.13 U	< 0.24 U	< 0.1 U	< 0.13 U	< 0.1 U	< 0.1 U	< 1.8 U	< 0.32 U	0.39
SAE-16	0	N	04/15/08	6700 J	690	3300 J	3700 J	96	2000	230	390	190	1900	170	470	1000	1100 J	45	820	33000	1760
SAE-16R	0	N	08/12/08	4600 J	510 J	2500 J	2400 J	110 J	1400 J	180 J	380 J	170 J	1600	150 J	410 J	810	1100 J	45	510 J	24000 J	1374
SAE-16R-2	0	N	10/09/08	1400	150	730	900	24	500 J	49	77	53	530 J	42	160	270	230	14	140	9600	441
SAE-16R-2	0	FD	10/09/08	1700	180	830	960	29	550 J	53	81	55	560 J	45	190	310	230	14	190	12000	485
SAE-17	0	N	04/15/08	4200 J	450	1700	2200 J	62	1200	130	180	120	1000	94	300	510	620 J	23	780	27000	984
SAE-18	0	N	04/15/08	< 0.78 U	< 0.22 U	< 0.3 U	< 0.27 U	< 0.097 U	< 0.2 U	< 0.1 U	< 0.12 U	< 0.058 U	< 0.18 U	< 0.13 U	< 0.11 U	< 0.17 U	< 0.16 U	< 0.037 U	< 1.3 U	< 1.9 U	0.31
SAE-19	0	N	04/15/08	2100	200	810	1000	25	620	60	96	54	470	39	130	240	230	8.9	200	5200 J	448
SAE-20	0	N	04/15/08	290	28	120	160	3.7	90	8.6	14	7.5	79	6.9	23	42	76	2.3	29	1000	77.9
SAE-21	0	N	04/15/08	650	66	240	320	8.8	180	19	25	17	150	13	48	80	100	3.9	77	2500	148
SAE-22	0	N	04/15/08	980	88	370	510	12	280	36	44	31	350	33	72	180	320	10	88	3300	296
SAE-22	10	N	04/22/08	< 0.29 U	< 0.39 U	< 0.14 U	< 0.11 U	< 0.15 U	< 0.13 U	< 2.5 U	< 0.18 U	7.2 J	< 0.13 U	< 0.26 U	< 0.11 U	< 0.13 U	< 0.095 U	< 0.12 U	< 2 U	< 0.32 U	1.2
SAE-22	10	FD	04/22/08	< 0.55 U	< 0.46 U	< 0.68 U	< 0.25 U	< 0.42 U	< 0.22 U	< 0.36 U	< 0.3 U	< 0.38 UJ	< 0.34 U	< 0.59 U	< 0.26 U	< 0.36 U	< 0.23 U	< 0.32 U	< 1.9 U	< 0.78 U	0.8
SAE-22	50[a]	N	04/23/08	< 0.69 U	< 0.77 U	< 0.81 U	< 0.58 U	< 0.81 U	< 0.55 U	< 0.77 U	< 0.6 U	< 0.74 U	< 0.63 U	< 0.96 U	< 0.56 U	< 0.63 U	< 0.38 U	< 0.66 U	< 1 U	< 1.1 U	1.4
SAE-23	0	N	04/15/08	3300 J	280	1200	1600	35	920	88	140	81	810	59	220	390	770 J	16	390	15000	752
SAE-24	0	N	04/15/08	< 0.14 U	< 0.1 U	< 0.055 U	< 0.09 U	< 0.53 U	< 0.06 U	< 0.55 U	< 0.073 U	< 1.2 U	< 0.079 U	< 0.066 U	< 0.049 U	< 0.075 U	< 0.074 U	< 0.025 U	< 0.36 U	< 0.5 U	0.31

TABLE A-5
SOIL DIOXINS/FURANS DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Dioxins/Furans																	
				1,2,3,4,6,7,8-HpCDF	1,2,3,4,6,7,8-HpCDD	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDF	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDF	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDF	1,2,3,7,8,9-HxCDD	1,2,3,7,8-PeCDF	1,2,3,7,8-PeCDD	2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDF	2,3,7,8-TCDD	OCDD	OCDF	TCDD TEQ
SAE-25	0	N	04/15/08	< 1.8 U	< 0.29 U	< 0.6 U	< 0.82 U	< 0.14 U	< 0.45 U	< 0.15 U	< 0.15 U	< 0.14 U	< 0.38 U	< 0.099 U	< 0.15 U	< 0.2 U	0.72	< 0.036 U	< 0.56 U	< 5 U	0.43
SAE-26	0	N	04/15/08	430	33	150	200	4	110	9.5	17	8.6	98	7.1	28	49	83	2.3	39	1800	91.4
SAE-27	0	N	04/16/08	230	18	98	81	3.5 J	73	7.4	15	6.7	68	5.4	16	39	66	2.2	19	1100	61.6
SAE-28	0	N	04/16/08	310 J	25	130 J	110	4.8 J	100	9.9	19	8.9	96	8.1	23	57	110	3	23	1700	88.8
SAE-29	0	N	04/16/08	180	15	80	59	< 2.5 U	54	5.4	10	4.7 J	53	4.7 J	13	31	53	1.7	13	1100	47.9
SAE-30	0	N	04/16/08	1100	120	570	450	23	410	45	93	45	380	35	100	220	270	12	130	4000	352
SAE-31	0	N	04/16/08	170	13	67	64	< 1.9 U	50	4.8 J	9.4	4.5 J	45	3.9 J	11	25	42	1.6	16	840	41.9
SAE-32	0	N	04/16/08	130	9.3	48	55	< 1.1 U	32	< 2.2 U	6.1	< 2.3 U	25	< 1.6 U	8.6	14	27	0.69 J	13	620	25.5
SAE-33	0	N	04/16/08	73	5.6	26	26	< 0.83 U	21	< 1.8 U	3.4 J	< 1.9 U	16	< 1.5 U	4.7 J	8.4	18	< 0.48 U	8.1 J	270	14.9
SAE-34	0	N	04/16/08	1200	97	430	390	14	330	29	52	29	290	22	77	150	290	7.8	120	8700 J	261
SAE-34	10	N	04/23/08	< 0.53 U	< 0.5 U	< 0.57 U	< 0.37 U	< 0.64 U	< 0.35 U	< 0.6 U	< 0.39 U	< 0.58 U	< 0.41 U	< 0.65 U	< 0.36 U	< 0.41 U	< 0.24 U	< 0.37 U	< 0.65 U	< 1.9 U	0.93
SAE-34	35[a]	N	04/23/08	< 0.53 U	< 0.65 U	< 0.63 U	< 0.57 U	< 0.66 U	< 0.54 U	< 0.63 U	< 0.6 U	< 0.6 U	< 0.65 U	< 0.88 U	< 0.55 U	< 0.65 U	< 0.34 U	< 0.6 U	< 1 U	< 0.77 U	1.3
SAE-35	0	N	04/16/08	35	3.1 J	12	10	< 0.45 U	10	< 0.97 U	< 1.5 U	< 0.88 U	7.3	< 0.89 U	< 2.4 U	3.3 J	3.9	< 0.47 U	< 4.6 U	120	6
SAE-36	0	N	04/16/08	< 1.5 U	< 0.54 U	< 0.57 U	< 0.74 U	< 0.65 U	< 0.49 U	< 0.61 U	< 0.55 U	< 0.59 U	< 0.61 U	< 0.86 U	< 0.5 U	< 0.61 U	< 0.2 U	< 0.59 U	< 0.65 U	< 4.8 U	1.2
SAE-37	0	N	04/16/08	56	4.7 J	19	25	< 0.56 U	13	< 1.3 U	< 1.9 U	< 1.1 U	10	< 0.84 U	3.4 J	5.8	4	< 0.17 U	5.6 J	140	9.6
SAE-38	0	N	04/16/08	420 J	36 J	150 J	180 J	4.3 J	95 J	8.8 J	13 J	9.9 J	83 J	7.9 J	30 J	45 J	41 J	2.6 J	60 J	1900 J	82.9
SAE-38	10	N	04/23/08	< 0.76 U	< 0.76 U	< 0.9 U	< 0.6 U	< 0.82 U	< 0.57 U	< 0.77 U	< 0.64 U	< 0.74 U	< 0.75 U	< 1.1 U	< 0.58 U	< 0.75 U	< 0.42 U	< 0.74 U	< 0.99 U	< 3.4 U	1.5
SAE-38	10	FD	04/23/08	< 0.52 U	< 0.63 U	< 0.62 U	< 0.55 U	< 0.68 U	< 0.52 U	< 0.64 U	< 0.57 U	< 0.62 U	< 0.62 U	< 0.85 U	< 0.53 U	< 0.62 U	< 0.34 U	< 0.57 U	< 0.87 U	< 2 U	1.2
SAE-38	35[a]	N	04/23/08	< 0.58 U	< 0.85 U	< 0.68 U	< 0.61 U	< 0.91 U	< 0.58 U	< 0.86 U	< 0.65 U	< 0.83 U	< 0.73 U	< 1.2 U	< 0.6 U	< 0.73 U	< 0.45 U	< 0.76 U	< 1.2 U	< 0.93 U	1.7
SAE-39	0	N	04/16/08	370	29	140	170	3.3 J	87	7.3	12	7.6	85	6.6	27	43	48 J	1.8 J	47	2600	77.3
SAE-40	0	N	04/16/08	9.6	< 0.52 U	6.9	5.2	< 0.3 U	< 2 U	< 0.22 U	< 1.6 U	< 0.23 U	5.3	< 0.35 U	< 1.3 U	2.7 J	37	< 0.15 U	< 0.85 UJ	150 J	6.7
SAE-41	0	N	04/16/08	37	< 1.5 U	15	11	< 0.21 U	4.4 J	< 0.41 U	< 0.91 U	< 0.3 U	6.1	< 0.49 U	< 2.3 U	< 2.6 U	7.1	< 0.18 U	< 5.1 U	760	4.5
SAE-41	10	N	04/23/08	< 0.34 U	< 0.36 U	< 0.41 U	< 0.28 U	< 0.45 U	< 0.27 U	< 0.43 U	< 0.3 U	< 0.42 U	< 0.36 U	< 0.49 U	< 0.28 U	< 0.36 U	< 0.21 U	< 0.35 U	< 0.52 UJ	< 0.46 UJ	0.77
SAE-41	20[a]	N	04/23/08	< 0.5 U	< 0.66 U	< 0.6 U	< 0.59 U	< 0.58 U	< 0.56 U	< 0.55 U	< 0.62 U	< 0.53 U	< 0.57 U	< 0.81 U	< 0.57 U	< 0.57 U	< 0.26 U	< 0.58 U	< 0.92 U	< 0.93 U	1.2
SAE-42	0	N	04/16/08	150 J	4 J	57 J	33 J	< 0.41 UJ	14 J	< 1.7 UJ	3.9 J	< 0.98 UJ	21 J	< 1.9 UJ	4.7 J	8 J	45 J	0.83 J	7.7 J	3500 J	19.6
SAE-43	0	N	04/16/08	16	< 1.1 U	4.4 J	5.6	< 0.21 U	2.8 J	< 0.52 U	< 1.4 U	< 0.36 U	2.9 J	< 0.4 U	< 1.8 U	< 1.5 U	2.1	< 0.19 U	< 2.3 U	100	2.4
SAE-43	10	N	04/23/08	< 0.32 U	< 0.32 U	< 0.38 U	< 0.28 U	< 0.37 U	< 0.26 U	< 0.34 U	< 0.29 U	< 0.33 U	< 0.32 U	< 0.53 U	< 0.27 U	< 0.32 U	< 0.18 U	< 0.33 U	< 0.51 U	< 0.38 U	0.76
SAE-43	17[a]	N	04/23/08	< 0.39 U	< 0.59 U	< 0.46 U	< 0.48 U	< 0.73 U	< 0.46 U	< 0.69 U	< 0.52 U	< 0.66 U	< 0.57 U	< 0.93 U	< 0.47 U	< 0.57 U	< 0.34 U	< 0.59 U	< 0.7 U	< 0.59 U	1.3
SAE-44	0	N	04/16/08	160	25 J	51 J	71 J	< 2.1 U	37 J	3.7 J	4.4 J	3.7 J	34 J	3.1 J	11 J	18 J	23	0.67 J	83 J	1000 J	34.9
SAE-44	0	FD	04/16/08	64	8.9 J	26 J	32 J	< 0.79 U	17 J	< 2 U	2.7 J	< 1.7 U	19 J	< 1.7 U	4.5 J	11 J	14	0.58 J	22 J	330 J	17.4
SAE-45	0	N	04/16/08	48	8.2	19	23	< 0.26 U	12	< 1.7 U	< 1.8 U	< 1.3 U	12	< 1.4 U	3.2 J	6.4	9.8	< 0.5 U	28	230	10.9
SAE-46	0	N	04/16/08	18	11	5.7	6.6	< 0.43 U	3.3 J	< 1 U	< 0.32 U	< 0.97 U	3.2 J	< 0.63 U	< 2.4 U	< 1.7 U	2.1	< 0.21 U	82	77	3

All units in pg/g.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-6
SOIL GENERAL CHEMISTRY/IONS AND ALDEHYDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

				General Chemistry / Ions															Aldehydes		
Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Ammonia	Bromide	Chlorate	Chloride	Chlorite	Cyanide (Total)	Fluoride	Nitrate (as N)	Nitrite (as N)	Orthophosphate as P	Perchlorate	pH (Hydrogen Ion)	Sulfate	Sulfide	Total Kjeldahl Nitrogen (TKN)	Acetaldehyde	Chloroacetaldehyde	Formaldehyde
SAE-01	0	N	04/16/08	< 0.5 U	< 0.063 U	< 1 U	19	99	< 0.08 UJ	0.94 J	2.1	0.077 J	< 1.6 U	0.448 J	8.9	68.1	< 1.8 U	113 J+	0.077 J	< 0.61 U	0.87
SAE-02	0	N	04/16/08	< 0.5 U	< 0.063 U	< 1 U	3	99	< 0.08 UJ	0.63 J	1.7	0.1 J	< 1.6 U	0.0405	8.8	26.1	< 1.8 U	115 J+	< 0.3 U	< 0.6 U	0.38 J
SAE-03	0	N	04/16/08	< 0.5 U	< 0.063 U	< 1 U	19.3	99	< 0.08 UJ	1.4	3.1	< 0.05 U	< 1.6 U	0.0804	8.8	105	30.3	116 J+	0.051 J	< 0.6 U	0.38 J
SAE-04	0	N	04/16/08	< 0.51 U	< 0.064 U	< 1 U	60.4	98	< 0.081 U	1.2	5.3	< 0.51 U	< 1.7 U	0.157	8.8	202	194	83.2 J+	0.049 J	< 0.61 U	0.56 J
SAE-05	0	N	04/16/08	1.7 J	< 0.064 U	< 1 U	38.2	98	< 0.081 U	5.3	9.3	< 0.051 U	8.8	0.135	8	194	184	76.5 J+	< 0.3 U	< 0.61 U	0.36 J
SAE-06	0	N	04/16/08	0.58 J	< 0.063 U	< 1 U	72.1	98	0.17 J-	8.5	66.6	< 0.51 U	11.5	0.129	7.5	349	< 1.8 U	77.4 J+	0.065 J	< 0.61 U	0.57 J
SAE-07	0	N	04/16/08	0.79 J	< 0.064 U	< 1 U	206	97	< 0.081 U	8.4	36.5	< 0.51 U	9.9	0.605 J	8.4	1940	< 1.9 U	167 J+	0.075 J	< 0.62 U	0.52 J
SAE-07	10	N	04/21/08	1.2 J	< 0.26 U	< 0.55 U	36.3	89	< 0.083 U	2.9	30.5	< 0.021 U	1.5 J	< 0.0019 U	9.1	59.3	< 1.9 U	62.3 J+	0.052 J	< 0.67 U	< 0.67 U
SAE-07	55[a]	N	04/21/08	< 1.1 U	< 0.36 U	5.8 J	374	73	< 0.11 U	5.4	11.4	< 0.28 U	< 0.71 U	2.89	8	616	< 2.5 U	83.1 J+	0.068 J	< 0.82 U	< 0.82 U
SAE-08	0	N	04/16/08	< 0.51 U	1.3 J	7.3	507	97	< 0.081 U	1.5	44.1	< 2.6 U	2 J	6.53 J	8.1	5450	< 1.9 U	84.1 J+	0.16 J	< 0.61 U	0.57 J
SAE-08	0	FD	04/16/08	< 0.51 U	< 0.064 U	6.2	498	98	< 0.081 U	1.5	39.6	< 0.51 U	< 1.7 U	6.08 J	8.1	5160	< 1.9 U	70.1 J+	0.17 J	< 0.62 U	0.76
SAE-09	0	N	04/15/08	0.75 J	< 0.064 U	< 1 U	1970	95	< 0.081 U	3.7	65.4	< 5.1 U	< 1.7 U	2.12	8.1	15500	< 1.9 U	86 J-	< 0.3 U	< 0.6 U	< 0.6 U
SAE-10	0	N	04/15/08	0.54 J	< 0.065 U	< 1 U	434	95	< 0.083 U	3.6	18.3	< 0.52 U	< 1.7 U	0.417	8.1	8120	73.1	197 J-	< 0.37 U	< 0.74 U	< 0.74 U
SAE-10	10	N	04/21/08	< 0.83 U	< 0.27 U	< 0.56 U	15.5	94	< 0.084 U	3.6	3.2	< 0.021 U	< 0.53 U	0.0305	9.4	64.6	< 1.9 U	70 J+	0.052 J	< 0.64 U	< 0.64 U
SAE-10	60[a]	N	04/21/08	< 1.1 U	< 0.36 U	2.9 J	551	50	< 0.11 U	4.6	58.6	< 0.29 U	< 0.72 U	2.89	8	813	< 2.6 U	95.2 J+	< 0.6 U	< 1.2 U	< 1.2 U
SAE-11	0	N	04/15/08	0.7 J	< 0.065 U	< 1 U	208	97	< 0.083 U	2.9	43.4	< 0.52 U	< 1.7 U	0.6	8.2	1070	< 1.9 U	< 12.5 UJ	< 0.33 U	< 0.67 U	< 0.67 U
SAE-12	0	N	04/15/08	< 0.51 U	< 0.064 U	< 1 U	62.1	98	< 0.081 U	2.1	10.1	< 0.51 U	2.4 J	0.112	8.3	538	< 1.9 U	< 12.4 UJ	0.064 J	< 0.73 U	< 0.73 U
SAE-13	0	N	04/15/08	< 0.51 U	< 0.064 U	< 1 U	26.8	98	0.11 J	4.8	8	< 0.051 U	8.6	0.0648	8.7	67.7	< 1.8 U	< 12.2 UJ	< 0.34 U	< 0.68 U	< 0.68 U
SAE-14	0	N	04/15/08	0.98 J	< 0.064 U	< 1 U	577	95	0.14 J	5.5	63.1	< 10.3 U	3.9 J	3.82 J+	8.2	2300	< 1.9 U	364	< 0.35 U	< 0.7 U	< 0.7 U
SAE-15	0	N	04/15/08	< 0.53 U	< 0.066 U	< 1.1 U	224	95	< 0.083 U	4.6	27.7	< 0.53 U	3.1 J	1.11	8.4	1370	73.6	189	< 0.36 U	< 0.73 U	< 0.73 U
SAE-15	10	N	04/22/08	< 0.81 U	< 0.26 U	< 0.55 U	7.4	95	< 0.082 U	2.8	2.1	< 0.021 U	< 0.52 U	0.0064 J	9.3	55.6	< 1.8 U	< 12.5 UJ	0.056 J	< 0.63 U	< 0.63 U
SAE-15	10	FD	04/22/08	< 0.83 U	< 0.27 U	< 0.56 U	7.1	94	< 0.084 U	2.4	1.8	< 0.021 U	< 0.53 U	< 0.002 U	9	58.1	< 1.9 U	< 12.7 UJ	0.046 J	< 0.63 U	< 0.63 U
SAE-15	55[a]	N	04/22/08	< 0.81 U	< 0.26 U	< 0.55 U	7.7	71	< 0.083 U	2.2	2.4	< 0.021 U	< 0.52 U	< 0.0019 U	9.1	64.4	< 1.8 U	< 12.5 UJ	0.075 J	< 0.85 U	< 0.85 U
SAE-16	0	N	04/15/08	0.66 J	< 0.064 U	< 1 U	194	97	0.11 J	2.8	14.3	< 0.51 U	2.8 J	0.568	8.5	1190	< 1.9 U	80.3	< 0.41 U	< 0.82 U	< 0.82 U
SAE-17	0	N	04/15/08	0.66 J	< 0.064 U	< 1 U	430	98	< 0.081 U	3.1	39	< 0.51 U	2.2 J	1.4	8.2	1120	< 1.9 U	215	< 0.35 U	< 0.7 U	< 0.7 U
SAE-18	0	N	04/15/08	< 0.51 U	< 0.064 U	< 1 U	50.5	95	0.12 J	0.68 J	10.1	< 0.051 U	< 1.6 U	0.0885	8.8	147	< 1.8 U	97.4	< 0.42 U	< 0.84 U	< 0.84 U
SAE-19	0	N	04/15/08	< 0.52 U	< 0.065 U	< 1 U	15.5	98	0.28 J	1.1	1.6	< 0.052 U	< 1.7 U	0.202	8.9	88.9	< 1.9 U	126	< 0.33 U	< 0.66 U	< 0.66 U
SAE-20	0	N	04/15/08	< 0.53 U	0.58 J	7.4	554	96	< 0.083 U	3	35.5	< 10.5 U	< 1.7 U	13.8	8.2	251	105	< 12.6 UJ	0.053 J	< 0.62 U	0.36 J
SAE-21	0	N	04/15/08	< 0.52 U	< 0.066 U	2.8 J	3820	96	< 0.083 U	1.8	184	< 10.5 U	< 1.7 U	0.134	8.1	822	< 1.9 U	< 12.6 UJ	0.057 J	< 0.68 U	< 0.68 U
SAE-22	0	N	04/15/08	0.89 J	< 0.064 U	4.6 J	1640	97	0.084 J	1.2	123	< 10.3 U	< 1.7 U	0.183	8.1	782	92.3	< 12.3 UJ	0.05 J	< 0.6 U	< 0.6 U
SAE-22	10	N	04/22/08	< 0.83 U	< 0.26 U	12.9	1920	92	< 0.084 U	1.1	115	< 4.2 U	< 0.53 U	0.0571	8	122 J	< 1.9 U	< 12.7 UJ	0.057 J	< 0.64 U	< 0.64 U
SAE-22	10	FD	04/22/08	< 0.82 U	< 0.26 U	12.3	2370	94	< 0.083 U	0.62 J	76.5	< 4.2 U	< 0.53 U	0.0519	7.4	56.1 J	< 1.9 U	< 12.7 UJ	< 0.33 U	< 0.65 U	< 0.65 U
SAE-22	50[a]	N	04/23/08	6.4	< 0.26 U	< 0.56 U	106	95	0.24 J	1.4	3.8	< 0.21 U	< 0.53 U	0.0217	8.6	129	< 1.9 U	< 12.7 U	< 0.38 U	< 0.13 U	< 0.76 U
SAE-23	0	N	04/15/08	< 0.52 U	< 0.065 U	3.7 J	965	96	0.12 J	0.95 J	121	< 10.4 U	< 1.7 U	0.142	8.1	1050	< 1.9 U	171	< 0.3 U	< 0.6 U	< 0.6 U
SAE-24	0	N	04/15/08	< 0.51 U	< 0.064 U	2.7 J	436	95	0.13 J	2	140	< 0.51 U	< 1.6 U	0.0613	8.1	736	< 1.8 U	90.2	0.054 J	< 0.65 U	< 0.65 U
SAE-25	0	N	04/15/08	< 0.52 U	< 0.065 U	6	1690	89	0.14 J	1.2	74.8	< 10.4 U	< 1.7 U	0.0965	8.1	586	< 1.9 U	106	< 0.3 U	< 0.6 U	< 0.6 U
SAE-26	0	N	04/15/08	< 0.52 U	2.2 J	2 J	671	94	0.18 J	1.2	59.8	< 10.4 U	< 1.7 U	0.227	8.2	547	< 1.9 U	129	< 0.3 U	< 0.6 U	< 0.6 U
SAE-27	0	N	04/16/08	0.89 J	< 0.065 U	5.7	1500	95	< 0.082 U	0.91 J	99.4	< 2.6 U	< 1.7 U	0.226	8	517	41.5	44.1 J+	0.15 J	< 0.63 U	0.66
SAE-28	0	N	04/16/08	0.94 J	< 0.064 U	4.7 J	889	97	< 0.082 U	1.8	117	< 2.6 U	< 1.7 U	0.0886	8.2	640	< 1.9 U	26 J+	0.17 J	< 0.62 U	0.89

TABLE A-6
SOIL GENERAL CHEMISTRY/IONS AND ALDEHYDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

				General Chemistry / Ions															Aldehydes		
Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Ammonia	Bromide	Chlorate	Chloride	Chlorite	Cyanide (Total)	Fluoride	Nitrate (as N)	Nitrite (as N)	Orthophosphate as P	Perchlorate	pH (Hydrogen Ion)	Sulfate	Sulfide	Total Kjeldahl Nitrogen (TKN)	Acetaldehyde	Chloroacetaldehyde	Formaldehyde
SAE-29	0	N	04/16/08	1.2 J	< 0.066 U	10.7	1340	85	< 0.084 U	1.9	441	< 2.6 U	< 1.7 U	0.065	8.2	1210	< 1.9 U	58.5 J+	0.1 J	< 0.71 U	< 0.71 U
SAE-30	0	N	04/16/08	0.83 J	< 0.065 U	2.5 J	505	84	< 0.082 U	1	108	< 0.52 U	< 1.7 U	0.326	8.2	1640	< 1.9 U	205 J+	0.064 J	< 0.71 U	0.47 J
SAE-31	0	N	04/16/08	0.83 J	< 0.063 U	2.4 J	379	98	< 0.08 U	1	58.8	< 0.51 U	< 1.6 U	0.0523	8.4	380	< 1.8 U	113 J+	< 0.31 U	< 0.61 U	0.35 J
SAE-32	0	N	04/16/08	0.81 J	< 0.064 U	7	1400	86	< 0.081 U	1.1	95	< 2.6 U	< 1.7 U	0.0421	7.9	545	< 1.9 U	47.7 J+	< 0.35 U	< 0.7 U	< 0.7 U
SAE-33	0	N	04/16/08	2.1 J	< 0.064 U	1.3 J	356	98	< 0.081 U	1.9	74	< 0.51 U	< 1.7 U	0.0459	8.3	797	< 1.9 U	95.8 J+	< 0.31 U	< 0.61 U	0.97
SAE-34	0	N	04/16/08	0.66 J	< 0.064 U	8.3	1160	98	< 0.08 U	1.2	132	< 2.5 U	< 1.6 U	0.0741	8.1	510	< 1.8 U	51.9 J+	0.17 J	< 0.61 U	0.61 J
SAE-34	10	N	04/23/08	< 0.83 U	< 0.26 U	14.3	2930	95	< 0.084 U	0.55 J	92.8	< 4.2 U	< 0.53 U	0.226	8	46.1	< 1.9 U	< 12.7 U	< 0.38 U	< 0.13 U	< 0.76 U
SAE-34	35[a]	N	04/23/08	< 0.94 U	< 0.3 U	< 0.63 U	599	68	< 0.095 U	4	14.4	< 4.8 U	< 0.6 U	0.237	7.8	18600	< 2.1 U	88.9	< 0.53 U	< 0.18 U	< 1.1 U
SAE-35	0	N	04/16/08	0.51 J	< 0.064 U	< 1 U	116	98	< 0.081 U	0.92 J	10.8	< 0.51 U	< 1.6 U	0.204	8.6	120	< 1.8 U	63.9 J+	0.08 J	< 0.61 U	< 0.61 U
SAE-36	0	N	04/16/08	< 0.51 U	< 0.063 U	< 1 U	4.4	99	< 0.08 U	0.6 J	0.64	< 0.051 U	< 1.6 U	0.0212	9	27.6	< 1.8 U	51.6 J+	0.1 J	< 0.6 U	< 0.6 U
SAE-37	0	N	04/16/08	< 0.83 U	< 0.27 U	< 0.56 U	2.5	83	< 0.084 U	0.99 J	0.93	< 0.021 U	< 0.53 U	0.301	8.5	19.1	< 1.9 U	96.4 J+	0.075 J	< 0.88 U	< 0.88 U
SAE-38	0	N	04/16/08	< 0.84 U	< 0.27 U	< 0.57 U	2 J	98	< 0.085 U	0.92 J	1.6	< 0.022 U	< 0.54 U	0.206	8.8	8.3	< 1.9 U	116 J+	< 0.31 U	< 0.61 U	< 0.61 U
SAE-38	10	N	04/23/08	< 0.83 U	< 0.26 U	3.5 J	299 J	96	< 0.084 U	3.7	5.5 J	< 0.21 U	< 0.53 U	3.57 J	8.4	3040	< 1.9 U	85.6	0.22 J	< 0.13 U	1.4
SAE-38	10	FD	04/23/08	< 0.83 U	< 0.27 U	1.3 J	98.2 J	95	< 0.084 U	3.2	2.5 J	< 0.21 U	< 0.53 U	1.65 J	8.5	3260	< 1.9 U	< 12.8 U	< 0.37 U	< 0.12 U	< 0.75 U
SAE-38	35[a]	N	04/23/08	< 1.3 U	< 0.42 U	14.9	450	72	< 0.13 U	5	14.8	< 0.33 U	< 0.83 U	1.24	7.8	1420	< 2.9 U	146	< 0.5 U	< 0.17 U	< 1 U
SAE-39	0	N	04/16/08	< 0.79 U	< 0.25 U	< 0.54 U	3.5	85		< 0.1 U	3.7	0.27	< 0.51 U	0.0281	9.1	10.3	< 1.8 U	228 J+	0.051 J	< 0.7 U	0.43 J
SAE-40	0	N	04/16/08	< 0.8 U	< 0.26 U	< 0.54 U	74.6	89	< 0.081 U	2.6	6.7	< 0.2 U	22.1	0.578	9.7	187	< 1.8 U	56.3 J+	< 0.34 U	< 0.67 U	< 0.67 U
SAE-41	0	N	04/16/08	< 0.85 U	< 0.27 U	< 0.58 U	1.9 J	84	< 0.087 U	0.62 J	1.4	< 0.022 U	< 0.55 U	0.0389	9.2	7.2	< 1.9 U	89.4 J+	< 0.36 U	< 0.71 U	< 0.71 U
SAE-41	10	N	04/23/08	< 0.83 U	< 0.27 U	< 0.56 U	1.4 J	94	< 0.084 U	2.8	0.77	< 0.021 U	< 0.53 U	0.0336	9.4	95.3	< 1.9 U	< 12.8 U	< 0.38 U	< 0.13 U	< 0.76 U
SAE-41	20[a]	N	04/23/08	< 0.84 U	< 0.27 U	< 0.57 U	7.2	86	< 0.085 U	2.1	1.8	< 0.021 U	< 0.54 U	0.842	9.1	145	< 1.9 U	86.9	< 0.42 U	< 0.14 U	0.59 J
SAE-42	0	N	04/16/08	< 0.79 U	< 0.25 U	< 0.54 U	65.9	82	< 0.08 U	1.8	18.9	0.98 J	< 0.51 U	0.238	8.9	152	< 1.8 U	114 J+	0.079 J	< 0.73 U	0.96
SAE-43	0	N	04/16/08	< 0.79 U	< 0.25 U	< 0.54 U	3.3	85	< 0.08 U	2.1	2.7	< 0.02 U	< 0.51 U	0.528	9.5	19.1	< 1.8 U	88.1 J+	0.054 J	< 0.7 U	0.43 J
SAE-43	10	N	04/23/08	< 0.84 U	< 0.27 U	5.9	143	93	< 0.085 U	3.2	1.6	< 0.22 U	< 0.54 U	1.24	8.8	247	< 1.9 U	< 12.9 U	< 0.39 U	< 0.13 U	< 0.77 U
SAE-43	17[a]	N	04/23/08	< 0.82 U	< 0.26 U	3.3 J	60.7	94	< 0.083 U	1.1	0.82	< 0.21 U	< 0.53 U	0.651	8.8	206	< 1.9 U	< 12.6 U	< 0.38 U	< 0.13 U	< 0.77 U
SAE-44	0	N	04/16/08	< 0.79 U	< 0.25 U	< 0.54 U	6.4	92	< 0.08 U	< 0.1 UJ	3.3	0.43 J	< 0.51 U	0.4	9.1	30.5	< 1.8 U	5100 J	< 0.35 U	< 0.7 U	< 0.7 U
SAE-44	0	FD	04/16/08	< 0.79 U	< 0.25 U	< 0.54 U	5.4	86	< 0.081 U	1.3 J	3.6	0.18 J	< 0.51 U	0.482	9.2	37.9	< 1.8 U	121 J	< 0.32 U	< 0.65 U	< 0.65 U
SAE-45	0	N	04/16/08	< 0.79 U	< 0.25 U	< 0.53 U	3.8	81	< 0.08 U	< 0.1 U	1.6	0.13 J	< 0.51 U	0.059	8.9	39.4	< 1.8 U	171 J+	< 0.37 U	< 0.74 U	< 0.74 U
SAE-46	0	N	04/16/08	< 0.79 U	< 0.25 U	16.2	2560	86	< 0.08 U	1.4	70.6	< 2 U	< 0.51 U	8.33	8.1	2550	< 1.8 U	153 J+	0.051 J	< 0.7 U	< 0.7 U

All units in mg/kg (except chlorite are in units of % and pH are unitless).

[a]Indicates sample collected from the capillary fringe.

= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-7
SOIL POLYCHLORINATED BIPHENYLS (PCBs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	PCBs												
				PCB 105 (BZ)	PCB 114 (BZ)	PCB 118 (BZ)	PCB 123 (BZ)	PCB 126 (BZ)	PCB 156 (BZ)	PCB 157 (BZ)	PCB 167 (BZ)	PCB 169 (BZ)	PCB 189 (BZ)	PCB 209 (BZ)	PCB 77 (BZ)	PCB 81 (BZ)
SAE-01	0	N	04/16/08	130	70	300	7.6	3	37	7.6	12	< 2 U	4.2	720	< 2 U	< 2 U
SAE-02	0	N	04/16/08	170	78	370	4.4	6.1	48	9.4	20	< 2 U	7.6	1800	< 2 U	< 2 U
SAE-03	0	N	04/16/08	180	39	410	11	7.1	51	11	25	2.1	20	4700 J	< 2 U	< 2 U
SAE-04	0	N	04/16/08	180	65	390	10	8.7	60	12	19	2.7	22	4900 J	< 2 U	< 2 U
SAE-05	0	N	04/16/08	650	97	1100	31	21	130	35	58	3.6	30	5000 J	< 2 U	< 2 U
SAE-06	0	N	04/16/08	500	170	1100	30	31	170	40	73	9.1	75	14000 J	< 2 U	< 2 U
SAE-07	0	N	04/16/08	7700	2400	16000 J	< 2.1 U	350	2300	510	990	100	970	160000 J	< 2.1 U	< 2.1 U
SAE-07	10	N	04/21/08	< 2.1 U	< 2.1 U	3.8	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	110	< 2.1 U	< 2.1 U
SAE-07	55[a]	N	04/21/08	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U	< 2.8 U
SAE-08	0	N	04/16/08	260 J	74 J	560 J	< 2.1 U	12 J	83 J	18	28 J	3.8 J	33 J	6600 J	< 2.1 U	< 2.1 U
SAE-08	0	FD	04/16/08	440 J	160 J	970 J	< 2 UJ	21 J	140 J	29	69 J	6.9 J	69 J	15000 J	< 2 UJ	< 2 UJ
SAE-09	0	N	04/15/08	7600 J	2400	17000 J	300	210	2200 J	430	750	43	400	72000 J	1000 J	960
SAE-10	0	N	04/15/08	2400 J	860	5600 J	65	66	710	150	250	11	110	23000 J	290	390
SAE-10	10	N	04/21/08	< 2.1 U	< 2.1 U	8.8	2.2	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	27	< 2.1 U	< 2.1 U
SAE-10	60[a]	N	04/21/08	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U	< 2.9 U
SAE-11	0	N	04/15/08	1200 J	440	2300 J	29	28	310	66	110	6.8	50	10000 J	120	220
SAE-12	0	N	04/15/08	680	210	1400 J	20	13	190	39	85	2.3	23	6800 J	65	120
SAE-13	0	N	04/15/08	190	< 2 U	380	24	59	140	57	97	39	180	17000 J	84	41
SAE-14	0	N	04/15/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-15	0	N	04/15/08	5.5	< 2.1 U	12	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	130	< 2.1 U	< 2.1 U
SAE-15	10	N	04/22/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-15	10	FD	04/22/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-15	55[a]	N	04/22/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-16	0	N	04/15/08	4900 J	970	10000 J	92	180	1600 J	330	650	68	530	110000 J	530	510
SAE-17	0	N	04/15/08	5200	740	11000 J	< 2.1 U	110	1400 J	300	610	34	290	80000 J	450	350
SAE-18	0	N	04/15/08	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
SAE-19	0	N	04/15/08	220	89	490	31	32	130	37	77	18	130	23000 J	44	48
SAE-20	0	N	04/15/08	170	50	340	6.9	8.5	55	12	23	2.4	22	6300 J	23	29
SAE-21	0	N	04/15/08	460	150	1000	13	17	150	33	60	5.3	40	12000 J	52	69
SAE-22	0	N	04/15/08	330	110	720	13	< 2.1 U	110	26	43	7.3	46	15000 J	44	50
SAE-22	10	N	04/22/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-22	10	FD	04/22/08	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ	< 2.1 UJ
SAE-22	50[a]	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-23	0	N	04/15/08	1300 J	300	2800 J	37	< 2.1 UJ	430	100	300	10	140	38000 J	140	140
SAE-24	0	N	04/15/08	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
SAE-25	0	N	04/15/08	< 2.1 U	< 2.1 U	3.7	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	110	< 2.1 U	< 2.1 U
SAE-26	0	N	04/15/08	150	21	300	14	< 2.1 U	53	14	23	4.2	26	9400 J	28	18
SAE-27	0	N	04/16/08	170	14	360	< 2.1 U	6	46	9.8	13	< 2.1 U	15	7000 J	< 2.1 U	< 2.1 U
SAE-28	0	N	04/16/08	250	20	520	< 2.1 U	8.4	65	15	26	2.8	20	13000 J	< 2.1 U	< 2.1 U

TABLE A-7
SOIL POLYCHLORINATED BIPHENYLS (PCBs) DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	PCBs												
				PCB 105 (BZ)	PCB 114 (BZ)	PCB 118 (BZ)	PCB 123 (BZ)	PCB 126 (BZ)	PCB 156 (BZ)	PCB 157 (BZ)	PCB 167 (BZ)	PCB 169 (BZ)	PCB 189 (BZ)	PCB 209 (BZ)	PCB 77 (BZ)	PCB 81 (BZ)
SAE-29	0	N	04/16/08	120	8.8	230	6	4	30	7	9.5	< 2.1 U	12	6200 J	< 2.1 U	< 2.1 U
SAE-30	0	N	04/16/08	4300	1900	8900	200	110	1100	240	390	17	160	39000 J	< 2.1 U	< 2.1 U
SAE-31	0	N	04/16/08	71	7.2	150	3.8	3.1	20	4.4	6.8	< 2 U	7.7	3800 J	< 2 U	< 2 U
SAE-32	0	N	04/16/08	130	28	230	7	5.6	41	9.7	13	< 2.1 U	19	4200 J	< 2.1 U	< 2.1 U
SAE-33	0	N	04/16/08	40	4.4	82	3.2	2.4	9.7	2.6	4.9	< 2 U	4.2	1200	< 2 U	< 2 U
SAE-34	0	N	04/16/08	750	51	1600	< 2 U	23	200	43	81	6.6	57	33000 J	< 2 U	< 2 U
SAE-34	10	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-34	35[a]	N	04/23/08	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U	< 2.4 U
SAE-35	0	N	04/16/08	10	< 2 U	21	< 2 U	< 2 U	2.9	< 2 U	< 2 U	< 2 U	< 2 U	550	< 2 U	< 2 U
SAE-36	0	N	04/16/08	< 2 U	< 2 U	2.4	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U	< 2 U
SAE-37	0	N	04/16/08	7.3	< 2.1 U	13	< 2.1 U	< 2.1 U	2.6	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	590	< 2.1 U	< 2.1 U
SAE-38	0	N	04/16/08	93	13	200	7.3	12	41	8.5	16 J	< 2.2 U	20	7200 J	< 2.2 U	< 2.2 UJ
SAE-38	10	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-38	10	FD	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-38	35[a]	N	04/23/08	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U	< 3.3 U
SAE-39	0	N	04/16/08	160	16	350	< 2 U	12	55	13	25	< 2 U	20	9800 J	< 2 U	< 2 U
SAE-40	0	N	04/16/08	76	< 2 U	140	< 2 U	< 2 U	25	5.3	8.8	< 2 U	4.6	4900 J	< 2 U	< 2 U
SAE-41	0	N	04/16/08	140	< 2.2 U	230	< 2.2 U	< 2.2 U	28	8.4	13	< 2.2 U	< 2.2 U	3700 J	< 2.2 U	< 2.2 U
SAE-41	10	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-41	20[a]	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-42	0	N	04/16/08	62	< 2 U	130	< 2 U	< 2 U	19	4.6	7.3	< 2 U	< 2 U	19000 J	< 2 U	< 2 U
SAE-43	0	N	04/16/08	9.2	< 2 U	20	< 2 U	< 2 U	3	< 2 U	< 2 U	< 2 U	< 2 U	680	< 2 U	< 2 U
SAE-43	10	N	04/23/08	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U
SAE-43	17[a]	N	04/23/08	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U	< 2.1 U
SAE-44	0	N	04/16/08	1300 J	66 J	2600 J	< 2 U	18 J	340 J	71 J	130 J	< 2 U	29 J	11000 J	< 2 U	< 2 U
SAE-44	0	FD	04/16/08	450 J	21 J	980 J	< 2 U	10 J	110 J	25 J	44 J	< 2 U	8.4 J	2500 J	< 2 U	< 2 U
SAE-45	0	N	04/16/08	310	17	660	11	< 2 U	87	19	35	< 2 U	9.8	2600 J	< 2 U	< 2 U
SAE-46	0	N	04/16/08	75	< 2 U	140	< 2 U	< 2 U	31	9.5	19	< 2 U	< 2 U	470	< 2 U	< 2 U

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-8
SOIL RADIONUCLIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Radionuclides							
				Radium-226	Radium-228	Thorium-228	Thorium-230	Thorium-232	Uranium-233/234	Uranium-235/236	Uranium-238
SAE-01	0	N	04/16/08	1.17	1.9	6.4	1.5	4.21 J	2.47	0.137 U	1.44
SAE-01R	0	N	08/14/08	1.16	1.39	1.75 J	1 U	1.22	1.11	0.0592 U	1.06
SAE-01R	0	FD	08/14/08	2.12	1.74	2.79 J	1.19	1.51	1.19	-0.0165 U	0.888
SAE-02	0	N	04/16/08	1.17	2.95	3.38	1.26	2.2 J	1.34	0.135 U	1.09
SAE-03	0	N	04/16/08	1.02	1.65	1.96	1.17	1.25	0.611	-0.0195 U	0.745
SAE-04	0	N	04/16/08	0.808	1.34	1.55	0.7	0.883	0.557 U	-0.0576 U	0.795
SAE-05	0	N	04/16/08	1.16	2.64	1.69	1.35	1.09	1.16	0.0544 U	0.913
SAE-06	0	N	04/16/08	1.85	2.41	1.98	1.57	1.48	1.85	0.0573 U	1.47
SAE-07	0	N	04/16/08	3.1	1.43	2.14	3.71	1.75	2.91	-0.0184 U	2.28
SAE-07	10	N	04/21/08	1.27	1.77	2.06	1.07	1.88	1.66	0.206	1.03
SAE-07	55[a]	N	04/21/08	1 U	0.992	1.34	1.55	1.26	1.2	0.0739 U	1.45
SAE-08	0	N	04/16/08	1.13	1.93	1.65	1.68	1.88	1.09	0.138 U	0.716
SAE-08	0	FD	04/16/08	1.46	1.09	1.65	1.09	1.31	1	-0.0389 U	0.838
SAE-09	0	N	04/15/08	1.47	1.61	2.07	2.52	1.08 J	4.07	0.131 U	2.28
SAE-10	0	N	04/15/08	1.86	1.45	1.23	1.19	0.791 J	2.32	0.0573 U	1.8
SAE-10	10	N	04/21/08	1.1	1.14	1.43	1.22	1.09	1.14	0.0689 U	1.07
SAE-10	60[a]	N	04/21/08	1.51	1.26	1.06	1.22	1.57	1.52	0.121 U	1.32
SAE-11	0	N	04/15/08	2.18	2.02	2.91	1.94	1.26 J	2.36	0.0566 U	1.96
SAE-12	0	N	04/15/08	1.17	2.35	3.35	1.07	2.18 J	1.27	0.0214 U	1.61
SAE-13	0	N	04/15/08	0.773	2.72	3	2.05	1.79 J	0.895	0.167 U	1.13
SAE-14	0	N	04/15/08	2.22	1.71	1.94	4.57	1.43 J	4.55	0.317 U	4.67
SAE-14R	0	N	08/12/08	3.1	0.794	2.39	2.43	1.41	2.78	0.023 U	2.01
SAE-15	0	N	04/15/08	2.51	2.28	2.61	3.41	3.07 J	3.08	0.176 U	3.04
SAE-15	10	N	04/22/08	0.728 J	0.286 UJ	1.48	1.17	1.31	1.47	0.306	0.57
SAE-15	10	FD	04/22/08	1.82 J	1.45 J	1.55	1.24	1.78	1.89	0.151 U	0.75
SAE-15	55[a]	N	04/22/08	0.624	1.43	1.08	1.36	0.998	1.35	0.306 U	1.13
SAE-16	0	N	04/15/08	1.22	1.5	1.69	1.46	1.92 J	1.28	-0.0345 U	1.18
SAE-17	0	N	04/15/08	2.64	1.75	1.89	2.64	1.3 J	2.45	0.128 U	2.03
SAE-18	0	N	04/15/08	1.6	1.89	2.11	0.991	2.23 J	0.91	0.0395 U	0.647
SAE-19	0	N	04/15/08	0.904	2.79	1.98	0.855	1.15 J	0.889	0.122 U	1.47
SAE-20	0	N	04/15/08	0.917	3.24	2.79	0.681	2.32 J	2.04	0.0481 U	1.08
SAE-21	0	N	04/15/08	0.789	2.63	3.28	1.04	1.34 J	1.41	0.0496 U	1.08
SAE-22	0	N	04/15/08	0.891	3.25	2.44	1.19	1.58 J	1.02	0.123 U	0.85
SAE-22	10	N	04/22/08	2.2	2.35	2.15	0.754	1.44	2.97 J	0.13 U	2.58 J
SAE-22	10	FD	04/22/08	1.43	1.35	1.99	1.01	1.42	1.51 J	0.126 U	0.881 J
SAE-22	50[a]	N	04/23/08	1.05	1.08	1.8	0.856	2.08	0.798	0.00308 U	0.78
SAE-23	0	N	04/15/08	1.09	2.72	1.87	1.18	1.87 J	1.65	0.241 U	1.7
SAE-24	0	N	04/15/08	0.8	2.17	3.26	1.4	1.38 J	1.38	0.138 U	0.968
SAE-25	0	N	04/15/08	0.659	5.59	2.97	1.23	1.09 J	2.06	0.336 U	1.33

TABLE A-8
SOIL RADIONUCLIDES DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	Radionuclides							
				Radium-226	Radium-228	Thorium-228	Thorium-230	Thorium-232	Uranium-233/234	Uranium-235/236	Uranium-238
SAE-26	0	N	04/15/08	1.5	1.77	3.23	1.72	2.73 J	1.13	0.188 U	1.05
SAE-27	0	N	04/16/08	1.14	1.85	2.16	1.23	1.31	1.37	0.0732 U	0.957
SAE-28	0	N	04/16/08	1.67	1.43	2.08	1.07	1.07	0.643	0.147 U	0.776
SAE-29	0	N	04/16/08	0.893	1.84	1.29	1.44	1.67	1.11	0.121 U	0.615
SAE-30	0	N	04/16/08	1.03	2.6	2.4	1.52	1.54	1.64	0.237 U	0.981
SAE-31	0	N	04/16/08	1.37	1.36	2.18	1.44	1.42	0.795	0.205 U	0.793
SAE-32	0	N	04/16/08	1.36	2.36	1.36	0.687	1.54	1.36	0.109 U	1.04
SAE-33	0	N	04/16/08	0.726	1.5	0.976	0.964	2.13	1.27	0.103 U	0.927
SAE-34	0	N	04/16/08	1.31	1.86	1.43	0.937	1.11	1 U	0.0323 U	0.941
SAE-34	10	N	04/23/08	1.45	2.3	1.57	1.05	2.13	1.08	0.194 U	1.84
SAE-34	35[a]	N	04/23/08	1.06	1.24	1.09	1.67	0.926	1.52	0.34	1.13
SAE-35	0	N	04/16/08	1 U	1.84	1.8	0.857	1.09	1 U	0.077 U	0.974
SAE-36	0	N	04/16/08	1 U	1.83	2.1	0.964	1.25	1 U	0.0567 U	0.925
SAE-37	0	N	04/16/08	1.3	1.59	1.63	1.17	1.42	1 U	0.126	0.655
SAE-38	0	N	04/16/08	1 U	2.38	1.29	0.644	1.22	1 U	0.0659 U	1.09
SAE-38	10	N	04/23/08	1.67	0.935	1.22	2.57	1.31	2.67	0.0701 U	1.52
SAE-38	10	FD	04/23/08	1.34	1.7	1.88	2.29	1.95	1.74	0.0678 U	1.78
SAE-38	35[a]	N	04/23/08	1.03	2.87	0.812 U	1.35	1	2.38	0.518	2.09
SAE-39	0	N	04/16/08	1.16	1.23	1.5	1.07	1.35	1 U	0.0664 U	1.11
SAE-40	0	N	04/16/08	1 U	1.47	1.74	1.12	1.5	1.01	0.13	1.1
SAE-41	0	N	04/16/08	1.04	2.04	1.71	1.23	1.37	1 U	0.136 U	0.877
SAE-41	10	N	04/23/08	2.08	1.44	0.856 U	1.52	0.898	1.42	0.142 U	0.818
SAE-41	20[a]	N	04/23/08	1.91	1.32	2.19	2.42	1.52	2.16	0.415	1.37
SAE-42	0	N	04/16/08	1.16	3.32	1.83	1.37	1.3	1 U	0.0926 U	1.05
SAE-43	0	N	04/16/08	1 U	1.47	1.47	0.869	1.3	1 U	0.265	0.657
SAE-43	10	N	04/23/08	1.88	1.83	0.764 U	1.89	1.07	2.33	0.126 U	1.05
SAE-43	17[a]	N	04/23/08	1.47	2.63	1.67	1.62	1.65	1.61	0.478	1
SAE-44	0	N	04/16/08	1 U	2.56	1.81	0.919	1.21	1 U	0.0623 U	0.761
SAE-44	0	FD	04/16/08	1	2.24	1.96	1.25	1.64	1 U	0.149	0.626
SAE-45	0	N	04/16/08	1.35	1.61	1.14	0.93	1.02	1 U	0.0919 U	0.802
SAE-46	0	N	04/16/08	1.05	0.327 U	1.79	1.23	1.21	1.02	0.0898 U	0.889

All units in pCi/g.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.
= Data not included in risk assessment. Sample depth greater than 10 feet bgs.

TABLE A-9
SOIL POLYAROMATIC HYDROCARBON DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 1 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	PAHs												
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
SAE-01	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00067 U	< 0.0011 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0037 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-02	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00067 U	< 0.0011 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0037 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-03	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0037 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-04	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-05	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-06	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-07	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	0.054 J	0.016 J	0.14 J	< 0.0023 UJ	0.089 J	0.056 J	0.053 J	< 0.0018 UJ	0.073 J
SAE-07	10	N	04/21/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-07	55[a]	N	04/21/08	< 0.025 U	< 0.022 UJ	< 0.00095 U	< 0.0016 UJ	< 0.0028 UJ	< 0.0028 UJ	< 0.0087 UJ	< 0.0032 UJ	< 0.0015 UJ	< 0.0053 UJ	< 0.0027 UJ	< 0.0024 UJ	< 0.0042 UJ
SAE-07R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-08	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-08	0	FD	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-09	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-10	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-10	10	N	04/21/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.004 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-10	60[a]	N	04/21/08	< 0.026 U	< 0.022 UJ	< 0.00097 U	< 0.0016 UJ	< 0.0028 UJ	< 0.0028 UJ	< 0.0088 UJ	< 0.0033 UJ	< 0.0015 UJ	< 0.0053 UJ	< 0.0028 UJ	< 0.0025 UJ	< 0.0043 UJ
SAE-11	0	N	04/15/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-12	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-13	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-14	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	0.041 J-	< 0.0023 UJ	0.1 J-	0.061 J-	0.046 J-	< 0.0018 UJ	0.057 J-
SAE-14R	0	N	08/12/08	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U
SAE-15	0	N	04/15/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	0.03 J-	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-15	10	N	04/22/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-15	10	FD	04/22/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-15	55[a]	N	04/22/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-16	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	0.036 J-	0.04 J-	0.018 J-	< 0.0018 UJ	< 0.0031 UJ
SAE-17	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	0.033 J-	0.046 J-	0.018 J-	< 0.0018 UJ	< 0.0031 UJ
SAE-18	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-19	0	N	04/15/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-20	0	N	04/15/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-21	0	N	04/15/08	< 0.019 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-22	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-22	10	N	04/22/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-22	10	FD	04/22/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-22	50[a]	N	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-23	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-24	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-25	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-26	0	N	04/15/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ

TABLE A-9
SOIL POLYAROMATIC HYDROCARBON DATA
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA
(Page 2 of 2)

Sample ID	Depth (ft bgs)	Sample Type	Sample Date	PAHs												
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene
SAE-27	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-28	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-29	0	N	04/16/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-30	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.0007 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-31	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-32	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-33	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-34	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-34	10	N	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-34	35[a]	N	04/23/08	< 0.021 U	< 0.019 UJ	< 0.00081 U	< 0.0014 UJ	< 0.0024 UJ	< 0.0024 UJ	< 0.0074 UJ	< 0.0027 UJ	< 0.0013 UJ	< 0.0045 UJ	< 0.0023 UJ	< 0.0021 UJ	< 0.0036 UJ
SAE-35	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-36	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-37	0	N	04/16/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-38	0	N	04/16/08	< 0.019 U	< 0.017 UJ	< 0.00072 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0066 UJ	< 0.0025 UJ	< 0.0011 UJ	< 0.004 UJ	< 0.0021 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-38	10	N	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-38	10	FD	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-38	35a	N	04/23/08	< 0.029 U	< 0.026 UJ	< 0.0011 U	< 0.0019 UJ	< 0.0033 UJ	< 0.0033 UJ	< 0.01 UJ	< 0.0038 UJ	< 0.0017 UJ	< 0.0062 UJ	< 0.0032 UJ	< 0.0028 UJ	< 0.0049 UJ
SAE-39	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-40	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00069 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0063 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-41	0	N	04/16/08	< 0.019 U	< 0.017 UJ	< 0.00073 U	< 0.0012 UJ	< 0.0022 UJ	< 0.0021 UJ	< 0.0067 UJ	< 0.0025 UJ	< 0.0011 UJ	< 0.0041 UJ	< 0.0021 UJ	< 0.0019 UJ	< 0.0033 UJ
SAE-41	10	N	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0065 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.004 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-41	20[a]	N	04/23/08	< 0.019 U	< 0.017 UJ	< 0.00072 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0066 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.004 UJ	< 0.0021 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-42	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-43	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-43	10	N	04/23/08	< 0.019 U	< 0.017 UJ	< 0.00072 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0066 UJ	< 0.0025 UJ	< 0.0011 UJ	< 0.004 UJ	< 0.0021 UJ	< 0.0018 UJ	< 0.0032 UJ
SAE-43	17[a]	N	04/23/08	< 0.019 U	< 0.016 UJ	< 0.00071 U	< 0.0012 UJ	< 0.0021 UJ	< 0.0021 UJ	< 0.0064 UJ	< 0.0024 UJ	< 0.0011 UJ	< 0.0039 UJ	< 0.002 UJ	< 0.0018 UJ	< 0.0031 UJ
SAE-44	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-44	0	FD	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-45	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0037 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ
SAE-46	0	N	04/16/08	< 0.018 U	< 0.016 UJ	< 0.00068 U	< 0.0012 UJ	< 0.002 UJ	< 0.002 UJ	< 0.0062 UJ	< 0.0023 UJ	< 0.0011 UJ	< 0.0038 UJ	< 0.0019 UJ	< 0.0017 UJ	< 0.003 UJ

All units in mg/kg.
[a]Indicates sample collected from the capillary fringe.
= Data not included in risk assessment. Sample location excavated and data replaced with post-excavation data.

ATTACHMENT B

DATA USABILITY TABLES
(ON CD)

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	2,4-DDE	34 J+	ug/kg	1	High surrogate recovery - 176%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238005	SAE-07-10	4,4-DDE	24 J+	ug/kg	1	High surrogate recovery - 176%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238005	SAE-07-10	4,4-DDT	7.9 J	ug/kg	1	High surrogate recovery - 176%; Percent difference between columns - 42.4%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	2,4-DDD	8.1 J+	ug/kg	1	High surrogate recovery - 317%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	beta-BHC	6.3 J+	ug/kg	1	High surrogate recovery - 317%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	2,4-DDE	170 X	ug/kg	2	High surrogate recovery - 317%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	4,4-DDE	130 X	ug/kg	2	High surrogate recovery - 317%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354019	SAE-10-SURFACE	4,4-DDT	60 J+	ug/kg	1	High surrogate recovery - 317%; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	Endrin ketone	3 J	ug/kg	1	High surrogate recovery - 317%; high percent difference between columns - 210%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Heptachlor epoxide	4.1 J	ug/kg	1	High surrogate recovery - 317%; high percent difference between columns - 247%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	4,4-DDE	3.5 J+	ug/kg	1	High surrogate recovery - 174%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	2,4-DDE	2.8 J	ug/kg	1	High surrogate recovery - 174%; high percent difference between columns - 41.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	2,4-DDE	5.7 J+	ug/kg	1	High surrogate recovery - 193%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354017	SAE-12-SURFACE	4,4-DDE	6.1 J+	ug/kg	1	High surrogate recovery - 193%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	2,4-DDE	13 J+	ug/kg	1	High surrogate recovery - 318%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	4,4-DDE	13 J+	ug/kg	1	High surrogate recovery - 318%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	beta-BHC	3.7 J+	ug/kg	1	High surrogate recovery - 318%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	2,4-DDD	2.8 J	ug/kg	1	High surrogate recovery - 318%; high percent difference between columns - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Methoxychlor	4.3 J	ug/kg	1	High surrogate recovery - 318%; high percent difference between columns - 93%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	2,4-DDD	48 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	2,4-DDE	400 X	ug/kg	2	High surrogate recoveries - 198%, 4170%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354006	SAE-14-SURFACE	4,4-DDE	330 X	ug/kg	2	High surrogate recoveries - 198%, 4170%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354006	SAE-14-SURFACE	4,4-DDT	150 X	ug/kg	2	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 93%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354006	SAE-14-SURFACE	Aldrin	5.8 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 107%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-SURFACE	alpha-BHC	2.2 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 137%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Endrin aldehyde	16 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 214%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	gamma-Chlordane	27 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 70%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Heptachlor epoxide	13 J	ug/kg	1	High surrogate recoveries - 198%, 4170%; high percent difference between columns - 204%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	2,4-DDD	10 J+	ug/kg	1	High surrogate recovery - 991%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354005	SAE-15-SURFACE	2,4-DDE	130 X	ug/kg	2	High surrogate recovery - 991%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	4,4-DDE	99 X	ug/kg	2	High surrogate recovery - 991%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354005	SAE-15-SURFACE	4,4-DDT	42 J	ug/kg	1	High surrogate recovery - 991%; calibration range exceeded; high percent difference between columns - 87%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	gamma-Chlordane	5.2 J	ug/kg	1	High surrogate recovery - 991%; high percent difference between columns - 176%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Heptachlor epoxide	3.1 J	ug/kg	1	High surrogate recovery - 991%; high percent difference between columns - 253%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	2,4-DDD	25 J+	ug/kg	1	High surrogate recoveries - 125%; 1990%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354004	SAE-16-SURFACE	gamma-Chlordane	20 J+	ug/kg	1	High surrogate recoveries - 125%; 1990%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	2,4-DDE	280 X	ug/kg	2	High surrogate recoveries - 125%; 1990%; calibration range exceedence.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354004	SAE-16-SURFACE	4,4-DDE	230 X	ug/kg	2	High surrogate recoveries - 125%; 1990%; calibration range exceedence.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354004	SAE-16-SURFACE	4,4-DDT	96 X	ug/kg	2	High surrogate recoveries - 125%; 1990%; calibration range exceedence.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354004	SAE-16-SURFACE	alpha-BHC	1.7 J	ug/kg	1	High surrogate recoveries - 125%; 1990%; high percent difference between columns - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Endrin aldehyde	11 J	ug/kg	1	High surrogate recoveries - 125%; 1990%; high percent difference between columns - 212%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Heptachlor epoxide	2 J	ug/kg	1	High surrogate recoveries - 125%; 1990%; high percent difference between columns - 1337%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	2,4-DDD	20 J+	ug/kg	1	High surrogate recovery - 1950%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354003	SAE-17-SURFACE	gamma-Chlordane	17 J+	ug/kg	1	High surrogate recovery - 1950%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	2,4-DDE	250 X	ug/kg	2	High surrogate recovery - 1950%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354003	SAE-17-SURFACE	4,4-DDE	210 X	ug/kg	2	High surrogate recovery - 1950%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354003	SAE-17-SURFACE	4,4-DDT	93 X	ug/kg	2	High surrogate recovery - 1950%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354003	SAE-17-SURFACE	Endrin aldehyde	8.9 J	ug/kg	1	High surrogate recovery - 1950%; high percent difference between columns - 266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Heptachlor epoxide	2.2 J	ug/kg	1	High surrogate recovery - 1950%; high percent difference between columns - 1008%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	2,4-DDE	28 J+	ug/kg	1	High surrogate recovery - 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	4,4-DDE	21 J+	ug/kg	1	High surrogate recovery - 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354013	SAE-20-SURFACE	4,4-DDT	19 J+	ug/kg	1	High surrogate recovery - 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	2,4-DDE	39 J+	ug/kg	1	High surrogate recovery - 180%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	4,4-DDE	26 J+	ug/kg	1	High surrogate recovery - 180%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	4,4-DDT	16 J	ug/kg	1	High surrogate recovery - 180%; Percent difference between columns - 42%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	2,4-DDE	17 J+	ug/kg	1	High surrogate recovery - 173%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	4,4-DDE	16 J+	ug/kg	1	High surrogate recovery - 173%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354011	SAE-22-SURFACE	4,4-DDT	9 J+	ug/kg	1	High surrogate recovery - 173%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	4,4-DDT	27 J+	ug/kg	1	High surrogate recoveries - 119%, 313%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	beta-BHC	4 J+	ug/kg	1	High surrogate recoveries - 119%, 313%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	2,4-DDE	62 X	ug/kg	2	High surrogate recoveries - 119%, 313%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354010	SAE-23-SURFACE	4,4-DDE	54 X	ug/kg	2	High surrogate recoveries - 119%, 313%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Endrin aldehyde	1.9 J	ug/kg	1	High surrogate recoveries - 119%, 313%; high percent difference between columns - 145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	2,4-DDE	17 J+	ug/kg	1	High surrogate recovery - 207%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	4,4-DDE	15 J+	ug/kg	1	High surrogate recovery - 207%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	4,4-DDT	9.9 J+	ug/kg	1	High surrogate recovery - 207%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354007	SAE-25-SURFACE	2,4-DDE	19 J+	ug/kg	1	High surrogate recovery - 136%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354007	SAE-25-SURFACE	4,4-DDE	16 J+	ug/kg	1	High surrogate recovery - 136%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	4,4-DDT	7.1 J+	ug/kg	1	High surrogate recovery 136%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	2,4-DDE	2.5 J+	ug/kg	1	High surrogate recovery 143%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	4,4-DDE	3 J+	ug/kg	1	High surrogate recovery 143%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363016	SAE-27-SURFACE	2,4-DDE	4 J+	ug/kg	1	High surrogate recovery 152%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363016	SAE-27-SURFACE	4,4-DDE	4.4 J+	ug/kg	1	High surrogate recovery 152%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363017	SAE-28-SURFACE	2,4-DDE	5.7 J+	ug/kg	1	High surrogate recovery 189%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363017	SAE-28-SURFACE	4,4-DDE	6.7 J+	ug/kg	1	High surrogate recovery - 189%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	4,4-DDE	2.2 J+	ug/kg	1	High surrogate recovery - 138%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	2,4-DDE	1.8 J	ug/kg	1	High surrogate recovery - 138%; high percent difference between columns - 69%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363002	SAE-2-SURFACE	4,4-DDT	3.8 J	ug/kg	1	High percent difference between columns - 43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363019	SAE-30-SURFACE	4,4-DDE	2.3 J+	ug/kg	1	High surrogate recovery - 123%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363008	SAE-31-SURFACE	2,4-DDE	2 J	ug/kg	1	High surrogate recovery - 146%; high percent difference between columns - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363008	SAE-31-SURFACE	4,4-DDE	2.1 J	ug/kg	1	High surrogate recovery 146%; high percent difference between columns - 47%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363009	SAE-32-SURFACE	beta-BHC	2.1 J+	ug/kg	1	High surrogate recovery 142%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363010	SAE-33-SURFACE	beta-BHC	2.3 J+	ug/kg	1	High surrogate recovery 123%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	2,4-DDE	3.1 J+	ug/kg	1	High surrogate recovery 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	4,4-DDE	4.1 J+	ug/kg	1	High surrogate recovery 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	beta-BHC	2.1 J+	ug/kg	1	High surrogate recovery 171%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	2,4-DDE	3.7 J+	ug/kg	1	High surrogate recovery 159%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	4,4-DDE	11 J+	ug/kg	1	High surrogate recovery 159%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	4,4-DDT	4.8 J+	ug/kg	1	High surrogate recovery 159%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	beta-BHC	3.1 J+	ug/kg	1	High surrogate recovery 159%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	2,4-DDE	1.9 J+	ug/kg	1	High surrogate recovery 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	4,4-DDE	5.9 J+	ug/kg	1	High surrogate recovery 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	beta-BHC	3.2 J+	ug/kg	1	High surrogate recovery 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	2,4-DDE	4.6 J+	ug/kg	1	High surrogate recovery 121%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	4,4-DDE	4.2 J+	ug/kg	1	High surrogate recovery 121%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	beta-BHC	3.8 J+	ug/kg	1	High surrogate recovery 135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	4,4-DDE	4.8 J+	ug/kg	1	High surrogate recovery 996%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	beta-BHC	3.9 J+	ug/kg	1	High surrogate recovery 996%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	4,4-DDE	2.6 J+	ug/kg	1	High surrogate recovery - 118%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	beta-BHC	3.4 J	ug/kg	1	High surrogate recovery - 118%; field duplicate imprecision - absolute difference = 2.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	beta-BHC	5.4 J	ug/kg	1	Field duplicate imprecision - absolute difference = 2.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363004	SAE-4-SURFACE	2,4-DDE	10 J+	ug/kg	1	High surrogate recovery - 123%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363004	SAE-4-SURFACE	4,4-DDE	11 J+	ug/kg	1	High surrogate recovery - 123%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363004	SAE-4-SURFACE	4,4-DDT	2.8 J	ug/kg	1	High surrogate recovery - 123%; Percent difference between columns - 55%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363005	SAE-5-SURFACE	2,4-DDE	36 J+	ug/kg	1	High surrogate recovery - 124%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	4,4-DDE	21 J+	ug/kg	1	High surrogate recovery - 124%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	4,4-DDT	3.6 J	ug/kg	1	High surrogate recovery - 124%; Percent difference between columns - 81%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363006	SAE-6-SURFACE	2,4-DDE	19 J+	ug/kg	1	High surrogate recovery - 151%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	4,4-DDE	23 J+	ug/kg	1	High surrogate recovery - 151%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	4,4-DDT	5.8 J	ug/kg	1	High surrogate recovery - 151%; Percent difference between columns - 49%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	4,4-DDT	160 J	ug/kg	1	Calibration violation; high percent difference between columns - 100%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	2,4-DDE	370 X	ug/kg	2	High surrogate recoveries - 127%, 1580%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170363007	SAE-7-SURFACE	4,4-DDE	300 X	ug/kg	2	High surrogate recoveries - 127%, 1580%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170363007	SAE-7-SURFACE	4,4-DDT	130 X	ug/kg	2	High surrogate recoveries - 127%, 1580%; calibration range exceeded; high percent difference between columns - 62%.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170363007	SAE-7-SURFACE	2,4-DDD	20 J	ug/kg	1	High surrogate recoveries - 127%, 1580%; high percent difference between columns - 62%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	Aldrin	2.2 J	ug/kg	1	High surrogate recoveries - 127%, 1580%; high percent difference between columns - 507%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	gamma-Chlordane	20 J	ug/kg	1	High surrogate recoveries - 127%, 1580%; high percent difference between columns - 63%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	2,4-DDE	4.5 J	ug/kg	1	Field duplicate imprecision - absolute difference = 14.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	4,4-DDE	4.1 J	ug/kg	1	Field duplicate imprecision - absolute difference = 12.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-Surface	4,4-DDT	< 1.7 UJ	ug/kg	1	Field duplicate imprecision - absolute difference = 2.3.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	4,4-DDT	4 J	ug/kg	1	High surrogate recovery - 133%; Percent difference between columns - 49%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	2,4-DDE	18 J	ug/kg	1	High surrogate recovery - 133%; Field duplicate imprecision - absolute difference = 14.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	4,4-DDE	16 J	ug/kg	1	High surrogate recovery - 133%; Field duplicate imprecision - absolute difference = 12.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	2,4-DDD	12 J+	ug/kg	1	High surrogate recoveries - 121%, 554%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	beta-BHC	14 J+	ug/kg	1	High surrogate recoveries - 121%, 554%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	2,4-DDE	370 X	ug/kg	2	High surrogate recoveries - 121%, 554%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354020	SAE-9-SURFACE	4,4-DDE	230 X	ug/kg	2	High surrogate recoveries - 121%, 554%; calibration range exceeded.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354020	SAE-9-SURFACE	4,4-DDT	130 X	ug/kg	2	High surrogate recoveries - 121%, 554%; calibration violation.	Sample underwent reanalysis. Original or reanalysis result was selected as a more accurate and precise value.
F8D170354020	SAE-9-SURFACE	Endrin aldehyde	11 J	ug/kg	1	High surrogate recoveries - 121%, 554%; high percent difference between columns - 137%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-1
DATA USABILITY EVALUATION FOR ORGANOCHLORINE PESTICIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	gamma-Chlordane	4 J	ug/kg	1	High surrogate recoveries - 121%, 554%; high percent difference between columns - 639%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Heptachlor epoxide	6.8 J	ug/kg	1	High surrogate recoveries - 121%, 554%; high percent difference between columns - 281%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	PCB 105 (BZ)	2400 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	PCB 118 (BZ)	5600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	PCB 209 (BZ)	23000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	PCB 105 (BZ)	1200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	PCB 118 (BZ)	2300 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	PCB 209 (BZ)	10000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	PCB 118 (BZ)	1400 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	PCB 209 (BZ)	6800 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	PCB 209 (BZ)	17000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	PCB 105 (BZ)	4900 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	PCB 118 (BZ)	10000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	PCB 156 (BZ)	1600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	PCB 209 (BZ)	110000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	PCB 118 (BZ)	11000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	PCB 156 (BZ)	1400 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	PCB 209 (BZ)	80000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	PCB 209 (BZ)	23000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	PCB 209 (BZ)	6300 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	PCB 209 (BZ)	12000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 105 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 114 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 118 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 123 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 126 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	PCB 156 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 157 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 167 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 169 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 189 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 209 (BZ)	< 21 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	PCB 77 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	PCB 81 (BZ)	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	PCB 209 (BZ)	15000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	PCB 105 (BZ)	1300 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	PCB 118 (BZ)	2800 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	PCB 209 (BZ)	38000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	PCB 126 (BZ)	<57 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	PCB 209 (BZ)	9400 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363016	SAE-27-SURFACE	PCB 209 (BZ)	7000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363017	SAE-28-SURFACE	PCB 209 (BZ)	13000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363018	SAE-29-SURFACE	PCB 209 (BZ)	6200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363019	SAE-30-SURFACE	PCB 209 (BZ)	39000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363008	SAE-31-SURFACE	PCB 209 (BZ)	3800 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363009	SAE-32-SURFACE	PCB 209 (BZ)	4200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363011	SAE-34-SURFACE	PCB 209 (BZ)	33000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	PCB 209 (BZ)	7200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	PCB 167 (BZ)	16 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	PCB 81 (BZ)	< 11 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	PCB 209 (BZ)	9800 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363003	SAE-3-SURFACE	PCB 209 (BZ)	4700 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310004	SAE-40-SURFACE	PCB 209 (BZ)	4900 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	PCB 209 (BZ)	3700 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	PCB 209 (BZ)	19000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 105 (BZ)	1300 J	pg/g	1	Field duplicate imprecision - RPD = 97%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	PCB 114 (BZ)	66 J	pg/g	1	Field duplicate imprecision - RPD = 103%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 126 (BZ)	18 J	pg/g	1	Field duplicate imprecision - absolute difference = 8	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 156 (BZ)	340 J	pg/g	1	Field duplicate imprecision - RPD = 102%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 157 (BZ)	71 J	pg/g	1	Field duplicate imprecision - RPD = 96%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 167 (BZ)	130 J	pg/g	1	Field duplicate imprecision - RPD = 99%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 189 (BZ)	29 J	pg/g	1	Field duplicate imprecision - absolute difference = 20.6	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	PCB 118 (BZ)	2600 J	pg/g	1	Field duplicate imprecision - RPD = 91%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	PCB 209 (BZ)	11000 J	pg/g	1	Field duplicate imprecision - RPD = 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 105 (BZ)	450 J	pg/g	1	Field duplicate imprecision - RPD = 97%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 114 (BZ)	21 J	pg/g	1	Field duplicate imprecision - RPD = 103%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 118 (BZ)	980 J	pg/g	1	Field duplicate imprecision - RPD = 91%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 126 (BZ)	10 J	pg/g	1	Field duplicate imprecision - absolute difference = 8	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	PCB 156 (BZ)	110 J	pg/g	1	Field duplicate imprecision - RPD = 102%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 157 (BZ)	25 J	pg/g	1	Field duplicate imprecision - RPD = 96%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 167 (BZ)	44 J	pg/g	1	Field duplicate imprecision - RPD = 99%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 189 (BZ)	8.4 J	pg/g	1	Field duplicate imprecision - absolute difference = 20.6	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	PCB 209 (BZ)	2500 J	pg/g	1	Field duplicate imprecision - RPD = 126%; calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	PCB 209 (BZ)	2600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	PCB 209 (BZ)	4900 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363005	SAE-5-SURFACE	PCB 209 (BZ)	5000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363006	SAE-6-SURFACE	PCB 209 (BZ)	14000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	PCB 118 (BZ)	16000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	PCB 209 (BZ)	160000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 105 (BZ)	260 J	pg/g	1	Field duplicate imprecision - 51% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	PCB 114 (BZ)	74 J	pg/g	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 118 (BZ)	560 J	pg/g	1	Field duplicate imprecision - 54% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 126 (BZ)	12 J	pg/g	1	Field duplicate imprecision - 55% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 156 (BZ)	83 J	pg/g	1	Field duplicate imprecision - 51% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 167 (BZ)	28 J	pg/g	1	Field duplicate imprecision - 85% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 169 (BZ)	3.8 J	pg/g	1	Field duplicate imprecision -absolute difference - 3.1	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	PCB 189 (BZ)	33 J	pg/g	1	Field duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	PCB 209 (BZ)	6600 J	pg/g	1	Field duplicate imprecision - 78% RPD; calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 123 (BZ)	< 30 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 77 (BZ)	< 47 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 81 (BZ)	< 66 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 156 (BZ)	140 J	pg/g	1	Field duplicate imprecision - 51% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	PCB 167 (BZ)	69 J	pg/g	1	Field duplicate imprecision - 85% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 169 (BZ)	6.9 J	pg/g	1	Field duplicate imprecision -absolute difference - 3.1	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 189 (BZ)	69 J	pg/g	1	Field duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 209 (BZ)	15000 J	pg/g	1	Field duplicate imprecision - 78% RPD; calibration range exceeded; low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 105 (BZ)	440 J	pg/g	1	Field duplicate imprecision - 51% RPD; low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 114 (BZ)	160 J	pg/g	1	Field duplicate imprecision -74% RPD; low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	PCB 118 (BZ)	970 J	pg/g	1	Field duplicate imprecision -54% RPD; low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	PCB 126 (BZ)	21 J	pg/g	1	Field duplicate imprecision -55% RPD; low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	PCB 105 (BZ)	7600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	PCB 118 (BZ)	17000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	PCB 156 (BZ)	2200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	PCB 209 (BZ)	72000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-2
DATA USABILITY EVALUATION FOR POLYCHLORINATED BIPHENYLS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	PCB 77 (BZ)	1000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8H130253002	SAE-07R	droxymethyl phthalim	< 330 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8H130253002	SAE-07R	Phthalic acid	< 1600 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8H130253003	SAE-14R	droxymethyl phthalim	< 340 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8H130253003	SAE-14R	Phthalic acid	< 1600 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-Surface	,4,5-Tetrachlorobenze	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	1,2-Diphenylhydrazine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	1,4-Dioxane	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	,2'-/4,4'-Dichlorobenz	0.33 J	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,4,5-Trichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,4,6-Trichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-Surface	2,4-Dichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,4-Dimethylphenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,4-Dinitrophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,4-Dinitrotoluene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2,6-Dinitrotoluene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Chloronaphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Chlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Methylnaphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Nitroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Nitrophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	3,3'-Dichlorobenzidine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	ylphenol & 4-Methyl	< 0.069 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	3-Nitroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	romophenyl phenyl e	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Chloro-3-Methylphen	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	hlorophenyl phenyl e	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	4-Chlorothioanisole	< 0.0078 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	4-Nitrophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-Surface	Acetophenone	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Aniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Azobenzene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Benzenethiol	< 0.13 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Benzoic acid	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Benzyl alcohol	0.081 J	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Benzyl butyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	2-Chloroethoxy) meth	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	is(2-Chloroethyl) ethe	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	(2-Chloroisopropyl) et	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	(2-Ethylhexyl) phthal	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	p-Chlorophenyl) disul	< 0.21 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	(p-Chlorophenyl) sulf	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Carbazole	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Dibenzofuran	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Dibutyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Diethyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Dimethyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-Surface	Di-n-octyl phthalate	< 0.015 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Diphenyl sulfone	< 0.0069 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Fluoranthene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Fluorene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	exachloro-1,3-butadie	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Hexachlorobenzene	1.4	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	xachlorocyclopentadie	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Hexachloroethane	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	droxymethyl phthalim	< 0.045 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Isophorone	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Naphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Nitrobenzene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	nitrosodi-n-propylami	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	N-nitrosodiphenylamin	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	o-Cresol	< 0.12 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Octachlorostyrene	0.29 J	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	p-Chloroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	p-Chlorothiophenol	< 0.19 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-Surface	Pentachlorobenzene	0.1 J	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Pentachlorophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Phenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Phenyl Disulfide	< 0.03 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Phenyl Sulfide	< 0.0036 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Phthalic acid	< 0.26 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	p-Nitroaniline	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-Surface	Pyridine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D230241003	SAE-15-CAP	droxymethyl phthalim	< 340 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272003	SAE-34-CAP	droxymethyl phthalim	< 400 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	droxymethyl phthalim	< 550 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272009	SAE-43-10	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	droxymethyl phthalim	< 350 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-Surface	,4,5-Tetrachlorobenze	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	1,2-Diphenylhydrazine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	1,4-Dioxane	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,2'-/4,4'-Dichlorobenz	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4,5-Trichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4,6-Trichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4-Dichlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4-Dimethylphenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4-Dinitrophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,4-Dinitrotoluene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2,6-Dinitrotoluene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2-Chloronaphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-Surface	2-Chlorophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2-Methylnaphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2-Nitroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2-Nitrophenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	3,3'-Dichlorobenzidine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	hylphenol & 4-Methyl	< 0.068 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	3-Nitroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	romophenyl phenyl e	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Chloro-3-Methylphen	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	hlorophenyl phenyl e	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	4-Chlorothioanisole	< 0.0078 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	4-Nitrophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Acetophenone	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Aniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Azobenzene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Benzenethiol	< 0.13 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Benzoic acid	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Benzyl alcohol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-Surface	Benzyl butyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	2-Chloroethoxy) meth	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	is(2-Chloroethyl) ethe	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	(2-Chloroisopropyl) et	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	(2-Ethylhexyl) phthal	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	p-Chlorophenyl) disul	< 0.21 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	(p-Chlorophenyl) sulf	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Carbazole	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Dibenzofuran	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Dibutyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Diethyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Dimethyl phthalate	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Di-n-octyl phthalate	< 0.015 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Diphenyl sulfone	< 0.0068 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Fluoranthene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Fluorene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	exachloro-1,3-butadie	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Hexachlorobenzene	2	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-Surface	xachlorocyclopentadie	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Hexachloroethane	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	droxymethyl phthalim	< 0.045 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Isophorone	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Naphthalene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Nitrobenzene	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	nitrosodi-n-propylami	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	N-nitrosodiphenylamin	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	o-Cresol	< 0.12 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Octachlorostyrene	0.42	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	p-Chloroaniline	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	p-Chlorothiophenol	< 0.19 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Pentachlorobenzene	0.1 J	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Pentachlorophenol	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Phenol	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Phenyl Disulfide	< 0.029 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Phenyl Sulfide	< 0.0036 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Phthalic acid	< 0.26 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-3
DATA USABILITY EVALUATION FOR SEMI-VOLATILE ORGANIC COMPOUNDS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-Surface	p-Nitroaniline	< 0.34 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Pyridine	< 0.034 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Acenaphthylene	< 140 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238006	SAE-07-CAP	Benzo(a)anthracene	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Benzo(a)pyrene	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Benzo(b)fluoranthene	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Benzo(g,h,i)perylene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Benzo(k)fluoranthene	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Chrysene	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238006	SAE-07-CAP	Dibenzo(a,h)anthracen	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	ndeno(1,2,3-cd)pyren	< 21 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Phenanthrene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Pyrene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238007	SAE-10-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238007	SAE-10-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Acenaphthylene	< 140 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Benzo(a)anthracene	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Benzo(a)pyrene	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238008	SAE-10-CAP	Benzo(b)fluoranthene	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Benzo(g,h,i)perylene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Benzo(k)fluoranthene	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Chrysene	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Dibenzo(a,h)anthracen	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	ndeno(1,2,3-cd)pyren	< 22 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238008	SAE-10-CAP	Phenanthrene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Pyrene	< 43 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354018	SAE-11-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354006	SAE-14-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-SURFACE	Benzo(g,h,i)perylene	41 J-	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Chrysene	100 J-	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Dibenzo(a,h)anthracen	61 J-	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	ndeno(1,2,3-cd)pyren	46 J-	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Pyrene	57 J-	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Acenaphthene	< 0.018 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Anthracene	< 0.00069 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D230241001	SAE-15-10	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Dibenzo(a,h)anthracene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Indeno(1,2,3-cd)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Chrysene	30 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Chrysene	36 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Dibenzo(a,h)anthracen	40 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	ndeno(1,2,3-cd)pyren	18 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354003	SAE-17-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354003	SAE-17-SURFACE	Chrysene	33 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Dibenzo(a,h)anthracen	46 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	ndeno(1,2,3-cd)pyren	18 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354001	SAE-19-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354001	SAE-19-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241004	SAE-22-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241004	SAE-22-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272001	SAE-22-CAP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272001	SAE-22-CAP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354009	SAE-24-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354008	SAE-26-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354008	SAE-26-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363016	SAE-27-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363016	SAE-27-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363017	SAE-28-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363017	SAE-28-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363018	SAE-29-SURFACE	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363018	SAE-29-SURFACE	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363002	SAE-2-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363019	SAE-30-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363019	SAE-30-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363008	SAE-31-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363008	SAE-31-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363009	SAE-32-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363009	SAE-32-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363010	SAE-33-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363010	SAE-33-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Acenaphthylene	< 120 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Benzo(a)anthracene	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Benzo(a)pyrene	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Benzo(b)fluoranthene	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Benzo(g,h,i)perylene	< 36 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272003	SAE-34-CAP	Benzo(k)fluoranthene	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Chrysene	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Dibenzo(a,h)anthracen	< 36 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	ndeno(1,2,3-cd)pyren	< 18 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Phenanthrene	< 36 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Pyrene	< 36 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363011	SAE-34-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363011	SAE-34-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363012	SAE-35-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363012	SAE-35-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363013	SAE-36-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363013	SAE-36-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272004	SAE-38-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272004	SAE-38-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272005	SAE-38-10-DUP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272006	SAE-38-CAP	Acenaphthylene	< 170 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Benzo(a)anthracene	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Benzo(a)pyrene	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Benzo(b)fluoranthene	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Benzo(g,h,i)perylene	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Benzo(k)fluoranthene	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272006	SAE-38-CAP	Chrysene	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Dibenzo(a,h)anthracen	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	ndeno(1,2,3-cd)pyren	< 25 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Phenanthrene	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Pyrene	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363003	SAE-3-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363003	SAE-3-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272007	SAE-41-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310005	SAE-41-SURFACE	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Benzo(g,h,i)perylene	< 33 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310005	SAE-41-SURFACE	Dibenzo(a,h)anthracen	< 33 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Phenanthrene	< 33 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Pyrene	< 33 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272009	SAE-43-10	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272009	SAE-43-10	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Acenaphthylene	< 110 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Benzo(a)anthracene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Benzo(a)pyrene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Benzo(b)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272010	SAE-43-CAP	Benzo(g,h,i)perylene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Benzo(k)fluoranthene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Chrysene	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Dibenzo(a,h)anthracen	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	ndeno(1,2,3-cd)pyren	< 16 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Phenanthrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272010	SAE-43-CAP	Pyrene	< 32 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310007	SAE-43-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310010	SAE-45-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310010	SAE-45-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363005	SAE-5-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363006	SAE-6-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Benzo(g,h,i)perylene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363006	SAE-6-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Dibenzo(a,h)anthracen	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Phenanthrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Pyrene	< 30 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Phenanthrene	< 31 UJ	ug/kg	2	Calibration violation; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Benzo(a)pyrene	54 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Benzo(b)fluoranthene	16 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Benzo(g,h,i)perylene	140 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Chrysene	89 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	Dibenzo(a,h)anthracen	56 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-SURFACE	ndeno(1,2,3-cd)pyren	53 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	Pyrene	73 J	ug/kg	2	Calibration violation; high surrogate recovery - 142%; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Acenaphthene	< 0.018 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Anthracene	< 0.00069 U	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363014	SAE-8-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Benzo(a)pyrene	< 15 J-	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	Acenaphthylene	< 100 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Benzo(a)anthracene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Benzo(a)pyrene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Benzo(b)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Benzo(g,h,i)perylene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Benzo(k)fluoranthene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-4
DATA USABILITY EVALUATION FOR POLYNUCLEAR AROMATIC HYDROCARBONS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	Chrysene	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Dibenzo(a,h)anthracen	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	ndeno(1,2,3-cd)pyren	< 15 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Phenanthrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Pyrene	< 31 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8H130253002	SAE-07R	ctachlorodibenzodiox	<184 U	pg/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8H130253002	SAE-07R	Octachlorodibenzofura	4600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	ctachlorodibenzodiox	93 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170354019	SAE-10-SURFACE	Octachlorodibenzofura	2500 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170354018	SAE-11-SURFACE	Octachlorodibenzofura	2200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	,8-Tetrachlorodibenzo	1200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8H130253005	SAE-16R	,8-Tetrachlorodibenzo	1100 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	8-Hexachlorodibenzo	110 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	,7,8-Hexachlorodibenz	1400 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	8-Hexachlorodibenzo	180 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	,8,9-Hexachlorodibenz	380 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	9-Hexachlorodibenzo	170 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	-Pentachlorodibenzo-	150 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	,7,8-Hexachlorodibenz	410 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8H130253005	SAE-16R	,8,9-Heptachlorodiber	2500 J	pg/g	2	Calibration range exceeded; low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	7,8-Hexachlorodibenz	2400 J	pg/g	2	Calibration range exceeded; low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	,7,8-Heptachlorodiber	4600 J	pg/g	2	Calibration range exceeded; low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	)ctachlorodibenzofura	24000 J	pg/g	2	Calibration range exceeded; low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	,8-Heptachlorodibenz	510 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	ctachlorodibenzodiox	510 J	pg/g	2	Low internal standard recovery; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	7,8-Pentachlorodibenz	1600	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	7,8-Pentachlorodibenz	810	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	-Tetrachlorodibenzo-p	45	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	,7,8-Heptachlorodiber	6700 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-SURFACE	,8,9-Heptachlorodiber	3300 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-SURFACE	7,8-Hexachlorodibenz	3700 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-SURFACE	8-Tetrachlorodibenzo	1100 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	,8-Heptachlorodibenz	690	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	8-Hexachlorodibenzo	96	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	7,8-Hexachlorodibenz	2000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	8-Hexachlorodibenzo	230	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	8,9-Hexachlorodibenz	390	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	9-Hexachlorodibenzo	190	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	7,8-Pentachlorodibenz	1900	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	-Pentachlorodibenzo-	170	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	7,8-Hexachlorodibenz	470	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	7,8-Pentachlorodibenz	1000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-Surface	-Tetrachlorodibenzo-p	45	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	ctachlorodibenzodiox	820	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	)ctachlorodibenzofura	33000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-Surface	TCDD TEQ	1760	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354003	SAE-17-SURFACE	,7,8-Heptachlorodiber	4200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	,7,8-Hexachlorodibenz	2200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	,8-Tetrachlorodibenzo	620 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	)ctachlorodibenzofura	5200 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	,7,8-Heptachlorodiber	43 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	,8-Heptachlorodibenz	10 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	,8,9-Heptachlorodiber	19 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	,7,8-Hexachlorodibenz	26 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	8-Hexachlorodibenzo	< 1.8 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	,7,8-Hexachlorodibenz	15 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	8-Hexachlorodibenzo	< 2.4 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	8,9-Hexachlorodibenz	< 2.4 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	9-Hexachlorodibenzo	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	7,8-Pentachlorodibenz	13 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	-Pentachlorodibenzo-	< 2.1 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	7,8-Pentachlorodibenz	7.5 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	-Tetrachlorodibenzo-p	< 0.82 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	ctachlorodibenzodiox	17 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	Octachlorodibenzofura	190 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363001	SAE-1-SURFACE	,7,8-Hexachlorodibenz	4.5 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	9-Hexachlorodibenzo	7.2 J	pg/g	1	Field duplicate imprecision - absolute difference - 6.82.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	9-Hexachlorodibenzo	< 0.38 UJ	pg/g	1	Field duplicate imprecision - absolute difference - 6.82.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	,7,8-Heptachlorodiber	3300 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	8-Tetrachlorodibenzo	770 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363017	SAE-28-SURFACE	,7,8-Heptachlorodiber	310 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363017	SAE-28-SURFACE	,8,9-Heptachlorodiber	130 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D170363011	SAE-34-SURFACE	ctachlorodibenzofura	8700 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	,7,8-Heptachlorodiber	420 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	,8-Heptachlorodibenz	36 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	,8,9-Heptachlorodiber	150 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	,7,8-Hexachlorodibenz	180 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	,7,8-Hexachlorodibenz	95 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	8-Hexachlorodibenzo	8.8 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	,8,9-Hexachlorodibenz	13 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	9-Hexachlorodibenzo	9.9 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	7,8-Pentachlorodibenz	83 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	3-Pentachlorodibenzo-	7.9 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	,7,8-Hexachlorodibenz	30 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	7,8-Pentachlorodibenz	45 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	8-Tetrachlorodibenzo	41 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	-Tetrachlorodibenzo-p	2.6 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	ctachlorodibenzodiox	60 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	Octachlorodibenzofura	1900 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310002	SAE-38-SURFACE	8-Hexachlorodibenzo	4.3 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	,8-Tetrachlorodibenzo	48 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310003	SAE-39-SURFACE	-Tetrachlorodibenzo-p	1.8 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	ctachlorodibenzodiox	< 0.85 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310004	SAE-40-SURFACE	)ctachlorodibenzofura	150 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D240272007	SAE-41-10	ctachlorodibenzodiox	< 0.52 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D240272007	SAE-41-10	)ctachlorodibenzofura	< 0.46 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,7,8-Heptachlorodiber	150 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,8,9-Heptachlorodiber	57 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	,7,8-Hexachlorodibenz	33 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	8-Hexachlorodibenzo	< 0.41 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,7,8-Hexachlorodibenz	14 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	8-Hexachlorodibenzo	< 1.7 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	9-Hexachlorodibenzo	< 0.98 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,8-Pentachlorodibenz	21 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	3-Pentachlorodibenzo-	< 1.9 UJ	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	7,8-Pentachlorodibenz	8 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,8-Tetrachlorodibenzo	45 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	Octachlorodibenzofura	3500 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined..
F8D180310006	SAE-42-SURFACE	,8-Heptachlorodibenz	4 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	,8,9-Hexachlorodibenz	3.9 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	,7,8-Hexachlorodibenz	4.7 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	-Tetrachlorodibenzo-p	0.83 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	ctachlorodibenzodiox	7.7 J	pg/g	1	Low internal standard recovery.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	,8-Heptachlorodibenz	25 J	pg/g	1	Field duplicate imprecision - absolute difference - 16.1.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	,8,9-Heptachlorodiber	51 J	pg/g	1	Field duplicate imprecision - 65% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	,7,8-Hexachlorodibenz	71 J	pg/g	1	Field duplicate imprecision - 76% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	,7,8-Hexachlorodibenz	37 J	pg/g	1	Field duplicate imprecision - absolute difference - 20.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	7,8-Pentachlorodibenz	34 J	pg/g	1	Field duplicate imprecision - absolute difference - 15.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	,7,8-Hexachlorodibenz	11 J	pg/g	1	Field duplicate imprecision - absolute difference - 7.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	7,8-Pentachlorodibenz	18 J	pg/g	1	Field duplicate imprecision - absolute difference - 6.5.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	ctachlorodibenzodiox	83 J	pg/g	1	Field duplicate imprecision - absolute difference - 6.5.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Octachlorodibenzofura	1000 J	pg/g	1	Field duplicate imprecision - 101% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	,8-Heptachlorodibenz	8.9 J	pg/g	1	Field duplicate imprecision - absolute difference - 16.1.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,8,9-Heptachlorodiber	26 J	pg/g	1	Field duplicate imprecision - 65% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,7,8-Hexachlorodibenz	32 J	pg/g	1	Field duplicate imprecision - 76% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,7,8-Hexachlorodibenz	17 J	pg/g	1	Field duplicate imprecision - absolute difference - 20.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,8-Pentachlorodibenz	19 J	pg/g	1	Field duplicate imprecision - absolute difference - 15.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,8-Pentachlorodibenz	11 J	pg/g	1	Field duplicate imprecision - absolute difference - 6.5.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	ctachlorodibenzodiox	22 J	pg/g	1	Field duplicate imprecision - absolute difference - 61.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	)ctachlorodibenzofura	330 J	pg/g	1	Field duplicate imprecision - 101% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	,7,8-Hexachlorodibenz	4.5 J	pg/g	1	Field duplicate imprecision - absolute difference - 7.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	,8-Tetrachlorodibenzo	1800 J	pg/g	2	Calibration range exceeded; soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	),7,8-Heptachlorodiber	18000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,8-Heptachlorodibenz	1800	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,8,9-Heptachlorodiber	7100	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,7,8-Hexachlorodibenz	8800	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	8-Hexachlorodibenzo	230	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,7,8-Hexachlorodibenz	5000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	8-Hexachlorodibenzo	430	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-Surface	,8,9-Hexachlorodibenz	830	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	9-Hexachlorodibenzo	440	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,8-Pentachlorodibenz	3500	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	-Pentachlorodibenzo-	320	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	7,8-Hexachlorodibenz	1100	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	,8-Pentachlorodibenz	1900	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	-Tetrachlorodibenzo-p	80	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	ctachlorodibenzodiox	2200	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	Octachlorodibenzofura	51000	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363007	SAE-7-Surface	TCDD TEQ	3704	pg/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354020	SAE-9-SURFACE	,7,8-Heptachlorodiber	2700 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	,8-Tetrachlorodibenzo	600 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-5
DATA USABILITY EVALUATION FOR DIOXIN/FURANS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	Octachlorodibenzofura	8000 J	pg/g	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
213915001	SAE-01R	Thorium-230	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
213915001	SAE-01R	Thorium-228	1.75 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.04	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
213915002	SAE-01R FD	Thorium-228	2.79 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.04	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207088002	SAE-07-CAP	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
206861017	SAE-10-Surface	Thorium-232	0.791 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861016	SAE-11-Surface	Thorium-232	1.26 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
206861015	SAE-12-Surface	Thorium-232	2.18 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861014	SAE-13-Surface	Thorium-232	1.79 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861013	SAE-14-Surface	Thorium-232	1.43 J	pCi/g	2	Laboratory duplicate imprecision - 1.24; soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Radium-226	2.22	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Radium-228	1.71	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Thorium-228	1.94	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Thorium-230	4.57	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Uranium-233/234	4.55	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Uranium-235/236	0.317 U	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861013	SAE-14-Surface	Uranium-238	4.67	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
207231001	SAE-15-10	Radium-226	0.728 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.092	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
207231001	SAE-15-10	Radium-228	<0.286 UJ	pCi/g	1	Field duplicate imprecision - absolute difference = 1.164	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207231002	SAE-15-10-DUP	Radium-226	1.82 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.092	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207231002	SAE-15-10-DUP	Radium-228	1.45 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.164	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
206861012	SAE-15-Surface	Thorium-232	3.07 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861011	SAE-16-Surface	Thorium-232	1.92 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861010	SAE-17-Surface	Thorium-232	1.3 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
206861009	SAE-18-Surface	Thorium-232	2.23 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861008	SAE-19-Surface	Thorium-232	1.15 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861019	SAE-1-Surface	Thorium-232	4.21 J	pCi/g	1	Laboratory duplicate imprecision - 1.24; soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Radium-226	1.17	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Radium-228	1.9	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Thorium-228	6.4	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Thorium-230	1.5	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Uranium-233/234	2.47	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Uranium-235/236	0.137 U	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861019	SAE-1-Surface	Uranium-238	1.44	pCi/g	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
206861007	SAE-20-Surface	Thorium-232	2.32 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
206861006	SAE-21-Surface	Thorium-232	1.34 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
207231004	SAE-22-10	Uranium-233/234	2.97 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.46	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207231004	SAE-22-10	Uranium-238	2.58 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.699	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207231005	SAE-22-10-DUP	Uranium-233/234	1.51 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.46	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207231005	SAE-22-10-DUP	Uranium-238	0.881 J	pCi/g	1	Field duplicate imprecision - absolute difference = 1.699	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
206861005	SAE-22-Surface	Thorium-232	1.58 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
206861004	SAE-23-Surface	Thorium-232	1.87 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861003	SAE-24-Surface	Thorium-232	1.38 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861001	SAE-25-Surface	Thorium-232	1.09 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861002	SAE-26-Surface	Thorium-232	2.73 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
206861020	SAE-2-Surface	Thorium-232	2.2 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
207008001	SAE-34-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
207008002	SAE-35-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008002	SAE-35-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008003	SAE-36-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008003	SAE-36-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008004	SAE-37-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008005	SAE-38-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008005	SAE-38-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
207008006	SAE-39-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008007	SAE-40-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008008	SAE-41-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008009	SAE-42-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008010	SAE-43-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008010	SAE-43-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008011	SAE-44-Surface	Radium-226	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-6
DATA USABILITY EVALUATION FOR RADIONUCLIDES
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
207008011	SAE-44-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008012	SAE-44-Surface-FD	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
207008013	SAE-45-Surface	Uranium-233/234	<1 U	pCi/g	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
206861018	SAE-9-Surface	Thorium-232	1.08 J	pCi/g	1	Laboratory duplicate imprecision - 1.24.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	l Kjeldahl Nitrogen (T	62.3 J+	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238006	SAE-07-CAP	l Kjeldahl Nitrogen (T	83.1 J+	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238007	SAE-10-10	l Kjeldahl Nitrogen (T	70 J+	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238008	SAE-10-CAP	l Kjeldahl Nitrogen (T	95.2 J+	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354019	SAE-10-SURFACE	l Kjeldahl Nitrogen (T	197 J-	mg/kg	1	Low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	l Kjeldahl Nitrogen (T	<52.3 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	l Kjeldahl Nitrogen (T	< 51.5 UJ	mg/kg	1	Low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	l Kjeldahl Nitrogen (T	< 50.9 UJ	mg/kg	1	Low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354006	SAE-14-SURFACE	Perchlorate	3820 J+	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	l Kjeldahl Nitrogen (T	< 51.9 UJ	mg/kg	1	Low MS recovery - 73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Total Organic Carbon	8500 J	mg/kg	1	Field duplicate imprecision - 54% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	l Kjeldahl Nitrogen (T	< 53.1 UJ	mg/kg	1	Low MS recovery - 73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	Total Organic Carbon	4900 J	mg/kg	1	Field duplicate imprecision - 54% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241003	SAE-15-CAP	l Kjeldahl Nitrogen (T	< 52.3 UJ	mg/kg	1	Low MS recovery - 73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Perchlorate	448 J	ug/kg	1	Laboratory duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363001	SAE-1-SURFACE	Cyanide (Total)	< 0.5 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	l Kjeldahl Nitrogen (T	113 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354013	SAE-20-SURFACE	l Kjeldahl Nitrogen (T	<52.5 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	l Kjeldahl Nitrogen (T	< 52.4 UJ	mg/kg	1	Low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Sulfate	122 J	mg/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	l Kjeldahl Nitrogen (T	<53 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS recovery - 73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Total Organic Carbon	5200 J	mg/kg	1	Field duplicate imprecision - 69% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Sulfate	56.1 J	mg/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	l Kjeldahl Nitrogen (T	< 52.8 UJ	mg/kg	1	Low MS recovery - 73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Total Organic Carbon	10700 J	mg/kg	1	Field duplicate imprecision - 69% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272001	SAE-22-CAP	l Kjeldahl Nitrogen (T	<52.9 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354011	SAE-22-SURFACE	l Kjeldahl Nitrogen (T	<51.3 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363016	SAE-27-SURFACE	l Kjeldahl Nitrogen (T	44.1 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363017	SAE-28-SURFACE	l Kjeldahl Nitrogen (T	26 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	l Kjeldahl Nitrogen (T	58.5 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363002	SAE-2-SURFACE	Cyanide (Total)	< 0.5 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	l Kjeldahl Nitrogen (T	115 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363019	SAE-30-SURFACE	l Kjeldahl Nitrogen (T	205 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363008	SAE-31-SURFACE	l Kjeldahl Nitrogen (T	113 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	l Kjeldahl Nitrogen (T	47.7 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363010	SAE-33-SURFACE	l Kjeldahl Nitrogen (T	95.8 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	l Kjeldahl Nitrogen (T	<53 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363011	SAE-34-SURFACE	l Kjeldahl Nitrogen (T	51.9 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363012	SAE-35-SURFACE	l Kjeldahl Nitrogen (T	63.9 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363013	SAE-36-SURFACE	l Kjeldahl Nitrogen (T	51.6 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Cyanide (Total)	<0.53 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310001	SAE-37-SURFACE	Ammonia	<5.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	l Kjeldahl Nitrogen (T	96.4 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272004	SAE-38-10	Chloride	299 J	mg/kg	1	Field duplicate imprecision - absolute difference = 200.8	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Nitrate (as N)	5.5 J	mg/kg	1	Field duplicate imprecision - 75% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Perchlorate	3570 J	ug/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Chloride	98.2 J	mg/kg	1	Field duplicate imprecision - absolute difference = 200.8	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Nitrate (as N)	2.5 J	mg/kg	1	Field duplicate imprecision - 75% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272005	SAE-38-10-DUP	Perchlorate	1650 J	ug/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	l Kjeldahl Nitrogen (T	<53.2 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310002	SAE-38-SURFACE	Orthophosphate as P	<5.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310002	SAE-38-SURFACE	l Kjeldahl Nitrogen (T	116 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310003	SAE-39-SURFACE	Cyanide (Total)	< 0.51 R	mg/kg	1	Low MS recovery - 19%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Ammonia	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310003	SAE-39-SURFACE	l Kjeldahl Nitrogen (T	228 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	Cyanide (Total)	< 0.5 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	l Kjeldahl Nitrogen (T	116 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	l Kjeldahl Nitrogen (T	56.3 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272007	SAE-41-10	l Kjeldahl Nitrogen (T	<53.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Total Organic Carbon	<2 U	g/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310005	SAE-41-SURFACE	Orthophosphate as P	<5.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310005	SAE-41-SURFACE	Ammonia	<5.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310005	SAE-41-SURFACE	l Kjeldahl Nitrogen (T	89.4 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310006	SAE-42-SURFACE	Ammonia	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	l Kjeldahl Nitrogen (T	114 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272009	SAE-43-10	l Kjeldahl Nitrogen (T	<53.8 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D240272010	SAE-43-CAP	l Kjeldahl Nitrogen (T	<52.7 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D240272010	SAE-43-CAP	Total Organic Carbon	<2 U	g/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310007	SAE-43-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310007	SAE-43-SURFACE	l Kjeldahl Nitrogen (T	88.1 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310008	SAE-44-SURFACE	Fluoride	< 1 UJ	mg/kg	1	Field duplicate imprecision - absolute difference = 1.2	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Nitrite (as N)	0.43 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.25	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Ammonia	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310008	SAE-44-SURFACE	l Kjeldahl Nitrogen (T	5100 J	mg/kg	1	High MS recovery - 164%; field duplicate imprecision - absolute difference = 4979.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Fluoride	1.3 J	mg/kg	1	Field duplicate imprecision - absolute difference = 1.2	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Nitrite (as N)	0.18 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.25	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	l Kjeldahl Nitrogen (T	121 J	mg/kg	1	High MS recovery - 164%; field duplicate imprecision - absolute difference = 4979.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310010	SAE-45-SURFACE	Ammonia	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310010	SAE-45-SURFACE	l Kjeldahl Nitrogen (T	171 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Orthophosphate as P	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310011	SAE-46-SURFACE	Ammonia	<5.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310011	SAE-46-SURFACE	l Kjeldahl Nitrogen (T	153 J+	mg/kg	1	High MS recovery - 164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363004	SAE-4-SURFACE	Cyanide (Total)	< 0.51 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	l Kjeldahl Nitrogen (T	83.2 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	Cyanide (Total)	< 0.51 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363005	SAE-5-SURFACE	l Kjeldahl Nitrogen (T	76.5 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	Cyanide (Total)	0.17 J-	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	l Kjeldahl Nitrogen (T	77.4 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363007	SAE-7-SURFACE	Perchlorate	605 J	ug/kg	1	Laboratory duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	Cyanide (Total)	< 0.51 UJ	mg/kg	1	Low MS recovery - 31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-SURFACE	l Kjeldahl Nitrogen (T	167 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-7
DATA USABILITY EVALUATION FOR INORGANICS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Perchlorate	6530 J	ug/kg	1	Laboratory duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	l Kjeldahl Nitrogen (T	84.1 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363015	SAE-8-SURFACE-FD	Perchlorate	6080 J	ug/kg	1	Laboratory duplicate imprecision - 71% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	l Kjeldahl Nitrogen (T	70.1 J+	mg/kg	1	High MS/MSD recoveries - 150/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	l Kjeldahl Nitrogen (T	86 J-	mg/kg	1	Low MS/MSD recoveries - 66/43%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238005	SAE-07-10	Chromium (Total)	17.7 J-	mg/kg	1	Low MS Recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 37/35%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Titanium	339 J+	mg/kg	1	High MS/MSD recoveries - 255/295%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238005	SAE-07-10	Zinc	81.9 J-	mg/kg	1	Low MS recovery - 62%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Iron	10700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	Magnesium	6400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238005	SAE-07-10	Antimony	0.15 J-	mg/kg	1	Low MS/MSD recoveries - 60/59%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238005	SAE-07-10	Silver	0.3 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238005	SAE-07-10	Phosphorus (as P)	1300 J	mg/kg	1	Serial dilution violation; low MS/MSD recoveries - 38/69%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238005	SAE-07-10	Strontium	157 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 130/164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238006	SAE-07-CAP	Molybdenum	<1.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238006	SAE-07-CAP	Chromium (Total)	33.4 J-	mg/kg	1	Low MS Recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Niobium	< 7.1 UJ	mg/kg	1	Low MS/MSD recoveries - 37/35%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Titanium	623 J+	mg/kg	1	High MS/MSD recoveries - 255/295%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238006	SAE-07-CAP	Zinc	60.1 J-	mg/kg	1	Low MS recovery - 62%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Iron	19900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238006	SAE-07-CAP	Magnesium	32700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238006	SAE-07-CAP	Antimony	0.24 J-	mg/kg	1	Low MS/MSD recoveries - 60/59%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238006	SAE-07-CAP	Silver	0.15 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238006	SAE-07-CAP	Phosphorus (as P)	1150 J	mg/kg	1	Serial dilution violation; low MS/MSD recoveries - 38/69%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238006	SAE-07-CAP	Strontium	192 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 130/164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238007	SAE-10-10	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238007	SAE-10-10	Antimony	< 1.1 UJ	mg/kg	1	Low MS/MSD recoveries - 60/59%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238007	SAE-10-10	Chromium (Total)	6.8 J-	mg/kg	1	Low MS Recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 37/35%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Titanium	297 J+	mg/kg	1	High MS/MSD recoveries - 255/295%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238007	SAE-10-10	Zinc	34.7 J-	mg/kg	1	Low MS recovery - 62%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238007	SAE-10-10	Iron	11000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238007	SAE-10-10	Magnesium	5830 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238007	SAE-10-10	Silver	0.081 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238007	SAE-10-10	Phosphorus (as P)	1020 J	mg/kg	1	Serial dilution violation; low MS/MSD recoveries - 38/69%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238007	SAE-10-10	Strontium	168 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 130/164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238008	SAE-10-CAP	Sulfur	4790 J+	mg/kg	1	High MS recovery - 135%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238008	SAE-10-CAP	Molybdenum	<1.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D220238008	SAE-10-CAP	Antimony	< 1.4 UJ	mg/kg	1	Low MS/MSD recoveries - 60/59%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238008	SAE-10-CAP	Chromium (Total)	35.2 J-	mg/kg	1	Low MS Recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Niobium	< 7.2 UJ	mg/kg	1	Low MS/MSD recoveries - 37/35%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Titanium	560 J+	mg/kg	1	High MS/MSD recoveries - 255/295%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238008	SAE-10-CAP	Zinc	60.5 J-	mg/kg	1	Low MS recovery - 62%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D220238008	SAE-10-CAP	Iron	17700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238008	SAE-10-CAP	Magnesium	46500 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238008	SAE-10-CAP	Silver	0.17 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D220238008	SAE-10-CAP	Phosphorus (as P)	949 J	mg/kg	1	Serial dilution violation; low MS/MSD recoveries - 38/69%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238008	SAE-10-CAP	Strontium	148 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 130/164%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Sulfur	3690 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	Antimony	1.7 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Copper	20.3 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	Lead	86.4 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	Niobium	14.6 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354019	SAE-10-SURFACE	Silver	0.58 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	Zirconium	73.5 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354019	SAE-10-SURFACE	Aluminum	7060 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Calcium	43200 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354019	SAE-10-SURFACE	Iron	10900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Strontium	417 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Vanadium	77.2 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Magnesium	9200 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Phosphorus (as P)	1020 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Potassium	1910 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354018	SAE-11-SURFACE	Lithium	<26.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354018	SAE-11-SURFACE	Sulfur	1310 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354018	SAE-11-SURFACE	Copper	15.3 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	Lead	24.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354018	SAE-11-SURFACE	Zirconium	18.8 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	Aluminum	9610 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Calcium	19100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Iron	15700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Strontium	285 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Vanadium	49.8 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354018	SAE-11-SURFACE	Antimony	0.21 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354018	SAE-11-SURFACE	Silver	0.1 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354018	SAE-11-SURFACE	Magnesium	8250 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Phosphorus (as P)	1090 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Potassium	1970 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Lithium	<25.8 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	Thallium	<0.41 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354017	SAE-12-SURFACE	Copper	17.4 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354017	SAE-12-SURFACE	Lead	57.3 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354017	SAE-12-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Zirconium	19.7 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354017	SAE-12-SURFACE	Aluminum	7070 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	Calcium	13800 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Iron	14300 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Strontium	142 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Vanadium	44.9 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Antimony	0.24 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354017	SAE-12-SURFACE	Silver	0.1 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354017	SAE-12-SURFACE	Magnesium	7230 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Phosphorus (as P)	1030 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Potassium	1180 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Lithium	<25.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354016	SAE-13-SURFACE	Molybdenum	<1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354016	SAE-13-SURFACE	Copper	18.7 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Lead	45.8 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Zirconium	14.2 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	Aluminum	9980 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Calcium	7310 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Iron	12200 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Strontium	149 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Vanadium	47.1 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Antimony	0.2 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354016	SAE-13-SURFACE	Silver	0.13 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354016	SAE-13-SURFACE	Magnesium	6750 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Phosphorus (as P)	917 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Potassium	1570 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8H130253003	SAE-14R	Arsenic	25.4	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354006	SAE-14-SURFACE	Sulfur	2910 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354006	SAE-14-SURFACE	Antimony	9.5 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354006	SAE-14-SURFACE	Copper	63.8 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354006	SAE-14-SURFACE	Lead	440 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-SURFACE	Niobium	68 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354006	SAE-14-SURFACE	Silver	3.9 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354006	SAE-14-SURFACE	Zirconium	208 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354006	SAE-14-SURFACE	Aluminum	4690 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Calcium	33000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Iron	9530 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-SURFACE	Strontium	314 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Vanadium	446 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Magnesium	5850 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Phosphorus (as P)	640 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Potassium	1060 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-Surface	Arsenic	60.2	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Antimony	< 1 UJ	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241001	SAE-15-10	Arsenic	3.1 J+	mg/kg	1	High MS recovery - 125.4%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Chromium (Total)	10.3 J+	mg/kg	1	High MS Recovery - 194%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Copper	11.1 J+	mg/kg	1	High MS recovery - 150%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Nickel	11.6 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 42/51%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Phosphorus (as P)	881 J+	mg/kg	1	High MS/MSD recoveries - 135/163%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Potassium	2080 J+	mg/kg	1	High MS recovery - 149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Titanium	384 J+	mg/kg	1	High MS/MSD recoveries - 548/203%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Uranium	0.81 J+	mg/kg	1	High MS/MSD recoveries - 128/130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Vanadium	31.9 J+	mg/kg	1	High MS recovery - 144%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Palladium	0.49 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.61.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Strontium	255 J	mg/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241001	SAE-15-10	Barium	498 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 75% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241001	SAE-15-10	Manganese	267 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 67% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241001	SAE-15-10	Cadmium	0.095 J+	mg/kg	1	High MS/MSD recoveries - 142/139%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Molybdenum	0.38 J+	mg/kg	1	High MS/MSD recoveries - 132/131%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Silver	0.057 J+	mg/kg	1	High MS/MSD recoveries - 153/149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241001	SAE-15-10	Tin	0.34 J+	mg/kg	1	High MS/MSD recoveries - 133/133%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241001	SAE-15-10	Lead	9.3 J	mg/kg	1	Field duplicate imprecision - 62% RPD; high MS recovery - 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Arsenic	4 J+	mg/kg	1	High MS recovery - 125.4%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Chromium (Total)	9.8 J+	mg/kg	1	High MS Recovery - 194%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Copper	16.3 J+	mg/kg	1	High MS recovery - 150%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Nickel	11.2 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 42/51%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241002	SAE-15-10 DUP	Phosphorus (as P)	1420 J+	mg/kg	1	High MS/MSD recoveries - 135/163%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Potassium	2330 J+	mg/kg	1	High MS recovery - 149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Tin	0.44 J+	mg/kg	1	High MS/MSD recoveries - 133/133%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Titanium	524 J+	mg/kg	1	High MS/MSD recoveries - 548/203%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Uranium	1.1 J+	mg/kg	1	High MS/MSD recoveries - 128/130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	Vanadium	47.3 J+	mg/kg	1	High MS recovery - 144%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Palladium	1.1 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.61.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Strontium	557 J	mg/kg	1	Field duplicate imprecision - 74% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Barium	1100 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 75% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Manganese	535 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 67% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Antimony	0.18 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241002	SAE-15-10 DUP	Cadmium	0.094 J+	mg/kg	1	High MS/MSD recoveries - 142/139%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Molybdenum	0.7 J+	mg/kg	1	High MS/MSD recoveries - 132/131%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Silver	0.081 J+	mg/kg	1	High MS/MSD recoveries - 153/149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241002	SAE-15-10 DUP	Lead	17.7 J	mg/kg	1	Field duplicate imprecision - 62% RPD; high MS recovery - 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241003	SAE-15-CAP	Arsenic	5.9 J+	mg/kg	1	High MS recovery - 125.4%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Chromium (Total)	11.9 J+	mg/kg	1	High MS Recovery - 194%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Copper	12.7 J+	mg/kg	1	High MS recovery - 150%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Lead	10.2 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Nickel	13.3 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 42/51%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Phosphorus (as P)	1180 J+	mg/kg	1	High MS/MSD recoveries - 135/163%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Potassium	3370 J+	mg/kg	1	High MS recovery - 149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Tin	0.43 J+	mg/kg	1	High MS/MSD recoveries - 133/133%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Titanium	653 J+	mg/kg	1	High MS/MSD recoveries - 548/203%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Uranium	1.1 J+	mg/kg	1	High MS/MSD recoveries - 128/130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Vanadium	31.2 J+	mg/kg	1	High MS recovery - 144%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Barium	1560 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241003	SAE-15-CAP	Manganese	318 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Antimony	0.17 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241003	SAE-15-CAP	Cadmium	0.076 J+	mg/kg	1	High MS/MSD recoveries - 142/139%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Molybdenum	0.75 J+	mg/kg	1	High MS/MSD recoveries - 132/131%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241003	SAE-15-CAP	Silver	0.069 J+	mg/kg	1	High MS/MSD recoveries - 153/149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8H130253004	SAE-15R	Arsenic	32.5	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354005	SAE-15-SURFACE	Lithium	<26.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	Antimony	1.3 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Copper	19.8 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354005	SAE-15-SURFACE	Lead	67.8 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354005	SAE-15-SURFACE	Niobium	15.9 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354005	SAE-15-SURFACE	Silver	0.54 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354005	SAE-15-SURFACE	Zirconium	70 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	Aluminum	5140 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Calcium	29900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Iron	9870 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Strontium	213 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Vanadium	238 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Magnesium	5230 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354005	SAE-15-SURFACE	Phosphorus (as P)	1030 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Potassium	1030 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-Surface	Arsenic	10.2	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H130253005	SAE-16R	Arsenic	29.7	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354004	SAE-16-SURFACE	Sulfur	1320 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354004	SAE-16-SURFACE	Antimony	1.8 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Copper	25.5 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	Lead	77.2 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354004	SAE-16-SURFACE	Niobium	18.4 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354004	SAE-16-SURFACE	Silver	0.69 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354004	SAE-16-SURFACE	Zirconium	84.8 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354004	SAE-16-SURFACE	Aluminum	7150 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Calcium	21100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	Iron	13100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Strontium	188 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Vanadium	169 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Magnesium	8150 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Phosphorus (as P)	1540 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Potassium	1410 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-Surface	Arsenic	12.6	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H140202001	SAE-17R	Arsenic	23.4	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8H140202002	SAE-17R-FD	Arsenic	23.3	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354003	SAE-17-SURFACE	Sulfur	2600 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354003	SAE-17-SURFACE	Antimony	4.8 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354003	SAE-17-SURFACE	Copper	41.6 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354003	SAE-17-SURFACE	Lead	215 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354003	SAE-17-SURFACE	Niobium	30.6 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354003	SAE-17-SURFACE	Silver	1.9 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354003	SAE-17-SURFACE	Zirconium	182 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354003	SAE-17-SURFACE	Aluminum	6650 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Calcium	20000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Iron	14000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Strontium	311 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354003	SAE-17-SURFACE	Vanadium	43.9 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Magnesium	7610 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Phosphorus (as P)	1140 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Potassium	1340 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-Surface	Arsenic	33.5	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170354002	SAE-18-SURFACE	Molybdenum	<1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	Copper	14.4 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354002	SAE-18-SURFACE	Lead	9.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354002	SAE-18-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Zirconium	13.9 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354002	SAE-18-SURFACE	Aluminum	7960 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Calcium	33700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	Iron	14300 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Strontium	226 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Vanadium	319 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Antimony	0.15 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354002	SAE-18-SURFACE	Silver	0.077 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354002	SAE-18-SURFACE	Magnesium	8050 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	Phosphorus (as P)	1190 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Potassium	1680 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Lithium	<26.2 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354001	SAE-19-SURFACE	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354001	SAE-19-SURFACE	Antimony	< 1.1 UJ	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Copper	9.2 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354001	SAE-19-SURFACE	Lead	27.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354001	SAE-19-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354001	SAE-19-SURFACE	Zirconium	9.8 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354001	SAE-19-SURFACE	Aluminum	4800 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Calcium	33400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Iron	9680 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354001	SAE-19-SURFACE	Strontium	166 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Vanadium	44.9 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Silver	0.051 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354001	SAE-19-SURFACE	Magnesium	5140 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Phosphorus (as P)	1030 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Potassium	779 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	Lithium	<50.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363001	SAE-1-SURFACE	Barium	345 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363001	SAE-1-SURFACE	Silicon	149 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363001	SAE-1-SURFACE	Strontium	161 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363001	SAE-1-SURFACE	Tungsten	1.1 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Antimony	0.13 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	Niobium	4.4 J-	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363001	SAE-1-SURFACE	Silver	0.11 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363001	SAE-1-SURFACE	Mercury	<33.6 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354013	SAE-20-SURFACE	Lithium	<26.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354013	SAE-20-SURFACE	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354013	SAE-20-SURFACE	Copper	15.7 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	Lead	18.2 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354013	SAE-20-SURFACE	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Zirconium	15 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354013	SAE-20-SURFACE	Aluminum	7020 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Calcium	34100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Iron	11000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	Strontium	192 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Vanadium	38.7 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Antimony	0.15 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354013	SAE-20-SURFACE	Silver	0.086 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354013	SAE-20-SURFACE	Magnesium	9290 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Phosphorus (as P)	1080 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354013	SAE-20-SURFACE	Potassium	1030 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Molybdenum	<1.1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354012	SAE-21-SURFACE	Copper	17.5 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	Lead	27 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	Zirconium	29.3 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	Aluminum	9740 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	Calcium	29800 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Iron	14500 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Strontium	231 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Vanadium	54.4 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Antimony	0.31 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354012	SAE-21-SURFACE	Niobium	3.8 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	Silver	0.15 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354012	SAE-21-SURFACE	Magnesium	10200 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Phosphorus (as P)	903 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Potassium	1520 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Arsenic	5.7 J+	mg/kg	1	High MS recovery - 125.4%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Cadmium	0.14 J+	mg/kg	1	High MS/MSD recoveries - 142/139%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241004	SAE-22-10	Copper	19.5 J+	mg/kg	1	High MS recovery - 150%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Nickel	16.5 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 42/51%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Phosphorus (as P)	1170 J+	mg/kg	1	High MS/MSD recoveries - 135/163%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Potassium	1630 J+	mg/kg	1	High MS recovery - 149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Tin	0.54 J+	mg/kg	1	High MS/MSD recoveries - 133/133%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241004	SAE-22-10	Titanium	626 J+	mg/kg	1	High MS/MSD recoveries - 548/203%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Uranium	1.8 J+	mg/kg	1	High MS/MSD recoveries - 128/130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Vanadium	50.1 J+	mg/kg	1	High MS recovery - 144%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Calcium	43800 J	mg/kg	1	Field duplicate imprecision - 93% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Barium	674 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 58% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Manganese	1470 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 66% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241004	SAE-22-10	Antimony	0.21 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241004	SAE-22-10	Molybdenum	0.67 J+	mg/kg	1	High MS/MSD recoveries - 132/131%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Silver	0.095 J+	mg/kg	1	High MS/MSD recoveries - 153/149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241004	SAE-22-10	Chromium (Total)	15.4 J	mg/kg	1	Field duplicate imprecision - absolute difference = 7.4; high MS recovery - 194%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Lead	25.3 J	mg/kg	1	Field duplicate imprecision - 63% RPD; high MS recovery - 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Arsenic	3.8 J+	mg/kg	1	High MS recovery - 125.4%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Copper	15 J+	mg/kg	1	High MS recovery - 150%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Nickel	12.5 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 42/51%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Phosphorus (as P)	1750 J+	mg/kg	1	High MS/MSD recoveries - 135/163%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Potassium	1020 J+	mg/kg	1	High MS recovery - 149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Tin	0.42 J+	mg/kg	1	High MS/MSD recoveries - 133/133%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Titanium	417 J+	mg/kg	1	High MS/MSD recoveries - 548/203%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Uranium	1.3 J+	mg/kg	1	High MS/MSD recoveries - 128/130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Vanadium	39.1 J+	mg/kg	1	High MS recovery - 144%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Calcium	16000 J	mg/kg	1	Field duplicate imprecision - 93% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Barium	371 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 58% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Manganese	740 J	mg/kg	1	Serial dilution violation; field duplicate imprecision - 66% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	Antimony	0.16 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D230241005	SAE-22-10-DUP	Cadmium	0.1 J+	mg/kg	1	High MS/MSD recoveries - 142/139%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Molybdenum	0.6 J+	mg/kg	1	High MS/MSD recoveries - 132/131%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Silver	0.071 J+	mg/kg	1	High MS/MSD recoveries - 153/149%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D230241005	SAE-22-10-DUP	Chromium (Total)	8 J	mg/kg	1	Field duplicate imprecision - absolute difference = 7.4; high MS recovery - 194%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Lead	13.2 J	mg/kg	1	Field duplicate imprecision - 63% RPD; high MS recovery - 134%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272001	SAE-22-CAP	Barium	148 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Chromium (Total)	12.3 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Magnesium	6020 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Niobium	< 5.3 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272001	SAE-22-CAP	Silicon	182 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272001	SAE-22-CAP	Sodium	782 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272001	SAE-22-CAP	Titanium	321 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272001	SAE-22-CAP	Aluminum	6710 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272001	SAE-22-CAP	Potassium	2250 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272001	SAE-22-CAP	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Lithium	<25.6 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354011	SAE-22-SURFACE	Thallium	<0.41 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	Copper	16.3 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354011	SAE-22-SURFACE	Lead	41.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354011	SAE-22-SURFACE	Zirconium	24.1 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354011	SAE-22-SURFACE	Aluminum	6990 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Calcium	28300 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Iron	12900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	Strontium	122 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Vanadium	90.5 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Antimony	0.25 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Niobium	3.5 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354011	SAE-22-SURFACE	Silver	0.12 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354011	SAE-22-SURFACE	Magnesium	7800 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354011	SAE-22-SURFACE	Phosphorus (as P)	1310 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Potassium	1130 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Lithium	<26 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354010	SAE-23-SURFACE	Thallium	<0.42 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354010	SAE-23-SURFACE	Copper	25.2 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	Lead	49 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Zirconium	30.7 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	Aluminum	7420 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Calcium	20400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Iron	12900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Strontium	110 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Vanadium	103 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Antimony	0.37 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Niobium	4.5 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354010	SAE-23-SURFACE	Silver	0.15 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354010	SAE-23-SURFACE	Magnesium	8310 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Phosphorus (as P)	1270 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Potassium	1150 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354009	SAE-24-SURFACE	Lithium	<25.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354009	SAE-24-SURFACE	Molybdenum	<1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354009	SAE-24-SURFACE	Thallium	<0.41 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354009	SAE-24-SURFACE	Copper	13.8 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	Lead	22.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354009	SAE-24-SURFACE	Zirconium	18.6 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	Aluminum	7850 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Calcium	15400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Iron	12900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Strontium	147 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Vanadium	37.7 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354009	SAE-24-SURFACE	Antimony	0.2 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354009	SAE-24-SURFACE	Silver	0.098 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354009	SAE-24-SURFACE	Magnesium	7110 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Phosphorus (as P)	1290 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Potassium	1300 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Lithium	<26 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Molybdenum	<1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354007	SAE-25-SURFACE	Thallium	<0.42 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354007	SAE-25-SURFACE	Copper	21 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354007	SAE-25-SURFACE	Lead	21.8 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354007	SAE-25-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354007	SAE-25-SURFACE	Zirconium	25.3 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Aluminum	8290 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Calcium	15300 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Iron	15000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Strontium	182 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Vanadium	78.6 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Antimony	0.2 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Silver	0.13 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354007	SAE-25-SURFACE	Magnesium	8170 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Phosphorus (as P)	1190 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Potassium	1360 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Lithium	<26 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354008	SAE-26-SURFACE	Molybdenum	<1 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354008	SAE-26-SURFACE	Copper	14.1 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	Lead	16.1 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Zirconium	18.5 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	Aluminum	6930 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Calcium	16100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354008	SAE-26-SURFACE	Iron	13200 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Strontium	122 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Vanadium	70.6 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Antimony	0.18 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354008	SAE-26-SURFACE	Silver	0.09 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354008	SAE-26-SURFACE	Magnesium	8320 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354008	SAE-26-SURFACE	Phosphorus (as P)	1010 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Potassium	1160 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363016	SAE-27-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Barium	314 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363016	SAE-27-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Silicon	146 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363016	SAE-27-SURFACE	Strontium	186 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363016	SAE-27-SURFACE	Tungsten	2.2 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363016	SAE-27-SURFACE	Silver	0.089 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363016	SAE-27-SURFACE	Mercury	<34.6 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363017	SAE-28-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Barium	404 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363017	SAE-28-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Silicon	143 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363017	SAE-28-SURFACE	Strontium	185 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363017	SAE-28-SURFACE	Tungsten	3.4 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363017	SAE-28-SURFACE	Silver	0.093 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363017	SAE-28-SURFACE	Mercury	<34.4 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363018	SAE-29-SURFACE	Lithium	<53 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363018	SAE-29-SURFACE	Sulfur	1100 J+	mg/kg	1	Calibration violation; high percent difference in the interference check sample; high MS/MSD recoveries - 141/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	Antimony	< 1.1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Barium	364 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Silicon	140 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363018	SAE-29-SURFACE	Strontium	220 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	Tungsten	0.83 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363018	SAE-29-SURFACE	Silver	0.1 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363018	SAE-29-SURFACE	Mercury	<35.3 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363002	SAE-2-SURFACE	Lithium	<25.2 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363002	SAE-2-SURFACE	Barium	336 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363002	SAE-2-SURFACE	Niobium	< 5 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Silicon	159 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363002	SAE-2-SURFACE	Strontium	141 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363002	SAE-2-SURFACE	Tungsten	1.3 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Antimony	0.18 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363002	SAE-2-SURFACE	Silver	0.12 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363002	SAE-2-SURFACE	Mercury	<33.6 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363019	SAE-30-SURFACE	Sulfur	1180 J+	mg/kg	1	Calibration violation; high percent difference in the interference check sample; high MS/MSD recoveries - 141/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363019	SAE-30-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Barium	296 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363019	SAE-30-SURFACE	Niobium	< 5.2 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Silicon	173 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363019	SAE-30-SURFACE	Strontium	158 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363019	SAE-30-SURFACE	Tungsten	< 1 UJ	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363019	SAE-30-SURFACE	Silver	0.055 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363019	SAE-30-SURFACE	Mercury	<34.7 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363008	SAE-31-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Barium	261 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363008	SAE-31-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363008	SAE-31-SURFACE	Silicon	164 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363008	SAE-31-SURFACE	Strontium	135 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363008	SAE-31-SURFACE	Silver	0.076 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363008	SAE-31-SURFACE	Mercury	<33.8 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363009	SAE-32-SURFACE	Lithium	<25.7 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363009	SAE-32-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Barium	307 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363009	SAE-32-SURFACE	Silicon	145 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	Strontium	158 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	Tungsten	11.8 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363009	SAE-32-SURFACE	Silver	0.092 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	Mercury	<34.3 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363010	SAE-33-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Barium	238 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363010	SAE-33-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Silicon	156 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363010	SAE-33-SURFACE	Strontium	110 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363010	SAE-33-SURFACE	Tungsten	< 1 UJ	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363010	SAE-33-SURFACE	Silver	0.092 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363010	SAE-33-SURFACE	Mercury	<34.1 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D240272002	SAE-34-10	Barium	180 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Chromium (Total)	9.7 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	Magnesium	8440 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Niobium	< 5.3 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Silicon	122 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272002	SAE-34-10	Sodium	857 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272002	SAE-34-10	Titanium	336 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272002	SAE-34-10	Aluminum	6120 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	Potassium	1010 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272002	SAE-34-10	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272003	SAE-34-CAP	Sulfur	2740 J+	mg/kg	1	High MS recovery - 126%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272003	SAE-34-CAP	Barium	148 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Magnesium	46000 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Niobium	< 30.1 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272003	SAE-34-CAP	Silicon	179 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272003	SAE-34-CAP	Sodium	704 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272003	SAE-34-CAP	Titanium	144 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272003	SAE-34-CAP	Aluminum	8090 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272003	SAE-34-CAP	Potassium	3470 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272003	SAE-34-CAP	Antimony	<1.2 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272003	SAE-34-CAP	Chromium (Total)	<12 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363011	SAE-34-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Barium	211 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Silicon	133 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	Strontium	79.7 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363011	SAE-34-SURFACE	Tungsten	2.8 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363011	SAE-34-SURFACE	Silver	0.063 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363011	SAE-34-SURFACE	Mercury	<33.9 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363012	SAE-35-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Barium	253 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363012	SAE-35-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363012	SAE-35-SURFACE	Silicon	150 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363012	SAE-35-SURFACE	Strontium	177 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363012	SAE-35-SURFACE	Tungsten	< 1 UJ	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363012	SAE-35-SURFACE	Silver	0.08 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363012	SAE-35-SURFACE	Mercury	<34 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363013	SAE-36-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363013	SAE-36-SURFACE	Barium	294 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363013	SAE-36-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Silicon	181 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363013	SAE-36-SURFACE	Strontium	276 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363013	SAE-36-SURFACE	Tungsten	< 1 UJ	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363013	SAE-36-SURFACE	Silver	0.098 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363013	SAE-36-SURFACE	Mercury	<33.8 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310001	SAE-37-SURFACE	Lithium	<106 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310001	SAE-37-SURFACE	Antimony	< 1.1 UJ	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Barium	334 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Cadmium	0.15 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Chromium (Total)	5.8 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Copper	13.5 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Magnesium	8790 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Niobium	< 5.3 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310001	SAE-37-SURFACE	Palladium	0.68 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Phosphorus (as P)	1600 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Silicon	161 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Titanium	401 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Zinc	36.3 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310001	SAE-37-SURFACE	Aluminum	9710 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310001	SAE-37-SURFACE	Iron	13500 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310001	SAE-37-SURFACE	Strontium	362 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310001	SAE-37-SURFACE	Silver	0.085 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Potassium	1750 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Barium	154 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Chromium (Total)	11.4 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Niobium	< 6.6 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272004	SAE-38-10	Silicon	144 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272004	SAE-38-10	Sodium	702 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272004	SAE-38-10	Titanium	439 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272004	SAE-38-10	Aluminum	7790 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Potassium	1160 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Magnesium	10700 J	mg/kg	1	Field duplicate imprecision - 59%; low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Barium	242 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272005	SAE-38-10-DUP	Chromium (Total)	10.7 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Niobium	< 5.3 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Silicon	139 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272005	SAE-38-10-DUP	Sodium	576 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272005	SAE-38-10-DUP	Titanium	321 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272005	SAE-38-10-DUP	Aluminum	6120 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272005	SAE-38-10-DUP	Potassium	1150 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Magnesium	5800 J	mg/kg	1	Field duplicate imprecision - 59%; low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272006	SAE-38-CAP	Sulfur	1950 J+	mg/kg	1	High MS recovery - 126%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272006	SAE-38-CAP	Antimony	< 1.7 UJ	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Barium	24.6 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272006	SAE-38-CAP	Magnesium	37400 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Niobium	< 41.5 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Silicon	391 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272006	SAE-38-CAP	Sodium	675 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272006	SAE-38-CAP	Titanium	226 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272006	SAE-38-CAP	Aluminum	10500 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272006	SAE-38-CAP	Potassium	4200 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272006	SAE-38-CAP	Chromium (Total)	<16.6 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Lithium	<27 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310002	SAE-38-SURFACE	Barium	367 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Cadmium	0.17 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Chromium (Total)	9.9 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	Copper	16.5 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Magnesium	10100 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Niobium	< 5.4 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310002	SAE-38-SURFACE	Palladium	0.47 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Phosphorus (as P)	1510 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Silicon	185 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	Titanium	599 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Zinc	45.4 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Aluminum	10200 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Iron	16400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Strontium	220 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Antimony	0.18 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310002	SAE-38-SURFACE	Silver	0.12 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310002	SAE-38-SURFACE	Potassium	1890 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Mercury	<36.1 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310003	SAE-39-SURFACE	Lithium	<25.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310003	SAE-39-SURFACE	Barium	419 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Cadmium	0.21 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Chromium (Total)	12.9 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Copper	17.5 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Magnesium	9190 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Palladium	0.54 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Phosphorus (as P)	1920 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Silicon	158 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Titanium	657 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Zinc	45.8 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Aluminum	8680 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	Iron	15100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	Strontium	224 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Antimony	0.23 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310003	SAE-39-SURFACE	Silver	0.14 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310003	SAE-39-SURFACE	Potassium	1610 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	Mercury	<34 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363003	SAE-3-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Barium	338 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363003	SAE-3-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Silicon	133 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	Strontium	147 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	Tungsten	0.84 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363003	SAE-3-SURFACE	Silver	0.097 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363003	SAE-3-SURFACE	Mercury	<33.7 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Lithium	<25.6 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310004	SAE-40-SURFACE	Barium	348 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Cadmium	0.22 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Chromium (Total)	13 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Copper	112 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Magnesium	10500 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Palladium	0.73 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Phosphorus (as P)	1300 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Silicon	130 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Titanium	611 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Zinc	97.6 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Aluminum	11800 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310004	SAE-40-SURFACE	Iron	17700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310004	SAE-40-SURFACE	Strontium	312 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310004	SAE-40-SURFACE	Antimony	0.21 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310004	SAE-40-SURFACE	Silver	0.11 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310004	SAE-40-SURFACE	Potassium	3020 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310004	SAE-40-SURFACE	Mercury	<34.2 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D240272007	SAE-41-10	Barium	455 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Chromium (Total)	15.5 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Magnesium	7210 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Niobium	< 6.7 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Silicon	180 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272007	SAE-41-10	Sodium	994 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272007	SAE-41-10	Titanium	439 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272007	SAE-41-10	Aluminum	7660 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272007	SAE-41-10	Potassium	1190 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272007	SAE-41-10	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272008	SAE-41-CAP	Barium	214 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Chromium (Total)	10.1 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Magnesium	8810 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Niobium	< 5.4 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Silicon	149 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272008	SAE-41-CAP	Sodium	572 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272008	SAE-41-CAP	Titanium	273 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Aluminum	6360 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272008	SAE-41-CAP	Potassium	2080 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272008	SAE-41-CAP	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Lithium	<27.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310005	SAE-41-SURFACE	Barium	363 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Cadmium	0.56 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310005	SAE-41-SURFACE	Chromium (Total)	16 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Copper	22.3 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Magnesium	12000 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Niobium	< 5.5 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Palladium	0.73 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Phosphorus (as P)	1550 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310005	SAE-41-SURFACE	Silicon	152 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Titanium	689 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Zinc	72.9 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Aluminum	11900 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Iron	19700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Strontium	343 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310005	SAE-41-SURFACE	Antimony	0.22 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310005	SAE-41-SURFACE	Silver	0.16 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310005	SAE-41-SURFACE	Potassium	2320 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Mercury	<36.5 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8H150260001	SAE-42R	Arsenic	11.4 J+	mg/kg	2	High MS/MSD recoveries - 183/198%; soil removed at this location.	The soil at this location was removed and the location was resampled.
F8D180310006	SAE-42-SURFACE	Lithium	<25.4 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Barium	1570 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Cadmium	0.52 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Chromium (Total)	44.2 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Copper	58.6 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Magnesium	11100 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Palladium	1.3 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Phosphorus (as P)	1200 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Silicon	151 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Titanium	1310 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Zinc	143 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Aluminum	11600 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Iron	18400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	Strontium	472 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	Antimony	0.31 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310006	SAE-42-SURFACE	Platinum	0.15 J+	mg/kg	1	High MS recovery - 136%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Silver	0.3 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310006	SAE-42-SURFACE	Potassium	2340 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Mercury	<33.9 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310006	SAE-42-Surface	Arsenic	48.1	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D240272009	SAE-43-10	Sulfur	1930 J+	mg/kg	1	High MS recovery - 126%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272009	SAE-43-10	Antimony	< 1.1 UJ	mg/kg	1	Low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Barium	284 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Chromium (Total)	10.3 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272009	SAE-43-10	Magnesium	7100 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Niobium	< 5.4 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Silicon	167 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272009	SAE-43-10	Sodium	568 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272009	SAE-43-10	Titanium	352 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272009	SAE-43-10	Aluminum	6690 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272009	SAE-43-10	Potassium	996 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272010	SAE-43-CAP	Barium	368 J-	mg/kg	1	Low MS recovery - 54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Chromium (Total)	11.6 J-	mg/kg	1	Low MS/MSD Recoveries - 70/73%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Magnesium	6320 J-	mg/kg	1	Low MS recovery - 60%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Niobium	< 5.3 UJ	mg/kg	1	Low MS recovery - 41%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Silicon	204 J+	mg/kg	1	High MS/MSD recoveries - 247/266%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272010	SAE-43-CAP	Sodium	781 J-	mg/kg	1	Low MS recovery - 71%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D240272010	SAE-43-CAP	Titanium	304 J+	mg/kg	1	High MS recovery - 162%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D240272010	SAE-43-CAP	Aluminum	6030 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272010	SAE-43-CAP	Potassium	1540 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272010	SAE-43-CAP	Antimony	<1.1 UJ	mg/kg	1	Result anomalous due to blank contamination; low MS/MSD recoveries - 65/65%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Lithium	<25.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310007	SAE-43-SURFACE	Barium	416 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Cadmium	0.11 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Chromium (Total)	9.2 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Copper	15.4 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Magnesium	9840 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310007	SAE-43-SURFACE	Palladium	0.62 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Phosphorus (as P)	1500 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Silicon	149 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Titanium	593 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Zinc	41 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Aluminum	10700 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310007	SAE-43-SURFACE	Iron	16400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Strontium	315 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Antimony	0.15 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310007	SAE-43-SURFACE	Silver	0.1 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310007	SAE-43-SURFACE	Potassium	2490 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Mercury	<34 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Lithium	<102 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310008	SAE-44-SURFACE	Barium	503 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Cadmium	0.17 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Chromium (Total)	13.2 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Copper	18.3 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Magnesium	10000 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Palladium	0.55 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Phosphorus (as P)	1300 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Silicon	150 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Titanium	609 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310008	SAE-44-SURFACE	Zinc	51.1 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Aluminum	10300 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Iron	16800 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Strontium	258 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Lead	45.1 J	mg/kg	1	Field duplicate imprecision - 60% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Antimony	0.48 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310008	SAE-44-SURFACE	Silver	0.13 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310008	SAE-44-SURFACE	Potassium	2160 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Mercury	<33.8 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310009	SAE-44-SURFACE-FD	Lithium	<25.5 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310009	SAE-44-SURFACE-FD	Barium	421 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Cadmium	0.14 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Chromium (Total)	12.9 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Copper	17.7 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Magnesium	9610 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Palladium	0.53 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Phosphorus (as P)	1340 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Silicon	144 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Titanium	538 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Zinc	46.3 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Aluminum	9650 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Iron	17400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Strontium	244 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Lead	84.1 J	mg/kg	1	Field duplicate imprecision - 60% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Antimony	0.47 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310009	SAE-44-SURFACE-FD	Silver	0.12 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310009	SAE-44-SURFACE-FD	Potassium	2100 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Lithium	<25.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310010	SAE-45-SURFACE	Barium	967 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Cadmium	0.8 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310010	SAE-45-SURFACE	Chromium (Total)	16.9 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Copper	22.7 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Magnesium	10800 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Palladium	0.52 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Phosphorus (as P)	1350 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310010	SAE-45-SURFACE	Silicon	161 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Titanium	691 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Zinc	62.3 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Aluminum	10500 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Iron	18100 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Strontium	248 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310010	SAE-45-SURFACE	Antimony	0.83 J-	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310010	SAE-45-SURFACE	Silver	0.17 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310010	SAE-45-SURFACE	Potassium	1960 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310011	SAE-46-SURFACE	Lithium	<102 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310011	SAE-46-SURFACE	Sulfur	2100 J+	mg/kg	1	Calibration violation; high MS/MSD recoveries - 131/137%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS recovery - 66%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Barium	175 J-	mg/kg	1	Low MS/MSD recoveries - -30/2.7%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Cadmium	0.13 J+	mg/kg	1	High MS recovery - 128%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Chromium (Total)	9.4 J+	mg/kg	1	High MS Recovery - 129%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Copper	16.8 J+	mg/kg	1	High MS recovery - 134%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Magnesium	11300 J-	mg/kg	1	Low MS recovery - 8%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D180310011	SAE-46-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 41/32%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Palladium	0.52 J+	mg/kg	1	High MS recovery - 131%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Phosphorus (as P)	1440 J	mg/kg	1	High MS/MSD recoveries - 158/73%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Silicon	153 J+	mg/kg	1	High MS/MSD recoveries - 517/462%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Titanium	465 J+	mg/kg	1	High MS/MSD recoveries - 259/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Zinc	43.2 J+	mg/kg	1	High MS recovery - 125.3%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Aluminum	8360 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310011	SAE-46-SURFACE	Iron	14400 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310011	SAE-46-SURFACE	Strontium	262 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310011	SAE-46-SURFACE	Silver	0.096 J+	mg/kg	1	High MS recovery - 141%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D180310011	SAE-46-SURFACE	Potassium	1520 J	mg/kg	1	Serial dilution violation; low MS recovery - 68%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363004	SAE-4-SURFACE	Lithium	<25.6 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363004	SAE-4-SURFACE	Barium	420 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	Silicon	146 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363004	SAE-4-SURFACE	Strontium	164 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363004	SAE-4-SURFACE	Tungsten	1.2 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Antimony	0.16 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Niobium	3.3 J-	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363004	SAE-4-SURFACE	Silver	0.12 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	Mercury	<34.1 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363005	SAE-5-SURFACE	Barium	433 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Silicon	144 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	Strontium	98.2 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	Tungsten	1.1 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363005	SAE-5-SURFACE	Antimony	0.35 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363005	SAE-5-SURFACE	Silver	0.17 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363005	SAE-5-SURFACE	Mercury	<34 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363006	SAE-6-SURFACE	Lithium	<25.3 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363006	SAE-6-SURFACE	Barium	650 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	Niobium	13 J-	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363006	SAE-6-SURFACE	Silicon	145 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	Strontium	141 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	Tungsten	6.4 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Antimony	0.91 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363006	SAE-6-SURFACE	Silver	0.51 J+	mg/kg	1	High MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363006	SAE-6-SURFACE	Mercury	<33.8 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	Lithium	<25.6 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363007	SAE-7-SURFACE	Sulfur	2410 J+	mg/kg	1	High percent difference in the interference check sample; high MS/MSD recoveries - 141/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	Antimony	4.9 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-SURFACE	Barium	2180 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363007	SAE-7-SURFACE	Niobium	21.9 J-	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-SURFACE	Silicon	130 J+	mg/kg	1	High MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363007	SAE-7-SURFACE	Strontium	178 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363007	SAE-7-SURFACE	Tungsten	26.9 J-	mg/kg	1	Low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363007	SAE-7-SURFACE	Silver	2 J+	mg/kg	1	High MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363007	SAE-7-Surface	Arsenic	34.5	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.
F8D170363014	SAE-8-SURFACE	Sulfur	1750 J+	mg/kg	1	Calibration violation; high percent difference in the interference check sample; high MS/MSD recoveries - 141/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363014	SAE-8-SURFACE	Antimony	< 1 UJ	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Barium	310 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363014	SAE-8-SURFACE	Niobium	< 5.1 UJ	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363014	SAE-8-SURFACE	Strontium	176 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363014	SAE-8-SURFACE	Arsenic	2.2 J	mg/kg	1	Field duplicate imprecision - absolute difference = 2.8.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Chromium (Total)	6.6 J	mg/kg	1	Field duplicate imprecision - absolute difference = 10.3.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Copper	9 J	mg/kg	1	Field duplicate imprecision - absolute difference = 7.4.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Lead	10 J	mg/kg	1	Field duplicate imprecision - 89% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Sodium	1280 J	mg/kg	1	Field duplicate imprecision - 69% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Tin	< 0.41 UJ	mg/kg	1	Field duplicate imprecision - absolute difference = 0.99.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Uranium	0.49 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.34.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Vanadium	18.6 J	mg/kg	1	Field duplicate imprecision - 70% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Silver	0.05 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363014	SAE-8-SURFACE	Silicon	254 J	mg/kg	1	Field duplicate imprecision - absolute difference = 135; high MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Tungsten	< 1 UJ	mg/kg	1	Field duplicate imprecision - absolute difference = 1.39; low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Lithium	<25.6 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363015	SAE-8-SURFACE-FD	Sulfur	2470 J+	mg/kg	1	High MS/MSD recoveries - 141/142%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363015	SAE-8-SURFACE-FD	Barium	485 J+	mg/kg	1	High MS/MSD recoveries - 210/197%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363015	SAE-8-SURFACE-FD	Strontium	164 J+	mg/kg	1	High MS/MSD recoveries - 129/135%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	Arsenic	5 J	mg/kg	1	Field duplicate imprecision - absolute difference = 2.8.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Chromium (Total)	16.9 J	mg/kg	1	Field duplicate imprecision - absolute difference = 10.3.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Copper	16.4 J	mg/kg	1	Field duplicate imprecision - absolute difference = 7.4.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Lead	26 J	mg/kg	1	Field duplicate imprecision - 89% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Sodium	626 J	mg/kg	1	Field duplicate imprecision - 69% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Tin	1.3 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.99.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	Uranium	0.83 J	mg/kg	1	Field duplicate imprecision - absolute difference = 0.34.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Vanadium	38.5 J	mg/kg	1	Field duplicate imprecision - 70% RPD.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Antimony	0.27 J-	mg/kg	1	Low MS/MSD recoveries - 57/54%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Niobium	4.6 J-	mg/kg	1	Low MS/MSD recoveries - 39/34%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170363015	SAE-8-SURFACE-FD	Silver	0.18 J+	mg/kg	1	Calibration violation; high MS recovery - 126%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363015	SAE-8-SURFACE-FD	Silicon	119 J	mg/kg	1	Field duplicate imprecision - absolute difference = 135; high MS/MSD recoveries - 396/322%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	Tungsten	1.9 J	mg/kg	1	Field duplicate imprecision - absolute difference = 1.39; low MS recovery - 74%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Mercury	<34.1 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354020	SAE-9-SURFACE	Lithium	<102 U	mg/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354020	SAE-9-SURFACE	Sulfur	9470 J+	mg/kg	1	High MS/MSD recoveries - 152/183%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	Antimony	2.7 J-	mg/kg	1	Low MS/MSD recoveries - 64/61%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Copper	18.7 J+	mg/kg	1	High MS recovery - 146%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	Lead	120 J+	mg/kg	1	High MS recovery - 272%	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	Niobium	18.8 J-	mg/kg	1	Low MS/MSD recoveries - 30/31%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential low bias.
F8D170354020	SAE-9-SURFACE	Silver	0.74 J+	mg/kg	1	High MS recovery - 130%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	Zirconium	125 J+	mg/kg	1	High MS recovery - 127%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170354020	SAE-9-SURFACE	Aluminum	6060 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Calcium	52000 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	Iron	9970 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Strontium	497 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Vanadium	169 J	mg/kg	1	Serial dilution violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Magnesium	10600 J	mg/kg	1	Serial dilution violation; high MS/MSD recoveries - 192/145%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Phosphorus (as P)	794 J	mg/kg	1	Serial dilution violation; low MS recovery - 39%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Potassium	2770 J	mg/kg	1	Serial dilution violation; high MS recovery - 132%.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-8
DATA USABILITY EVALUATION FOR METALS
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-Surface	Arsenic	28.7	mg/kg	2	Soil was removed at this location.	The soil at this location was removed and the location was resampled.

Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238005	SAE-07-10	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238005	SAE-07-10	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238006	SAE-07-CAP	Acetonitrile	< 71 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238006	SAE-07-CAP	Ethanol	< 360 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238007	SAE-10-10	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238007	SAE-10-10	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D220238008	SAE-10-CAP	Acetonitrile	< 72 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D220238008	SAE-10-CAP	Ethanol	< 360 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354019	SAE-10-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354018	SAE-11-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354018	SAE-11-SURFACE	Acetone	<36 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354018	SAE-11-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354017	SAE-12-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354016	SAE-13-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354016	SAE-13-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354016	SAE-13-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354006	SAE-14-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354006	SAE-14-SURFACE	Acetone	<25 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D230241001	SAE-15-10	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241001	SAE-15-10	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241002	SAE-15-10 DUP	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241003	SAE-15-CAP	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241003	SAE-15-CAP	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354005	SAE-15-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354004	SAE-16-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354004	SAE-16-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354004	SAE-16-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354003	SAE-17-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354002	SAE-18-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354002	SAE-18-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354001	SAE-19-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354001	SAE-19-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363001	SAE-1-SURFACE	Acetonitrile	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363001	SAE-1-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363001	SAE-1-SURFACE	Acetone	<32 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363001	SAE-1-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354013	SAE-20-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354012	SAE-21-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354012	SAE-21-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D230241004	SAE-22-10	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241004	SAE-22-10	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D230241005	SAE-22-10-DUP	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D230241005	SAE-22-10-DUP	1-Nonanal	<11 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272001	SAE-22-CAP	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272001	SAE-22-CAP	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354011	SAE-22-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354010	SAE-23-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354010	SAE-23-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354009	SAE-24-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354009	SAE-24-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354007	SAE-25-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354007	SAE-25-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354007	SAE-25-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354008	SAE-26-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363016	SAE-27-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363016	SAE-27-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363016	SAE-27-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363017	SAE-28-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363017	SAE-28-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363017	SAE-28-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363018	SAE-29-SURFACE	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363018	SAE-29-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363002	SAE-2-SURFACE	Acetonitrile	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363002	SAE-2-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363019	SAE-30-SURFACE	Acetone	340 J	ug/kg	1	Calibration range exceeded.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363019	SAE-30-SURFACE	Acetonitrile	< 52 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363019	SAE-30-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363019	SAE-30-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363008	SAE-31-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363008	SAE-31-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363008	SAE-31-SURFACE	1-Nonanal	6.7 J+	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.
F8D170363009	SAE-32-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363009	SAE-32-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363009	SAE-32-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363010	SAE-33-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363010	SAE-33-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363010	SAE-33-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363010	SAE-33-SURFACE	1-Nonanal	5.3 J+	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Potential high bias.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272002	SAE-34-10	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272002	SAE-34-10	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272003	SAE-34-CAP	Acetonitrile	< 60 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272003	SAE-34-CAP	Ethanol	< 300 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363011	SAE-34-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363011	SAE-34-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363011	SAE-34-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363012	SAE-35-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363012	SAE-35-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363012	SAE-35-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363012	SAE-35-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363013	SAE-36-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363013	SAE-36-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363013	SAE-36-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310001	SAE-37-SURFACE	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310001	SAE-37-SURFACE	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310001	SAE-37-SURFACE	Acetone	<21 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310001	SAE-37-SURFACE	1-Nonanal	<11 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310001	SAE-37-SURFACE	Dichloromethane	20 X	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D240272004	SAE-38-10	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272004	SAE-38-10	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272005	SAE-38-10-DUP	1-Nonanal	<11 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272006	SAE-38-CAP	Acetonitrile	< 83 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272006	SAE-38-CAP	Ethanol	< 420 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Acetonitrile	< 54 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310002	SAE-38-SURFACE	Acetone	<30 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310002	SAE-38-SURFACE	1-Nonanal	<11 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310003	SAE-39-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310003	SAE-39-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310003	SAE-39-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363003	SAE-3-SURFACE	Acetonitrile	< 50 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363003	SAE-3-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363003	SAE-3-SURFACE	Acetone	<31 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310004	SAE-40-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310004	SAE-40-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272007	SAE-41-10	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272007	SAE-41-10	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272008	SAE-41-CAP	Acetonitrile	< 54 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D240272008	SAE-41-CAP	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Acetonitrile	< 55 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310005	SAE-41-SURFACE	Acetone	<22 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D180310005	SAE-41-SURFACE	1-Nonanal	<11 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310006	SAE-42-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310006	SAE-42-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272009	SAE-43-10	Acetonitrile	< 54 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272009	SAE-43-10	Ethanol	< 270 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272010	SAE-43-CAP	Acetonitrile	< 53 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D240272010	SAE-43-CAP	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Acetonitrile	< 51 X	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310007	SAE-43-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310007	SAE-43-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310008	SAE-44-SURFACE	Acetone	900 J	ug/kg	1	Field duplicate imprecision - absolute difference = 760.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D180310009	SAE-44-SURFACE-FD	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310009	SAE-44-SURFACE-FD	Acetone	140 J	ug/kg	1	Field duplicate imprecision - absolute difference = 760.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310010	SAE-45-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310011	SAE-46-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D180310011	SAE-46-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363004	SAE-4-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363004	SAE-4-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363005	SAE-5-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363005	SAE-5-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363005	SAE-5-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363006	SAE-6-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363006	SAE-6-SURFACE	Ethanol	< 250 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363006	SAE-6-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170363007	SAE-7-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363007	SAE-7-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363014	SAE-8-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170363015	SAE-8-SURFACE-FD	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170363015	SAE-8-SURFACE-FD	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.
F8D170354020	SAE-9-SURFACE	Acetonitrile	< 51 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Ethanol	< 260 UJ	ug/kg	1	Calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.
F8D170354020	SAE-9-SURFACE	Acetone	<20 U	ug/kg	1	Result anomalous due to blank contamination.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents.

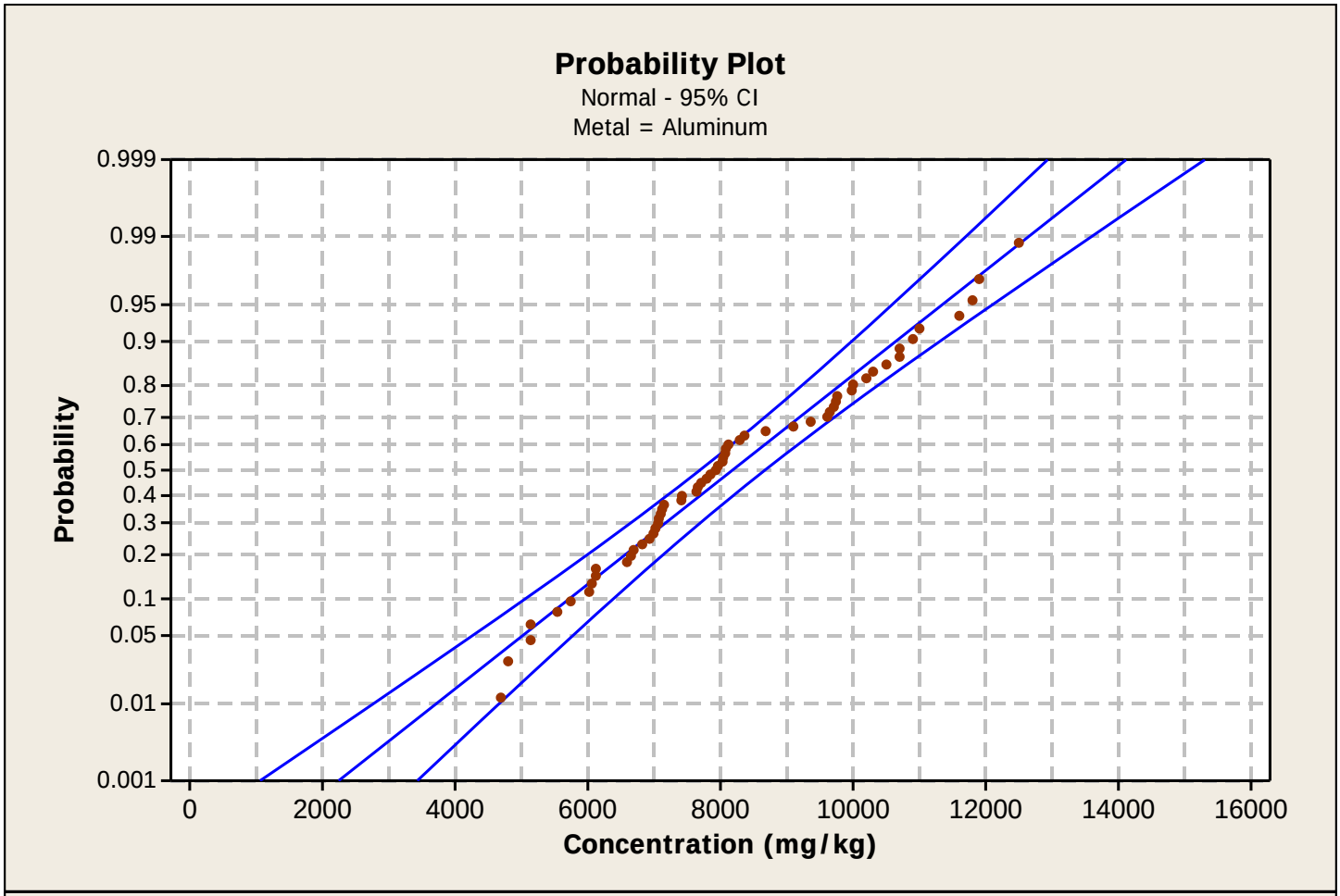
TABLE B-10
DATA USABILITY EVALUATION FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TECHNICAL MEMORANDUM – UTILITY CORRIDOR SUB-AREA DATA REVIEW/HRA
BMI COMMON AREAS (EASTSIDE) SITE, CLARK COUNTY, NEVADA

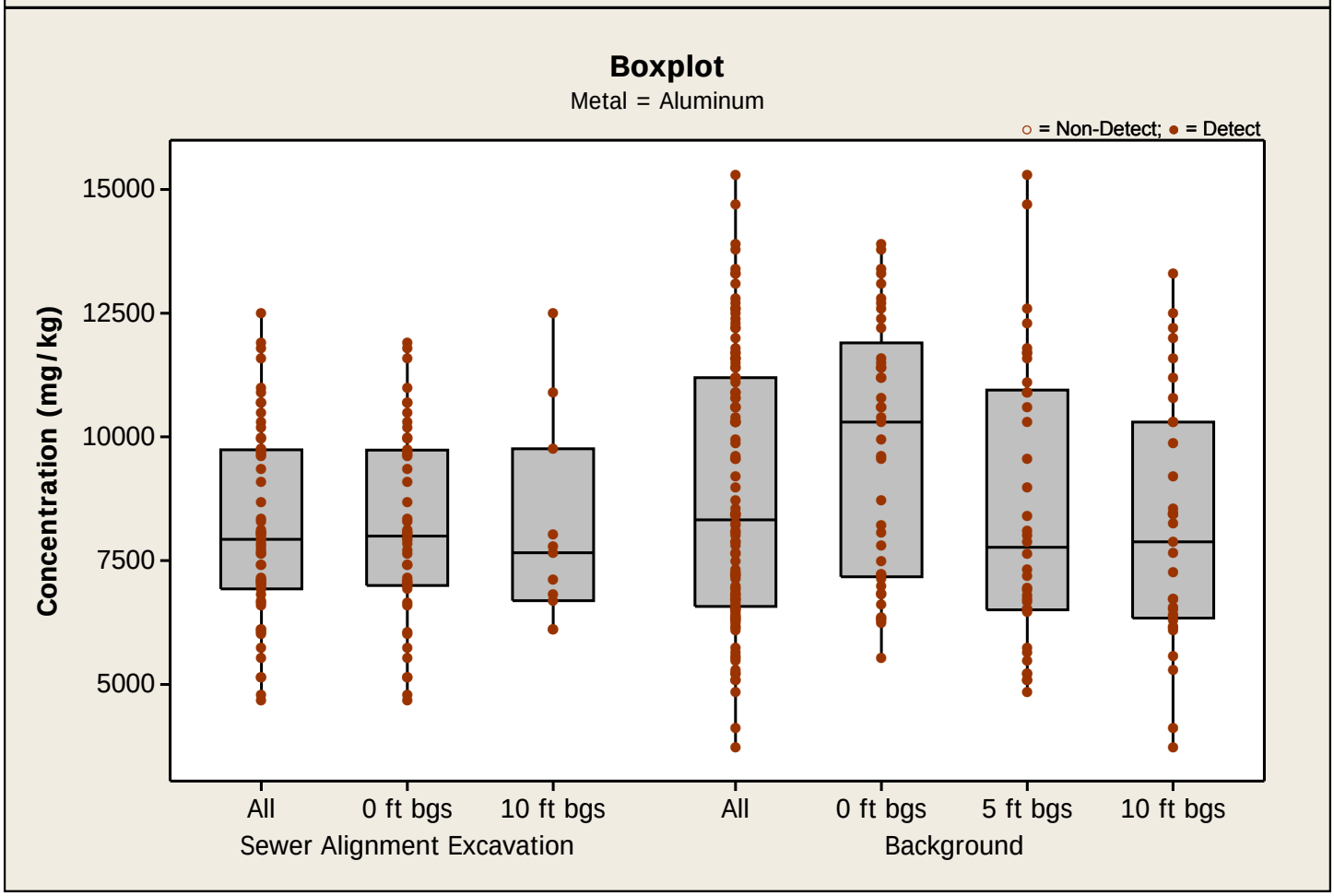
Lab Sample ID	Sample ID	Analyte	Result	Units	Category	Explanation	Reason of Inclusion/Exclusion
F8D170354020	SAE-9-SURFACE	1-Nonanal	<10 UJ	ug/kg	1	Result anomalous due to blank contamination; calibration violation.	The data as qualified are considered valid and acceptable for decision-making purposes. The data generated during this investigation is acceptable for the preparation of technically defensible documents. Direction of bias not determined.

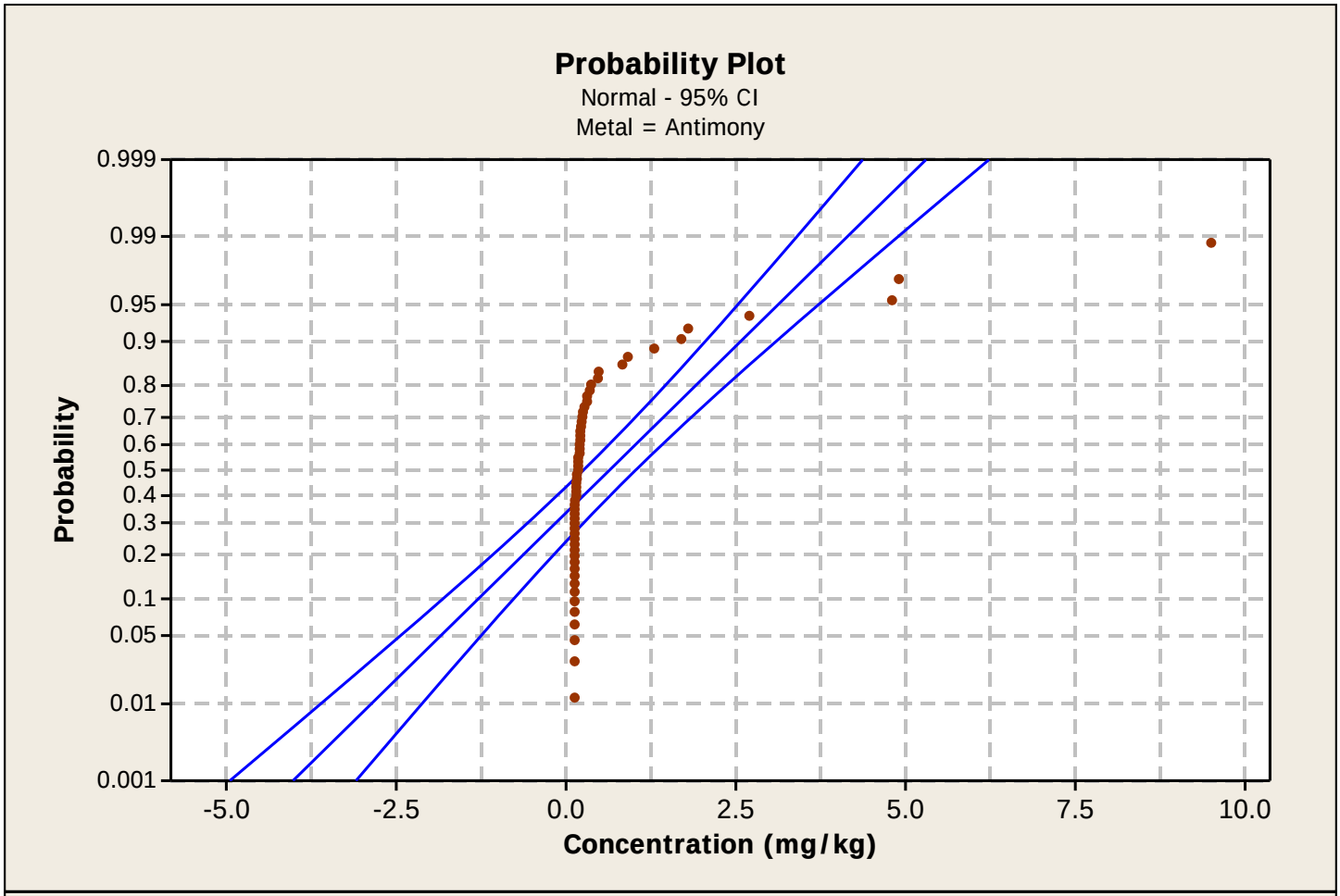
Category 1 - Data included in the risk assessment
Category 2 - Data excluded from the risk assessment

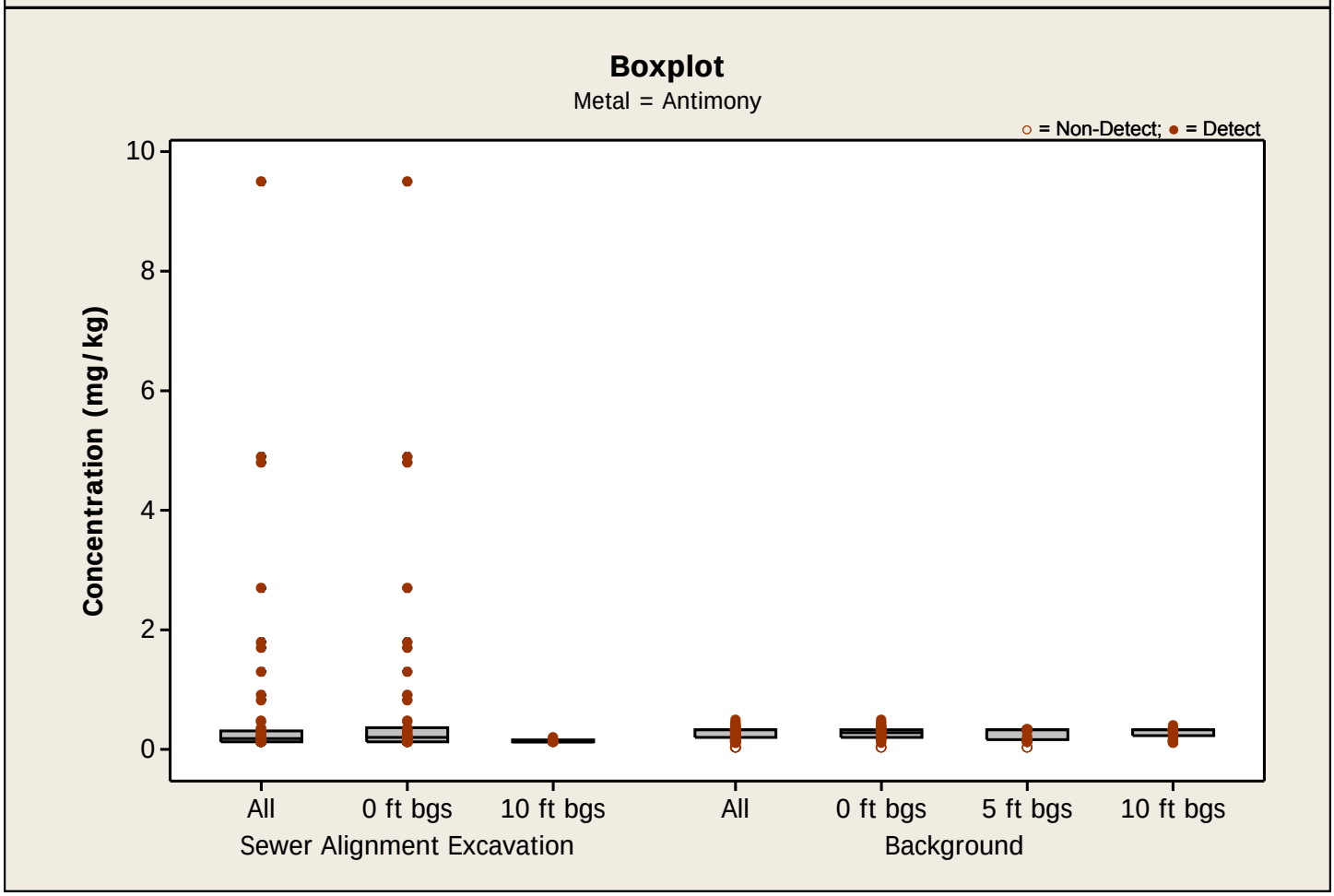
ATTACHMENT C

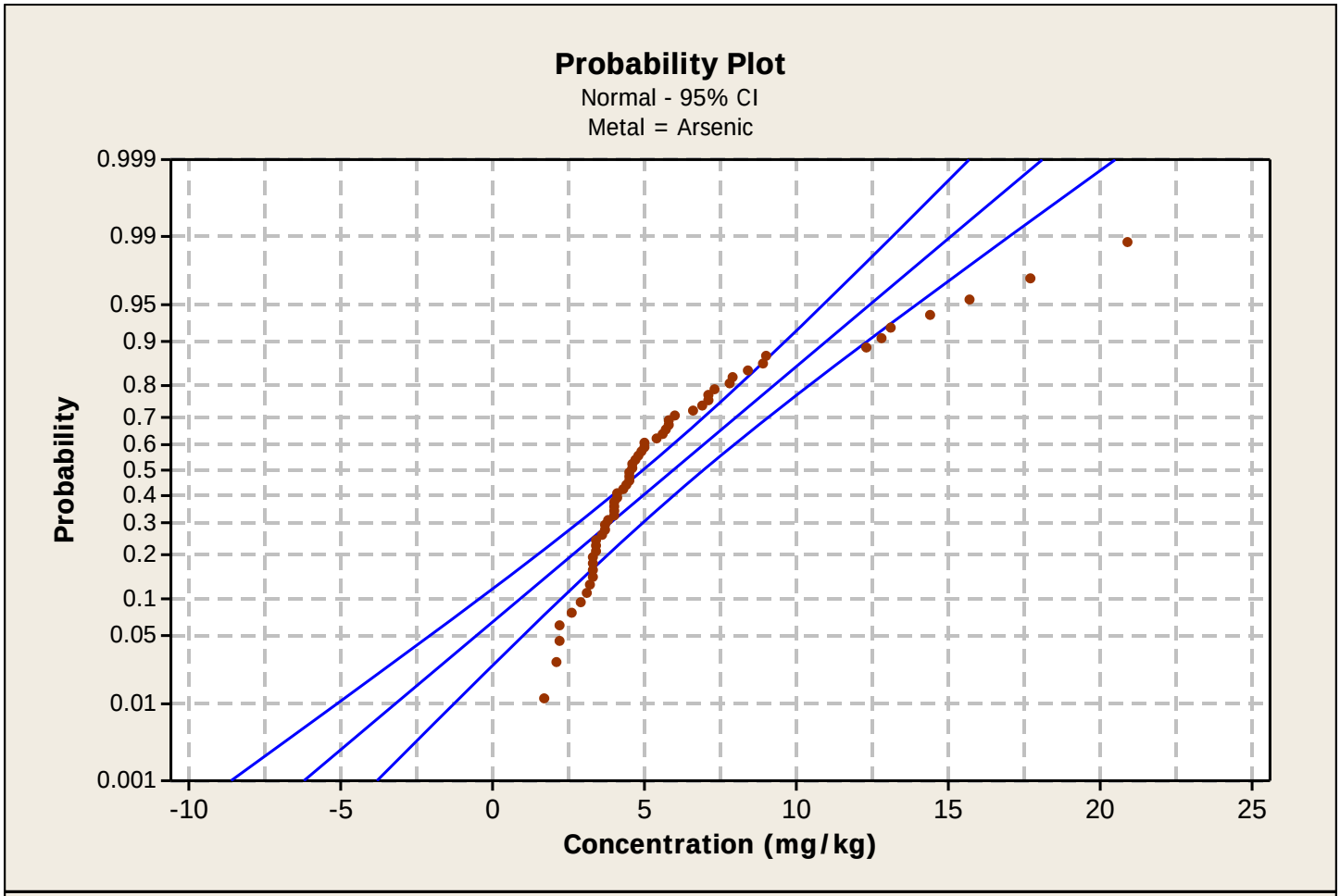
CUMULATIVE PROBABILITY PLOTS AND BOX-AND-WHISKER PLOTS

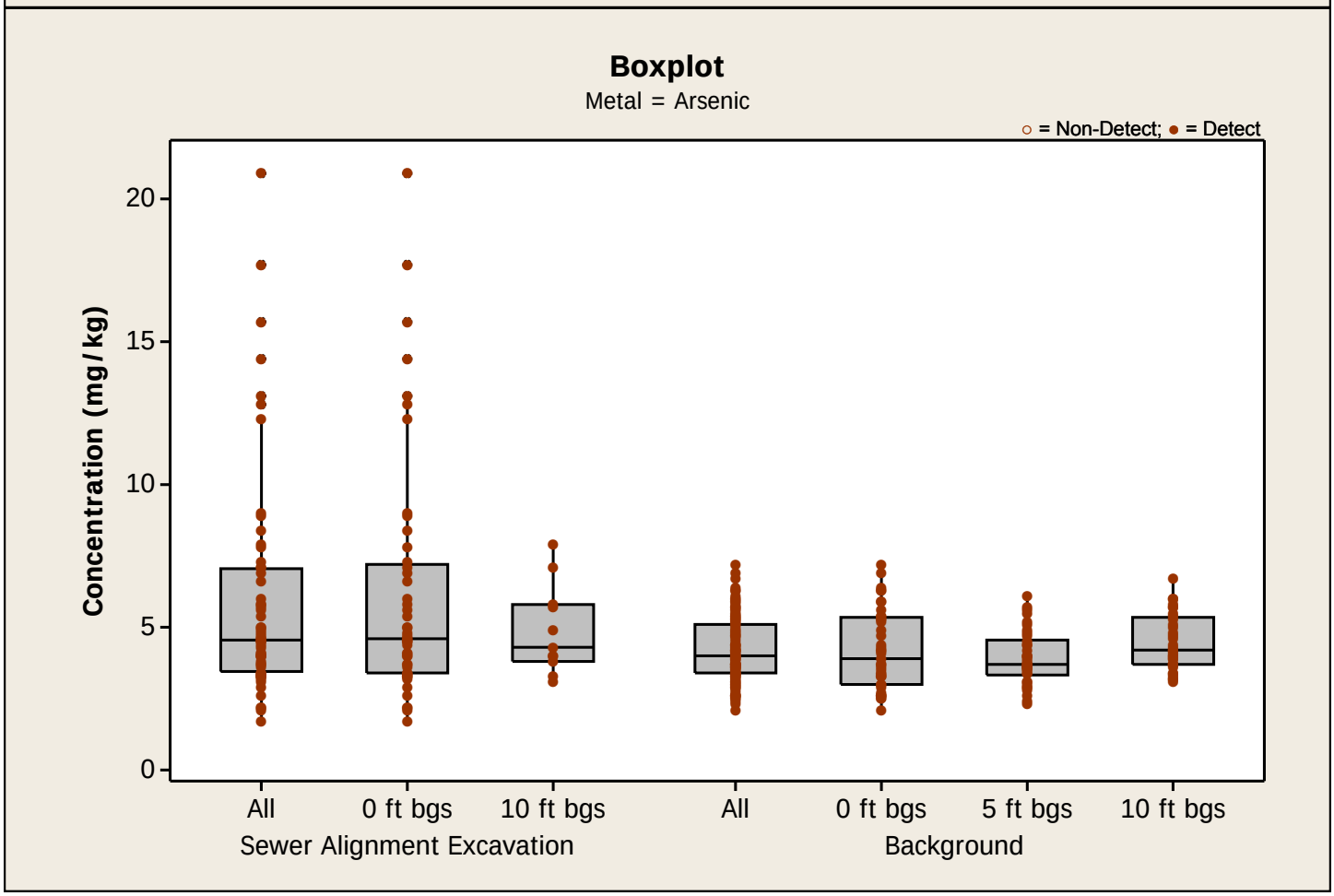

Probability Plot
Normal - 95% CI
Metal = Aluminum
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
2000
4000
6000
8000
10000
12000
14000
16000
Concentration (mg/kg)

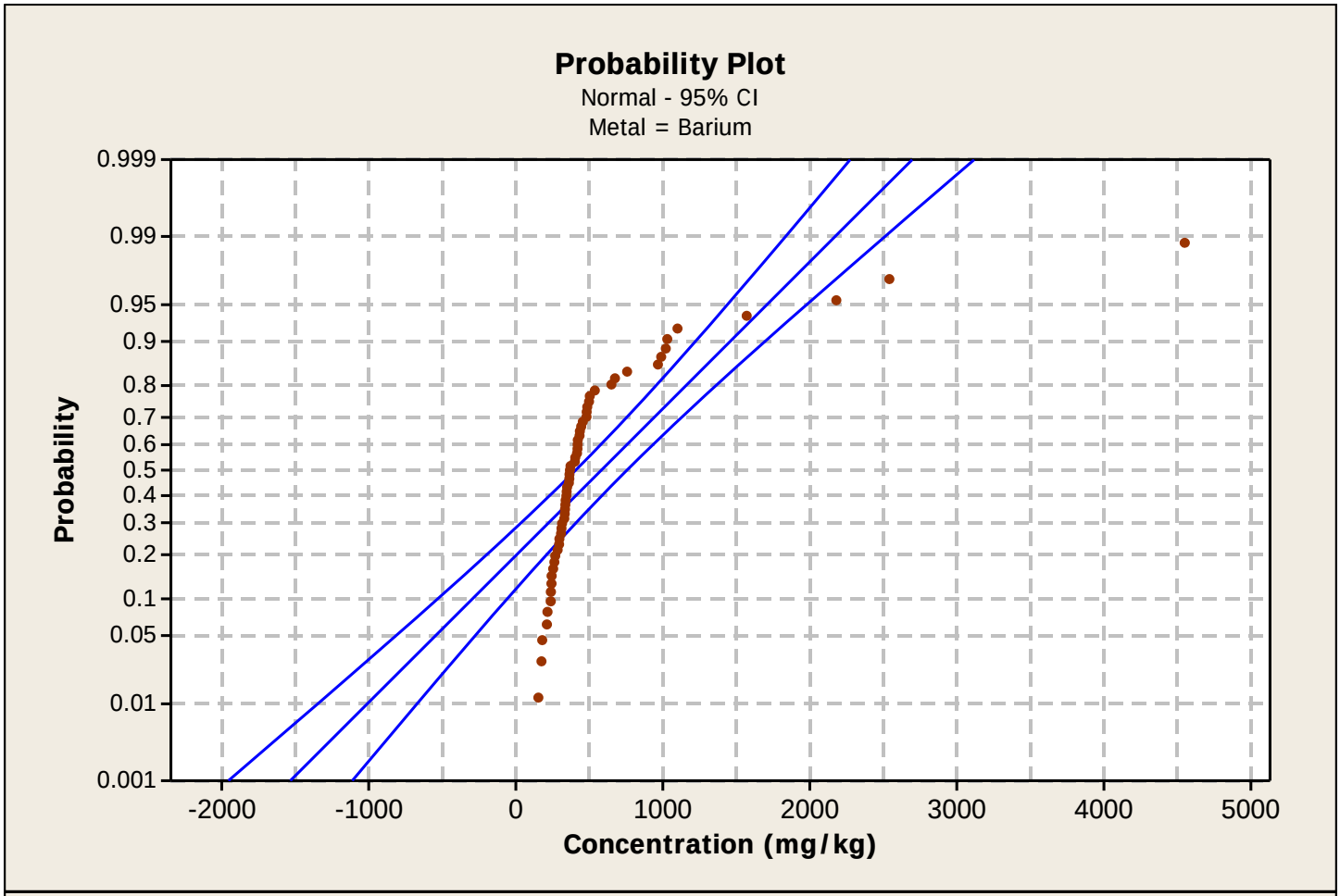

Boxplot
Metal = Aluminum
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
15000
12500
10000
7500
5000
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

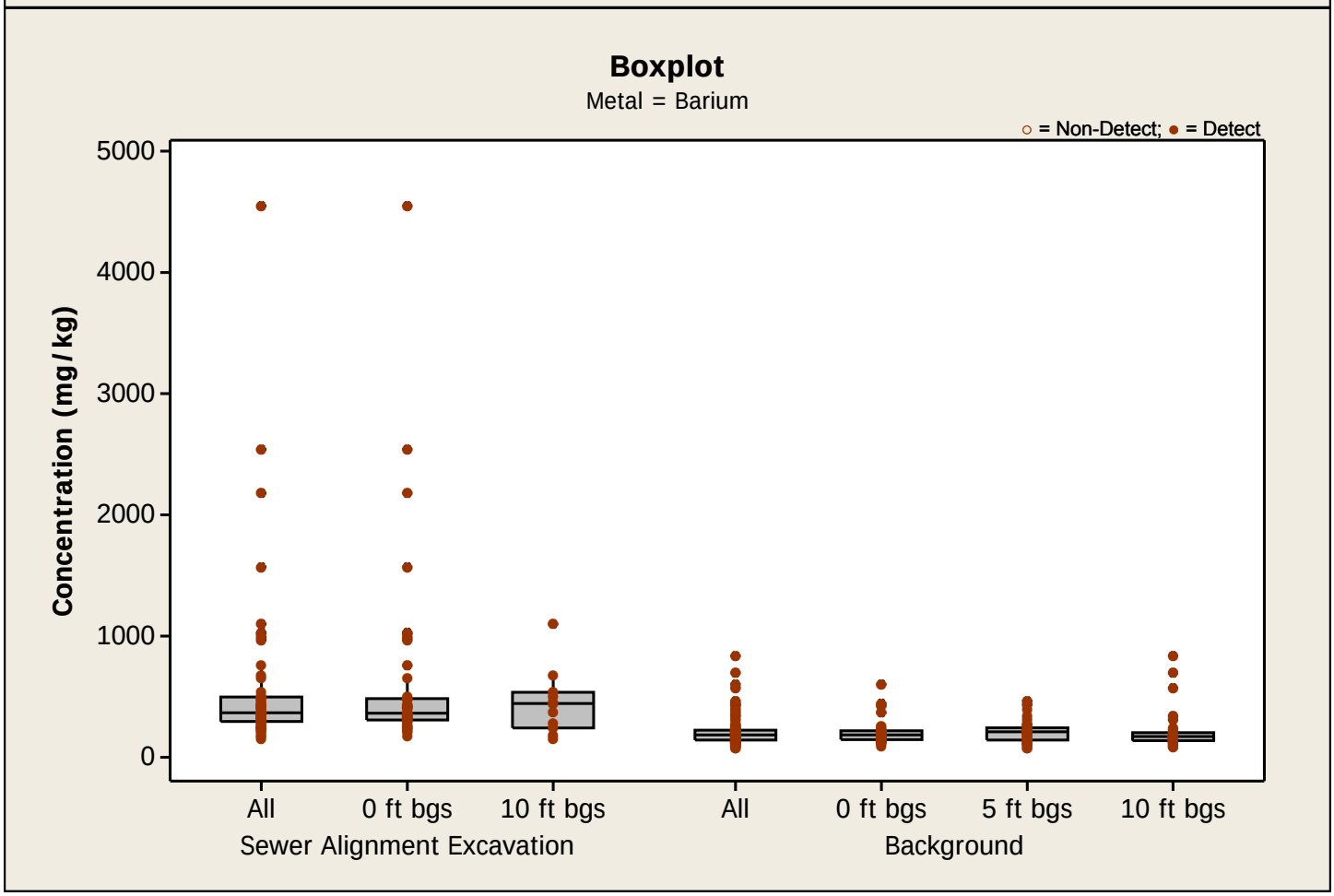

Probability Plot
Normal - 95% CI
Metal = Antimony
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-5.0
-2.5
0.0
2.5
5.0
7.5
10.0
Concentration (mg/kg)

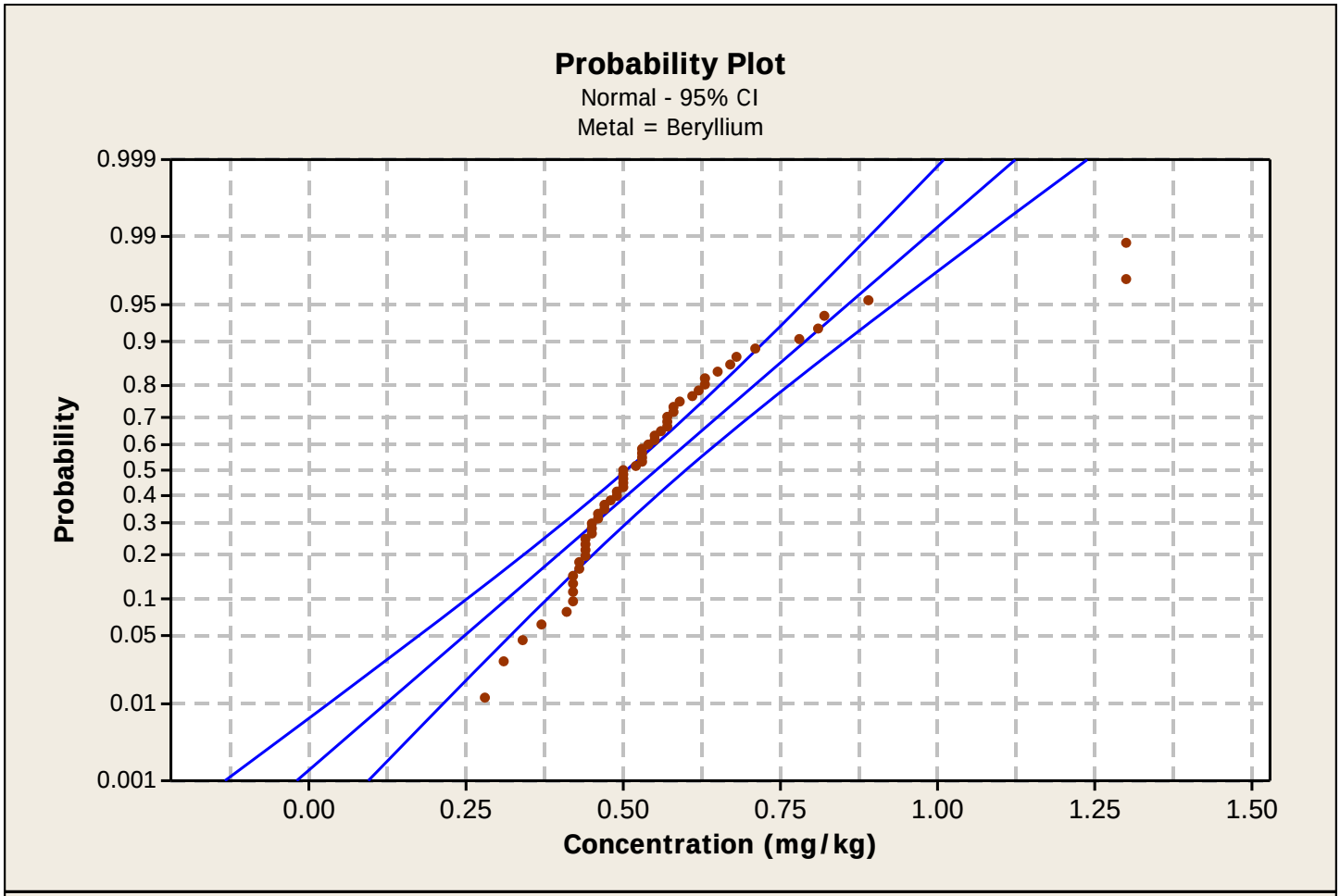

Boxplot
Metal = Antimony
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
10
8
6
4
2
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

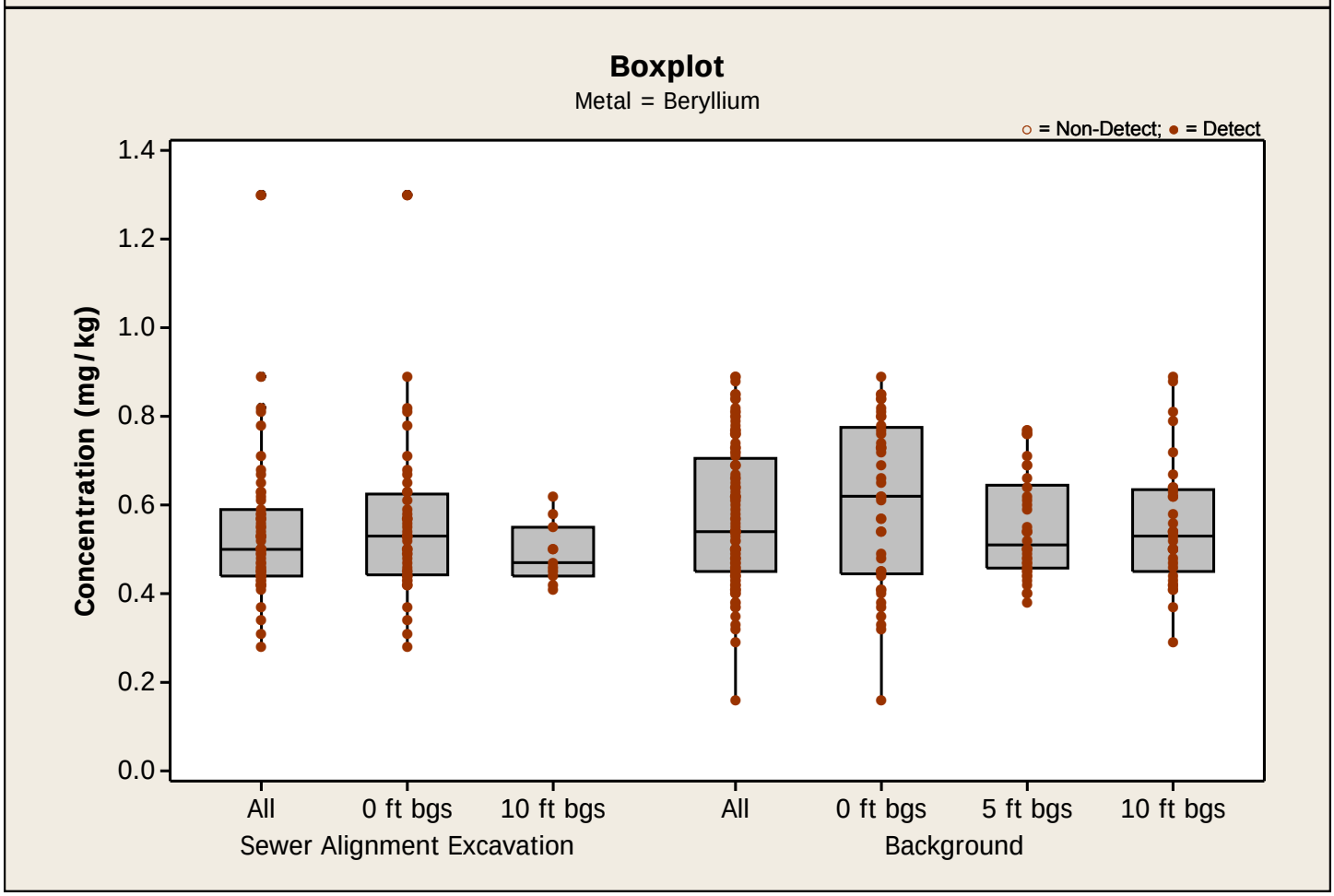

Probability Plot
Normal - 95% CI
Metal = Arsenic
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-10
-5
0
5
10
15
20
25
Concentration (mg/kg)

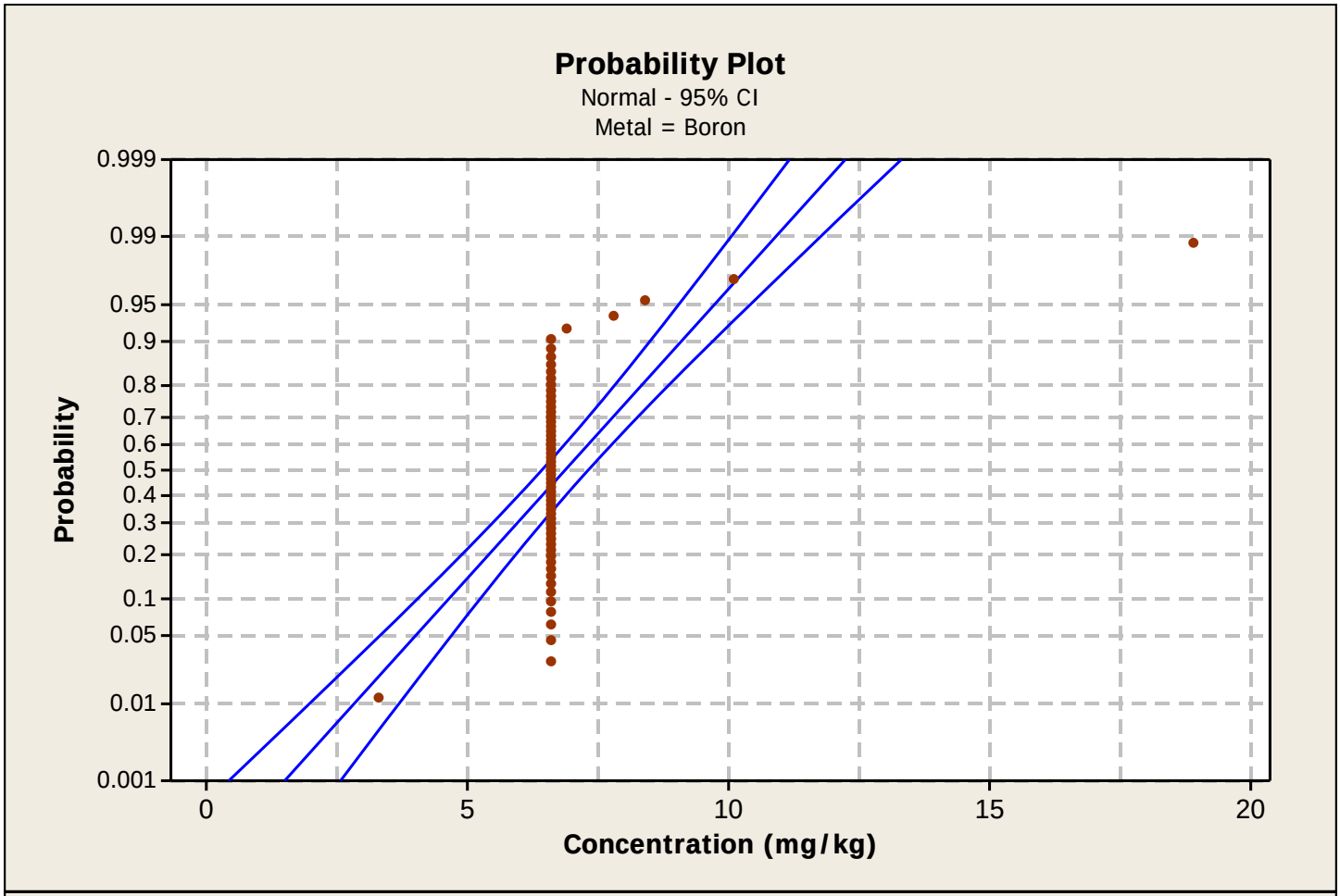

Boxplot
Metal = Arsenic
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
20
15
10
5
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

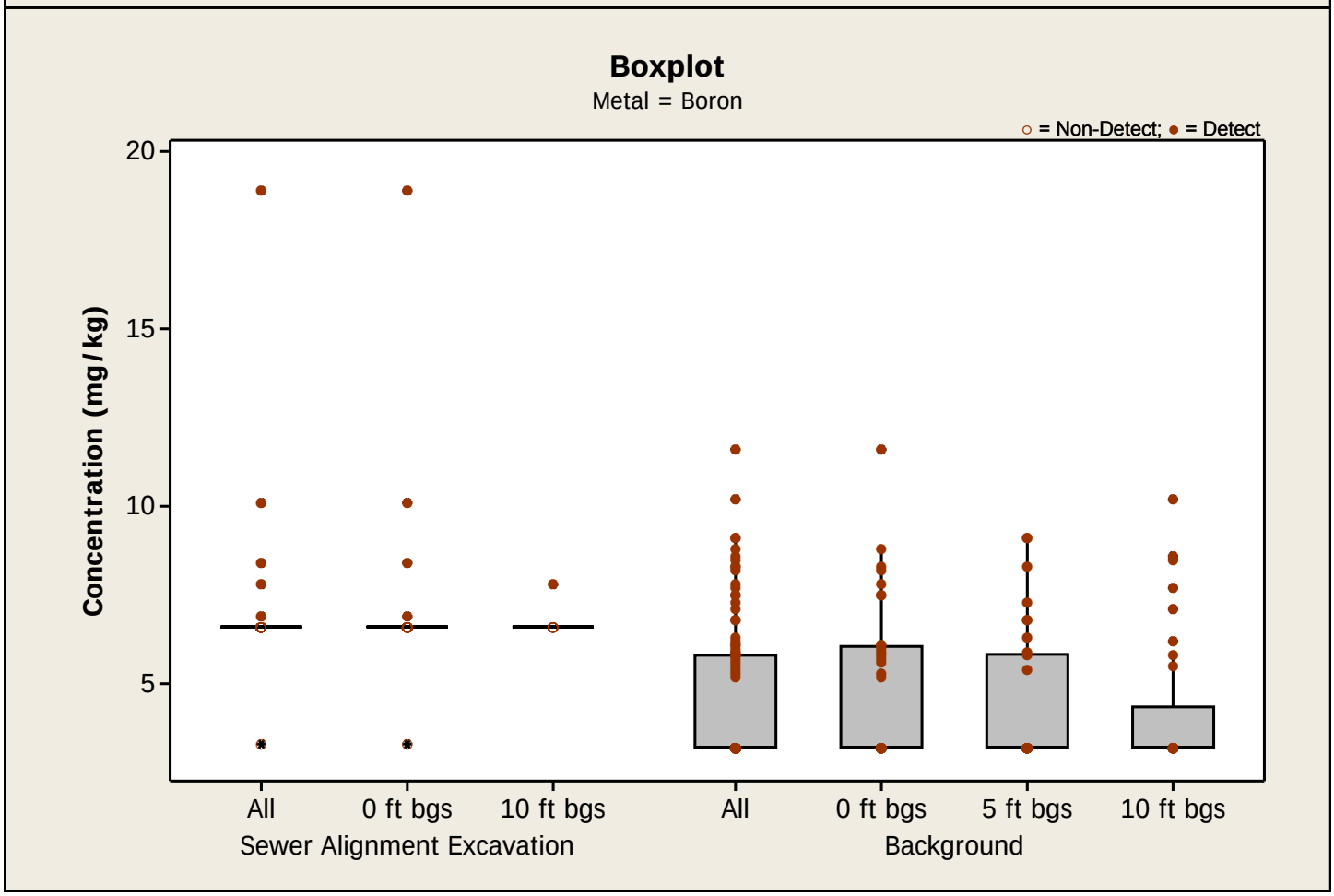

Probability Plot
Normal - 95% CI
Metal = Barium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-2000
-1000
0
1000
2000
3000
4000
5000
Concentration (mg/kg)

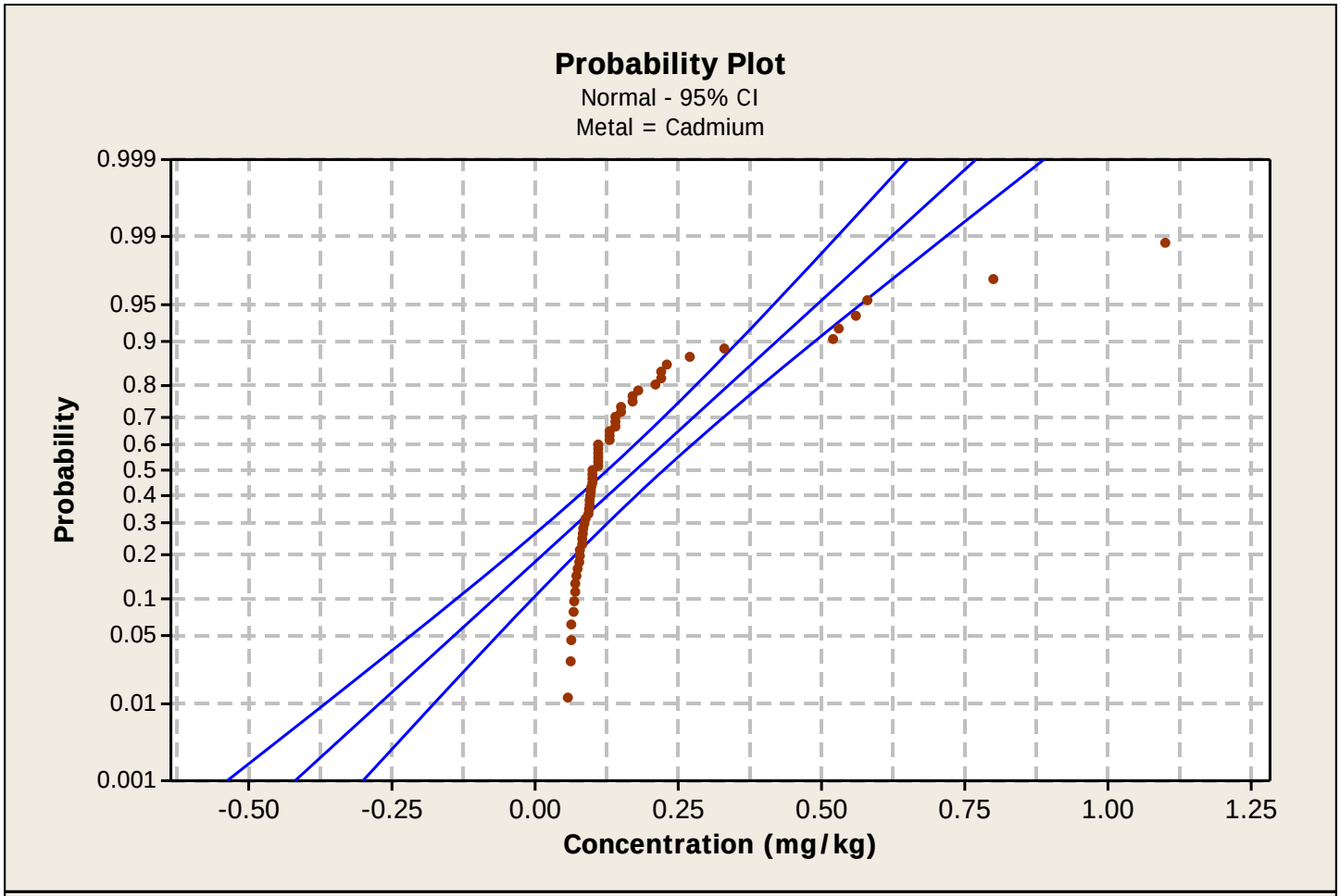

Boxplot
Metal = Barium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
5000
4000
3000
2000
1000
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

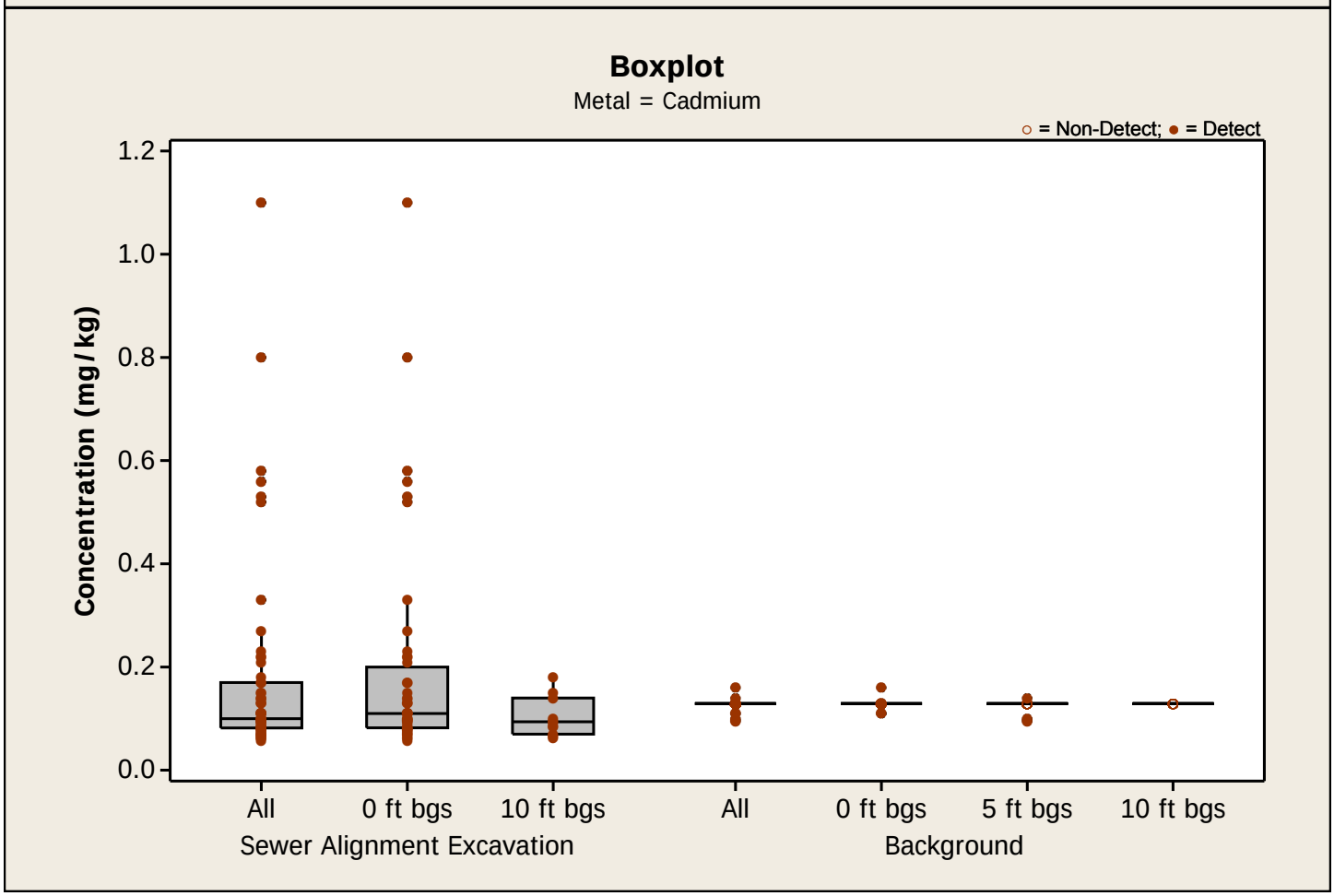

Probability Plot
Normal - 95% CI
Metal = Beryllium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0.00
0.25
0.50
0.75
1.00
1.25
1.50
Concentration (mg/kg)

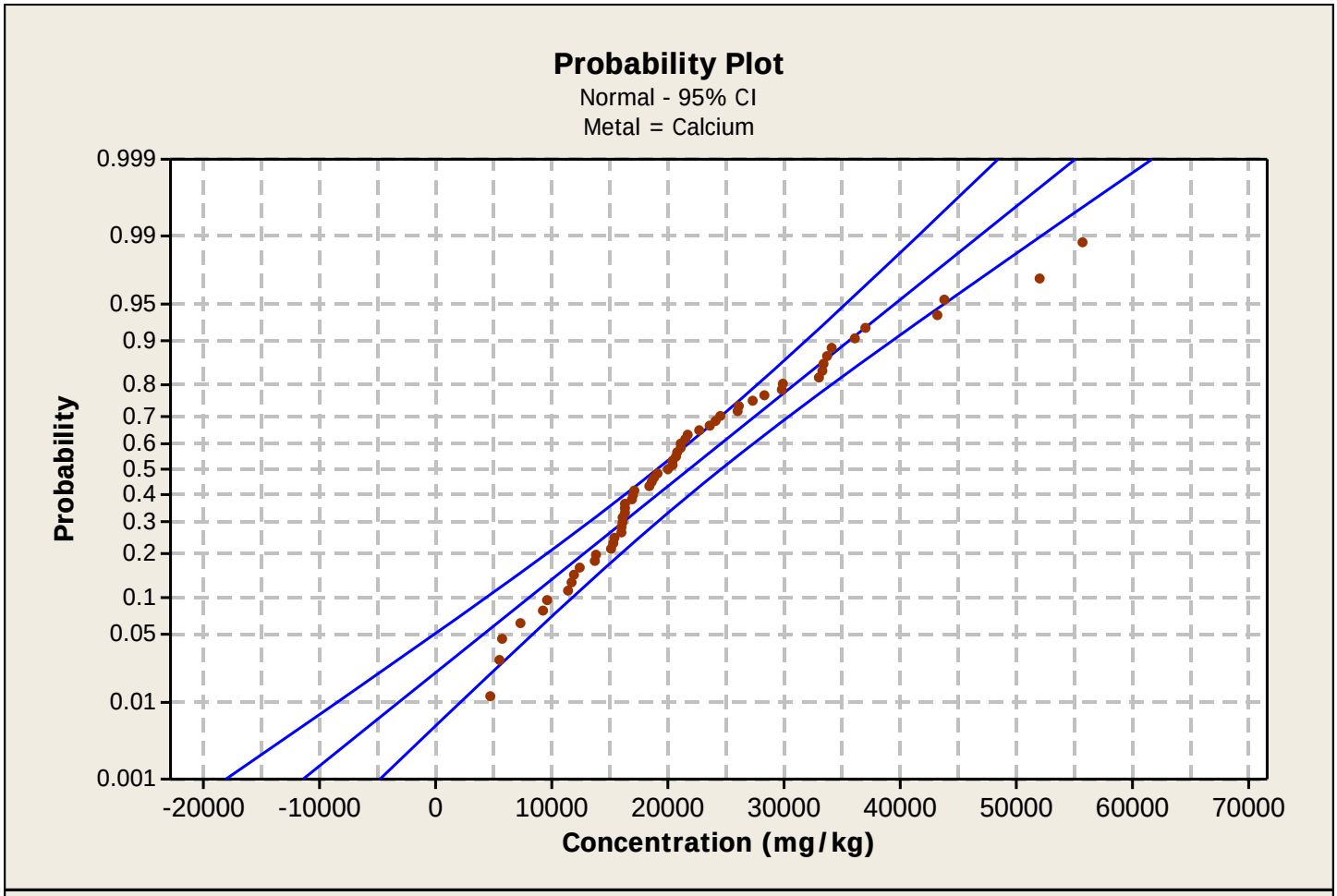

Boxplot
Metal = Beryllium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

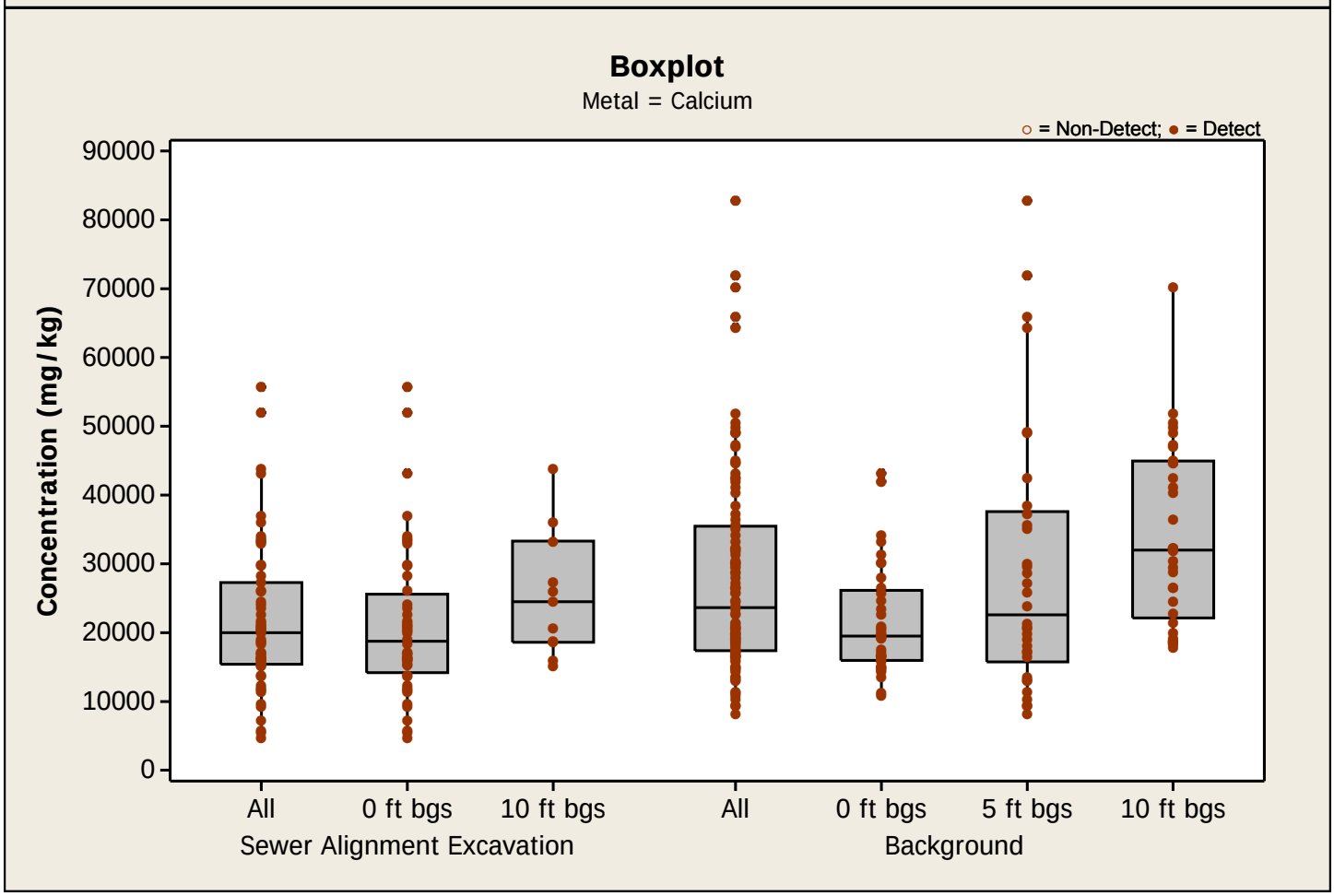

Probability Plot
Normal - 95% CI
Metal = Boron
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
5
10
15
20
Concentration (mg/kg)

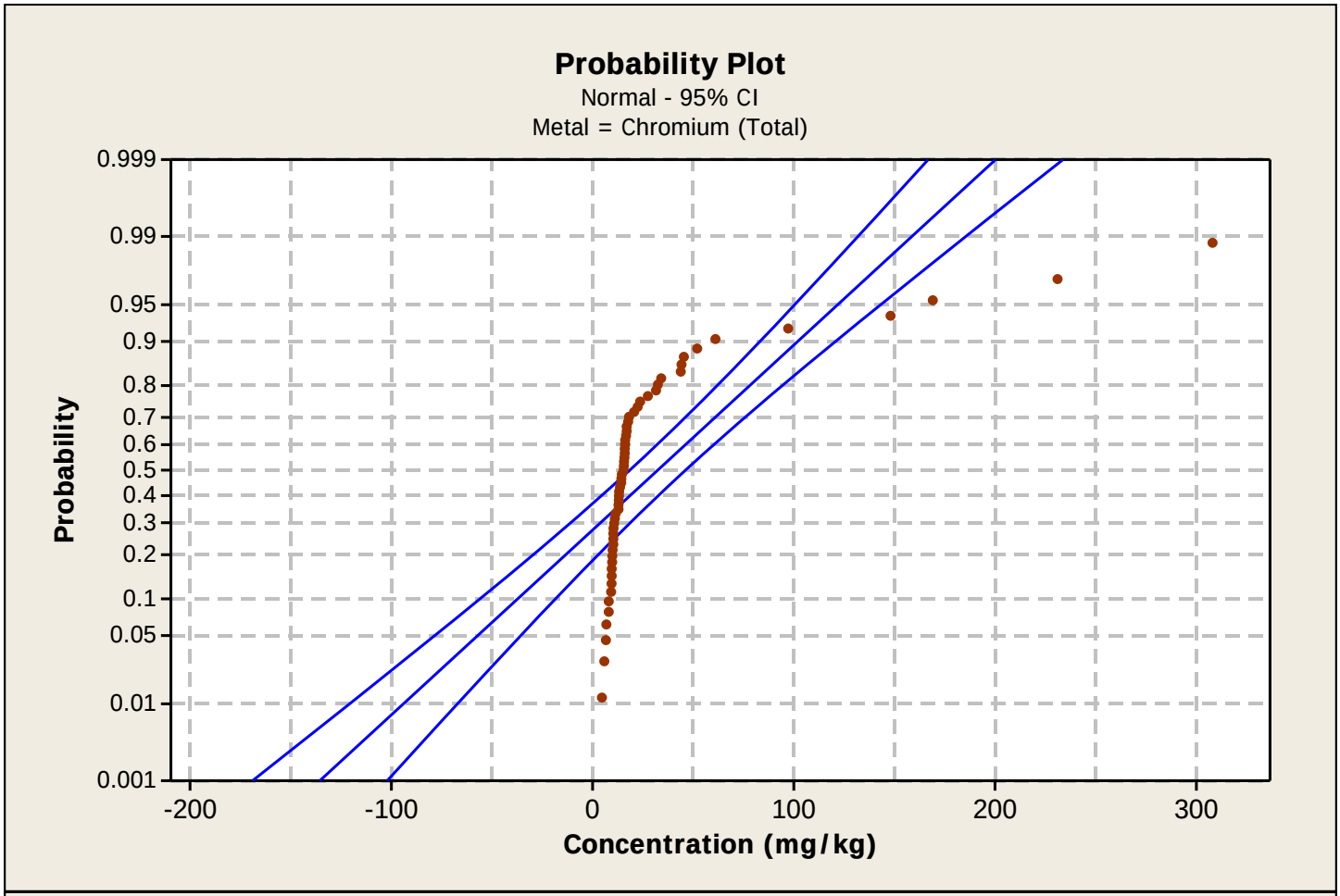

Boxplot
Metal = Boron
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
20
15
10
5
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

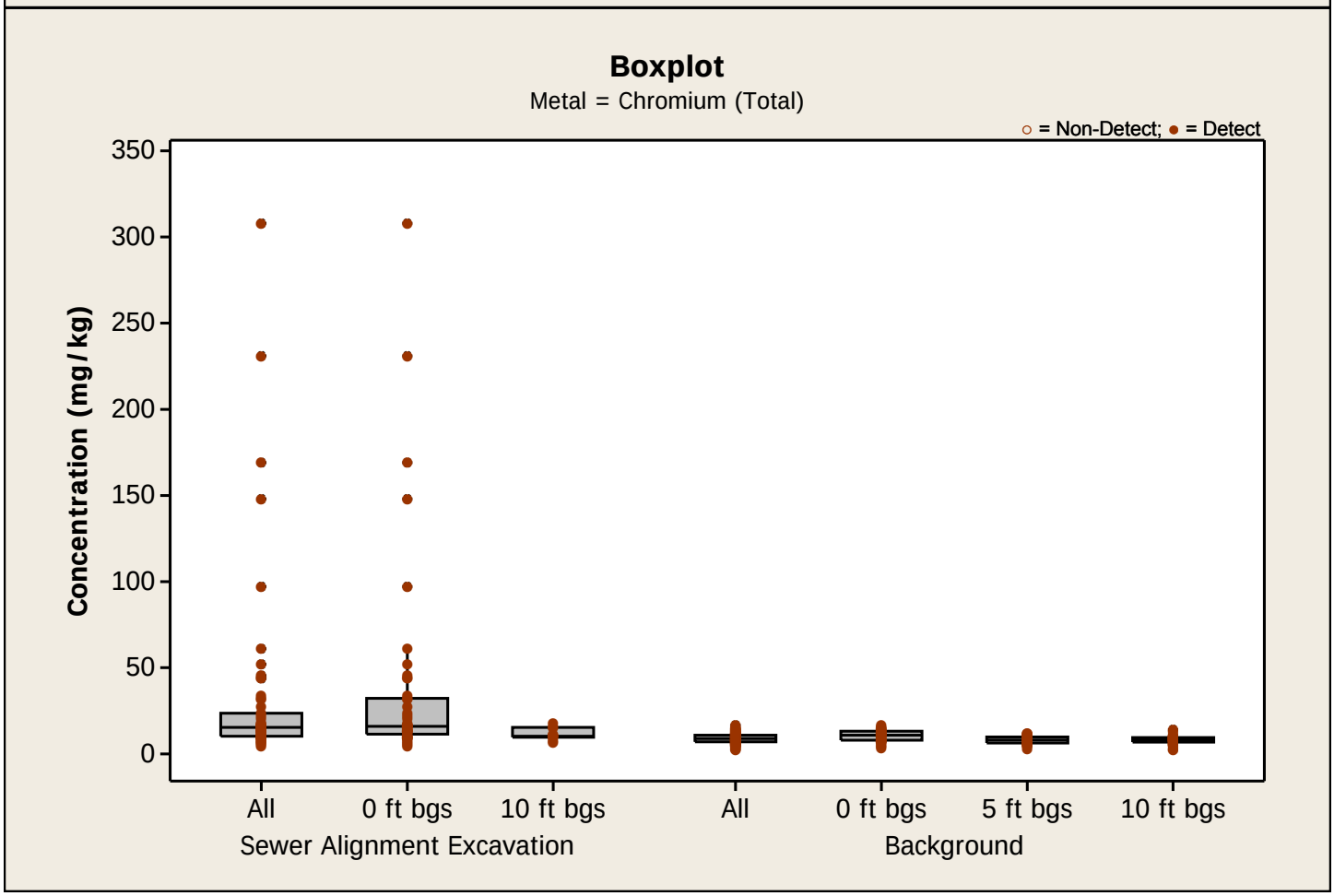

Probability Plot
Normal - 95% CI
Metal = Cadmium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.50
-0.25
0.00
0.25
0.50
0.75
1.00
1.25
Concentration (mg/kg)

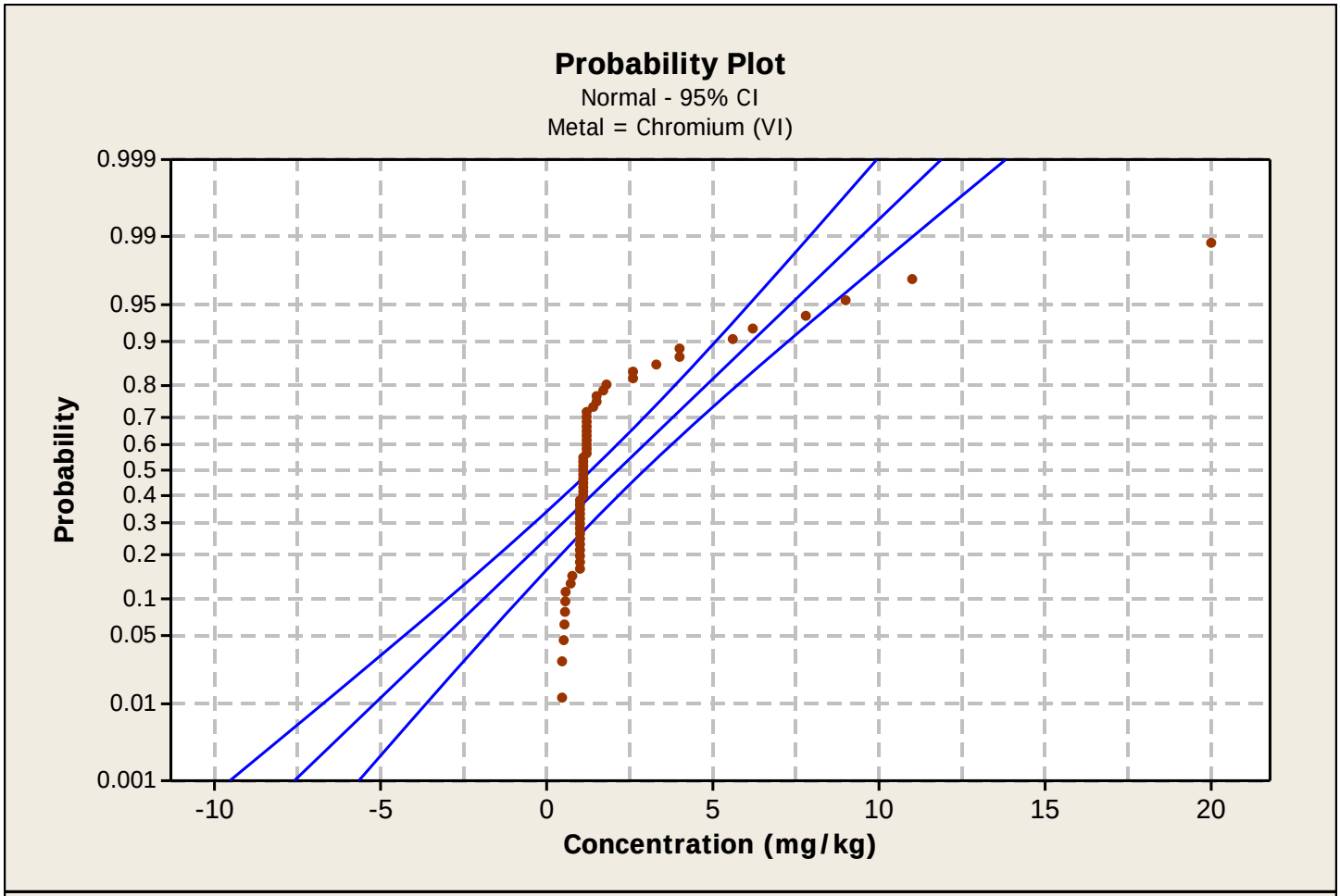

Boxplot
Metal = Cadmium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

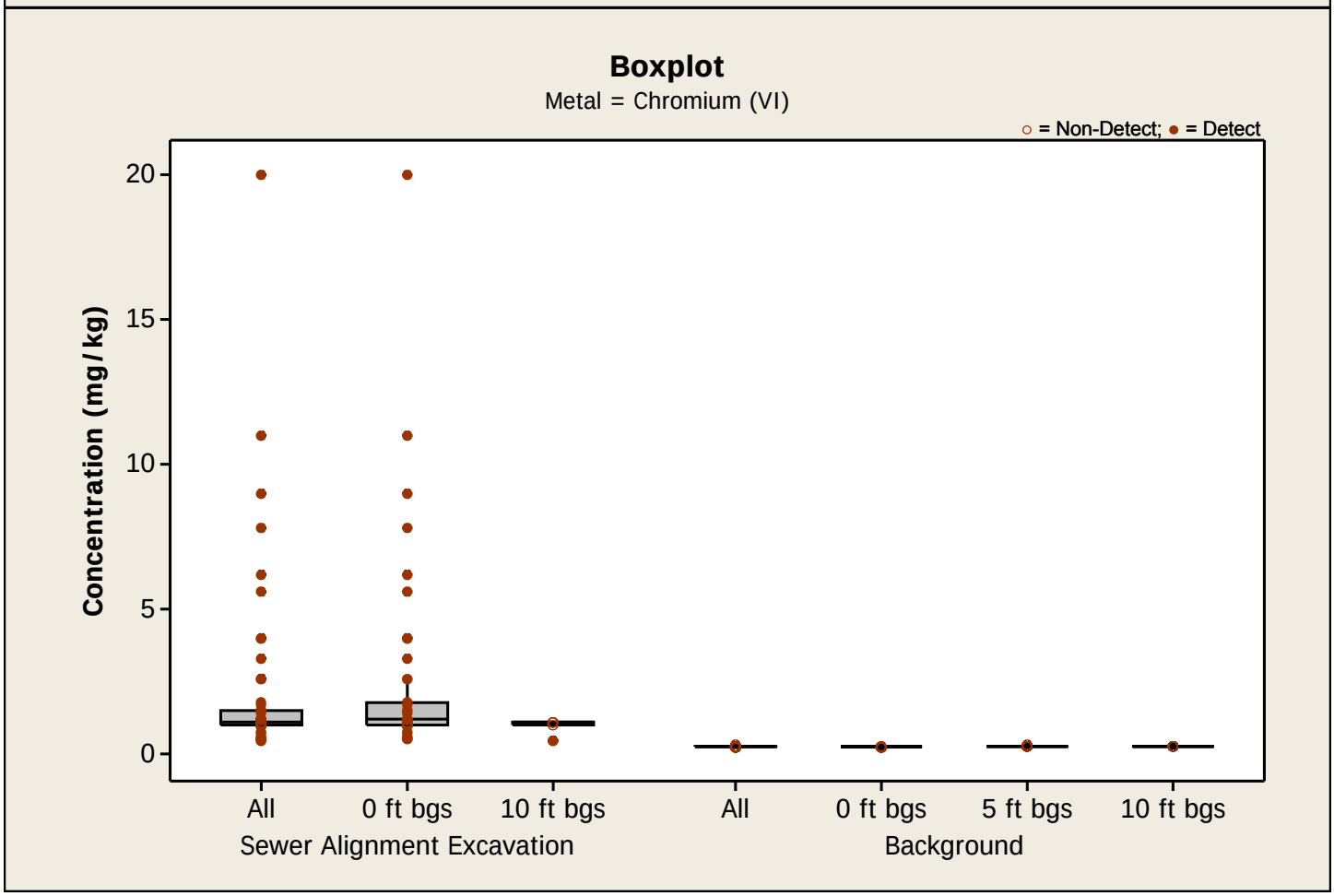

Probability Plot
Normal - 95% CI
Metal = Calcium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-20000
-10000
0
10000
20000
30000
40000
50000
60000
70000
Concentration (mg/kg)

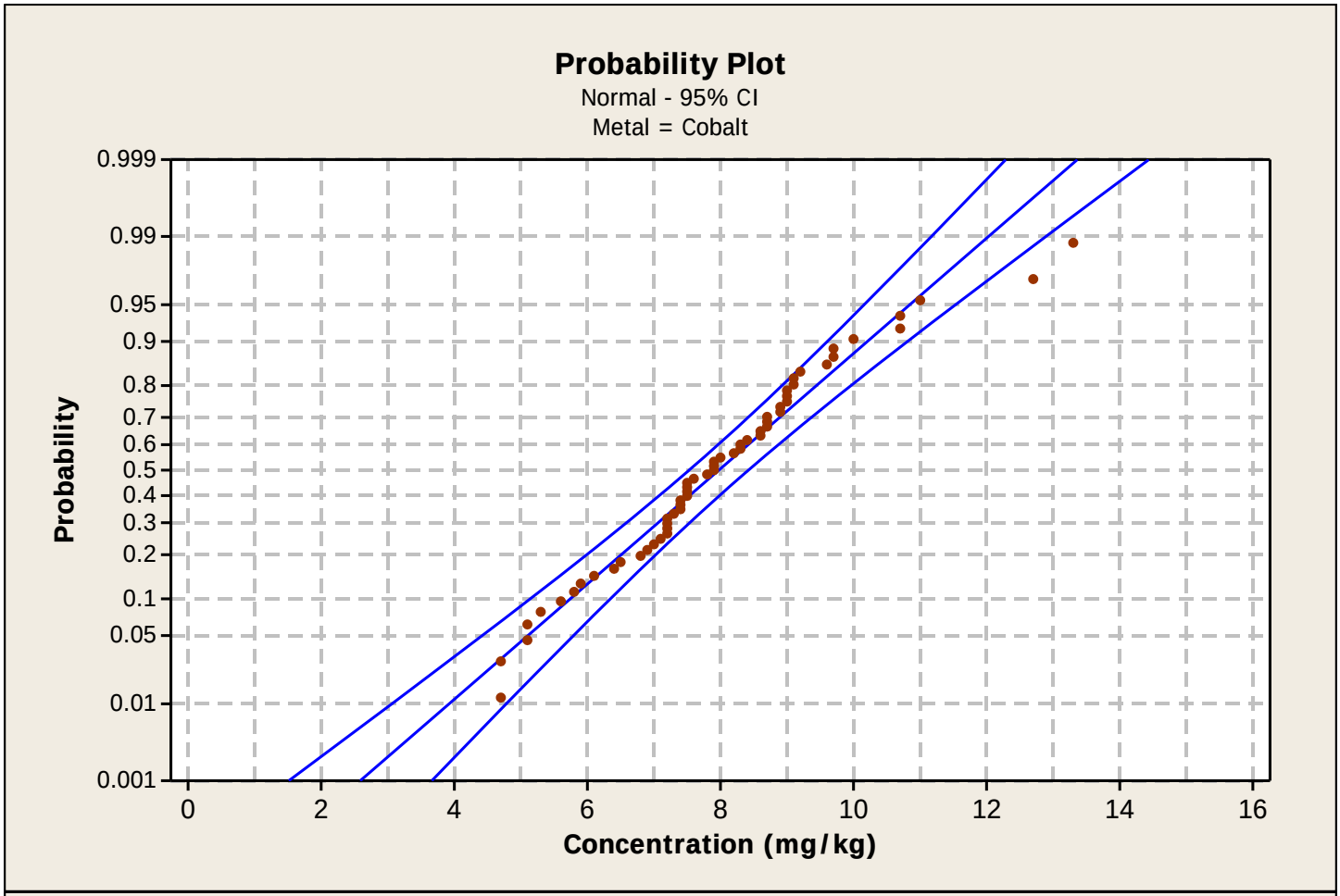

Boxplot
Metal = Calcium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

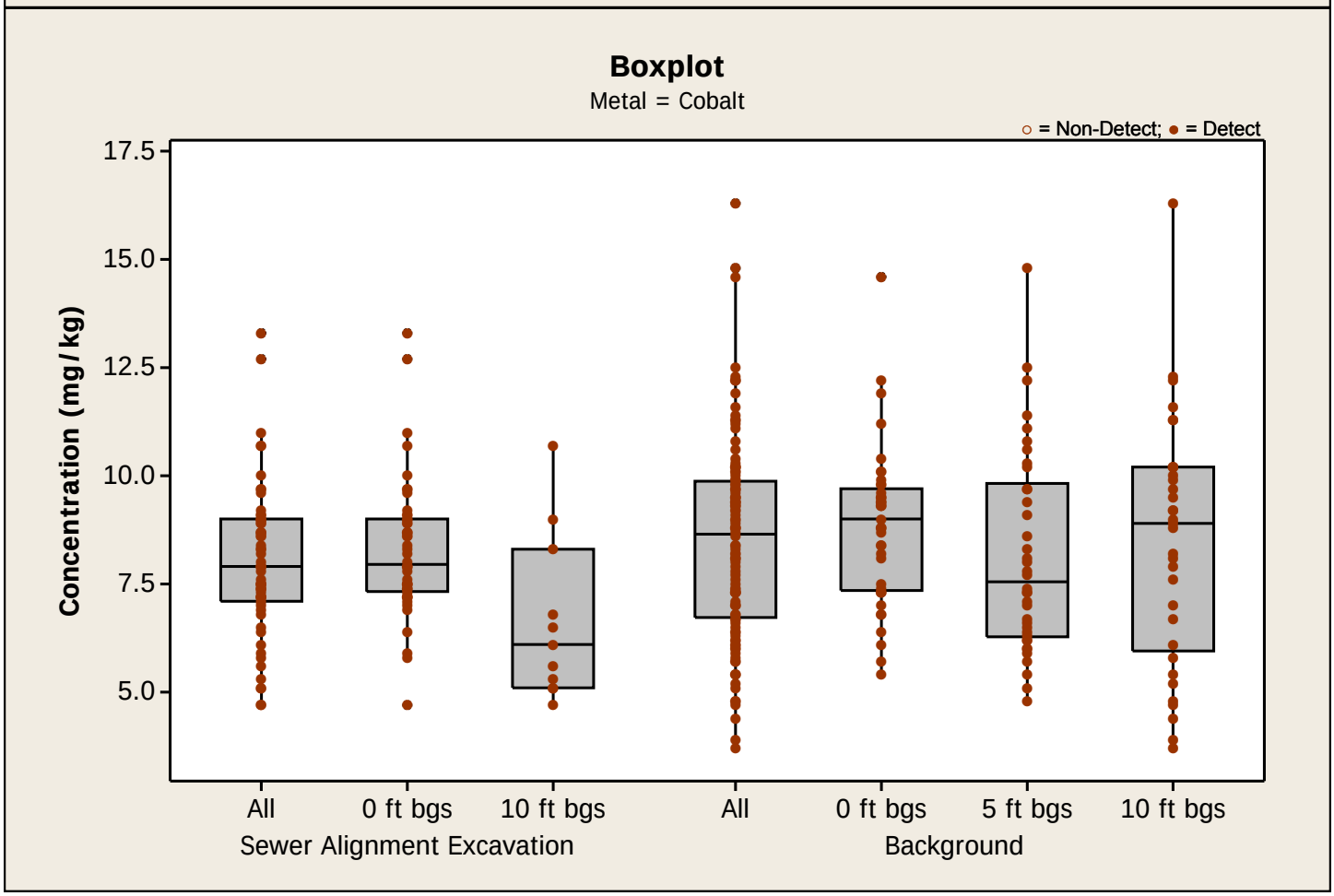

Probability Plot
Normal - 95% CI
Metal = Chromium (Total)
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-200
-100
0
100
200
300
Concentration (mg/kg)

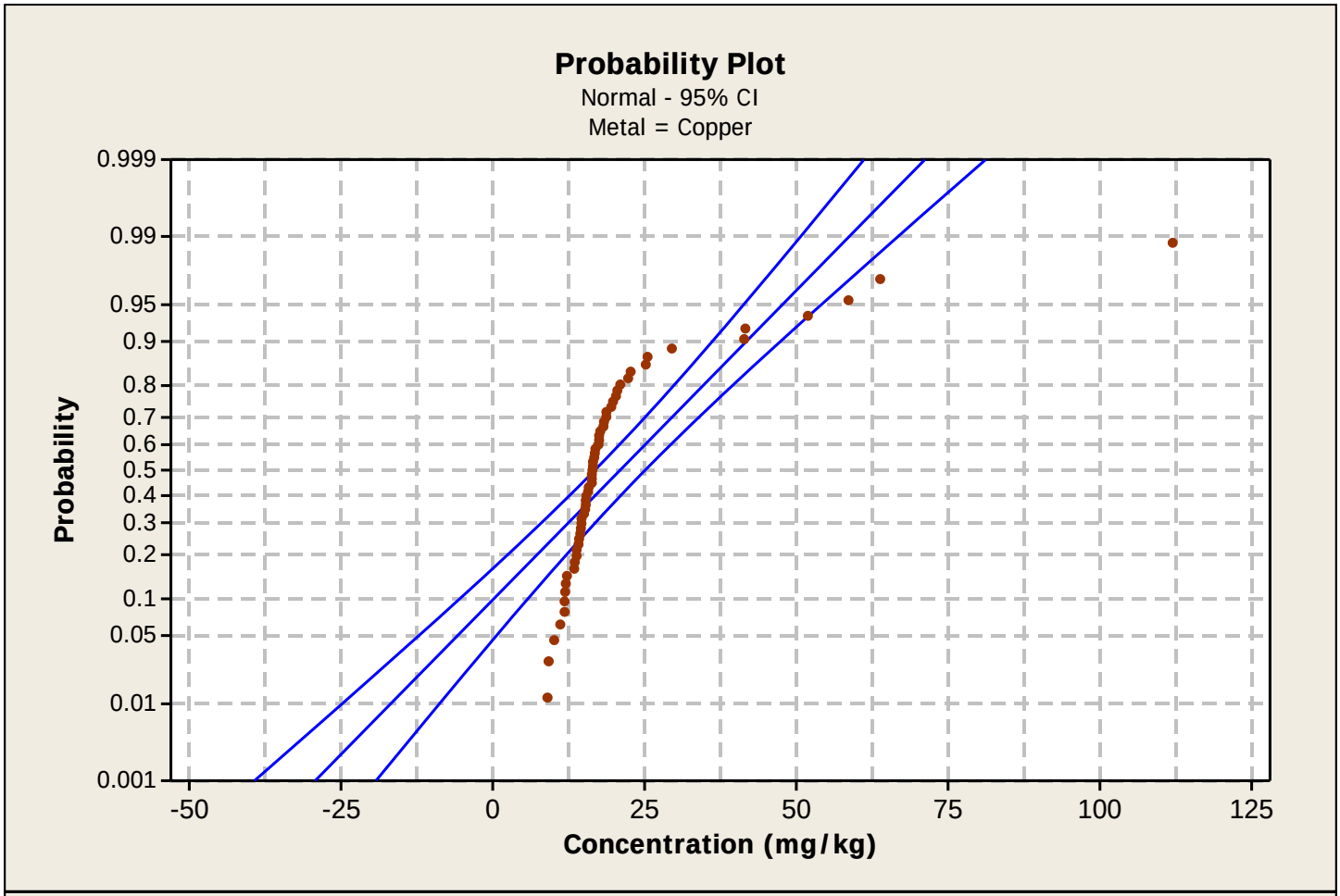

Boxplot
Metal = Chromium (Total)
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
350
300
250
200
150
100
50
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

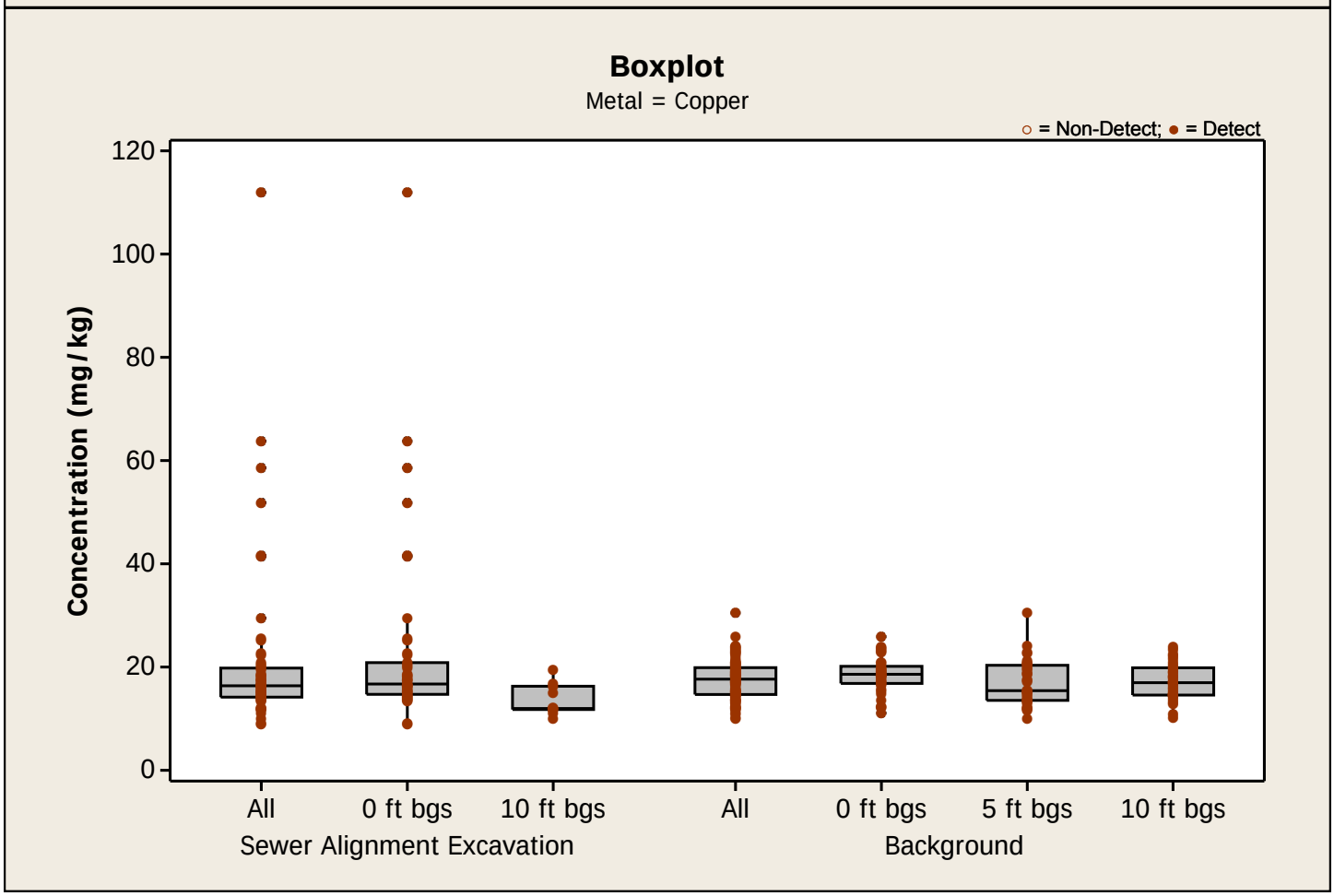

Probability Plot
Normal - 95% CI
Metal = Chromium (VI)
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-10
-5
0
5
10
15
20
Concentration (mg/kg)

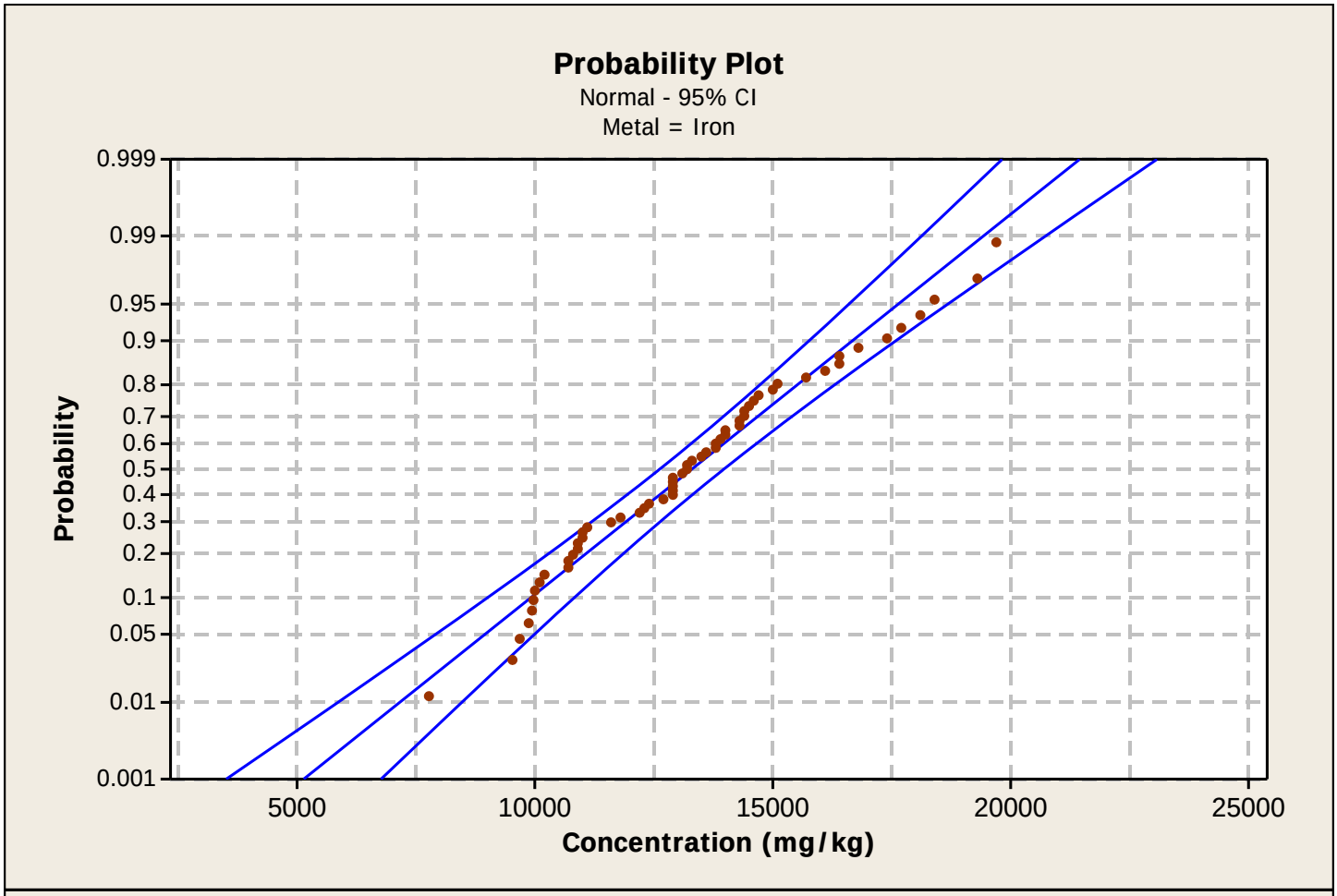

Boxplot
Metal = Chromium (VI)
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
20
15
10
5
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

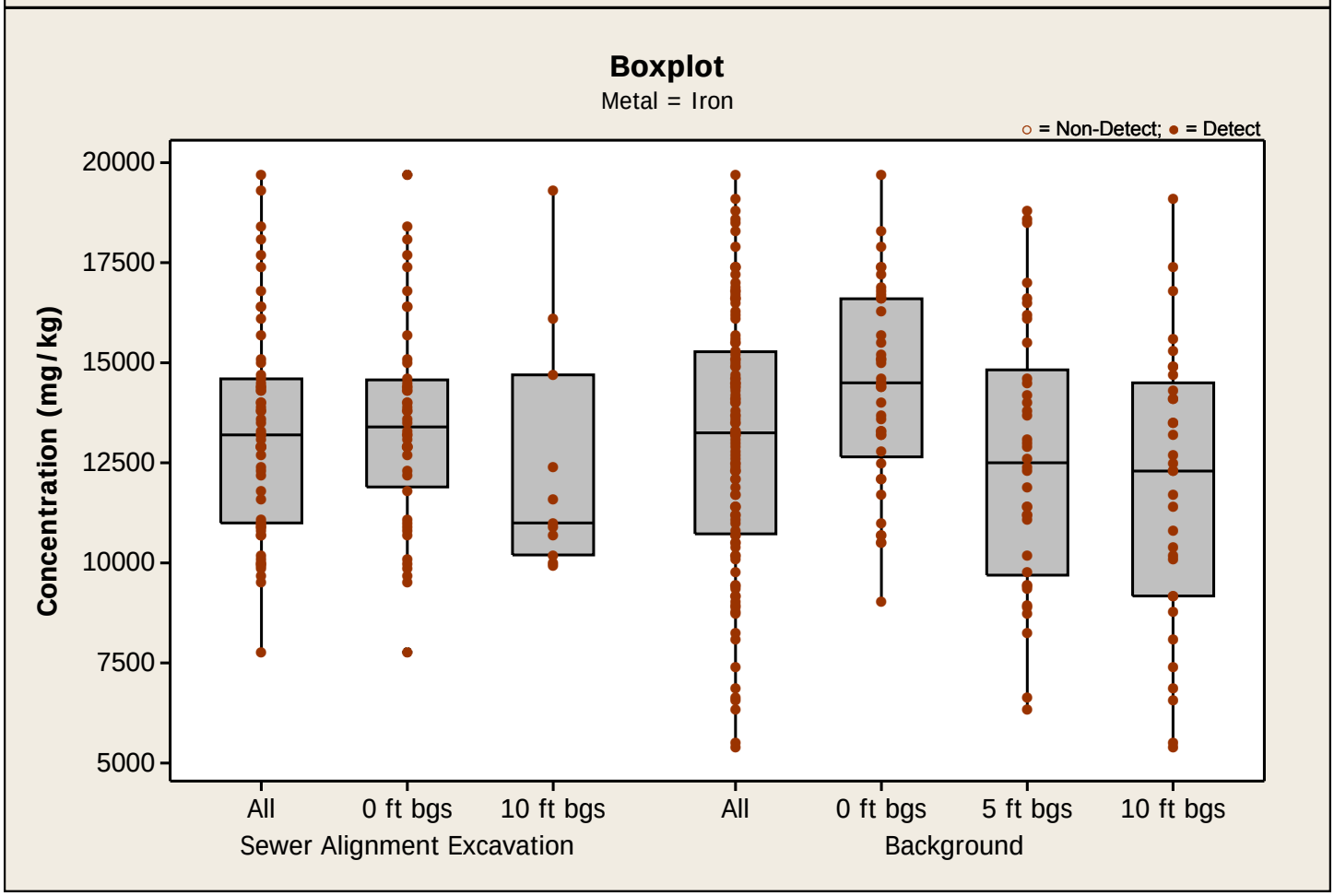

Probability Plot
Normal - 95% CI
Metal = Cobalt
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
2
4
6
8
10
12
14
16
Concentration (mg/kg)

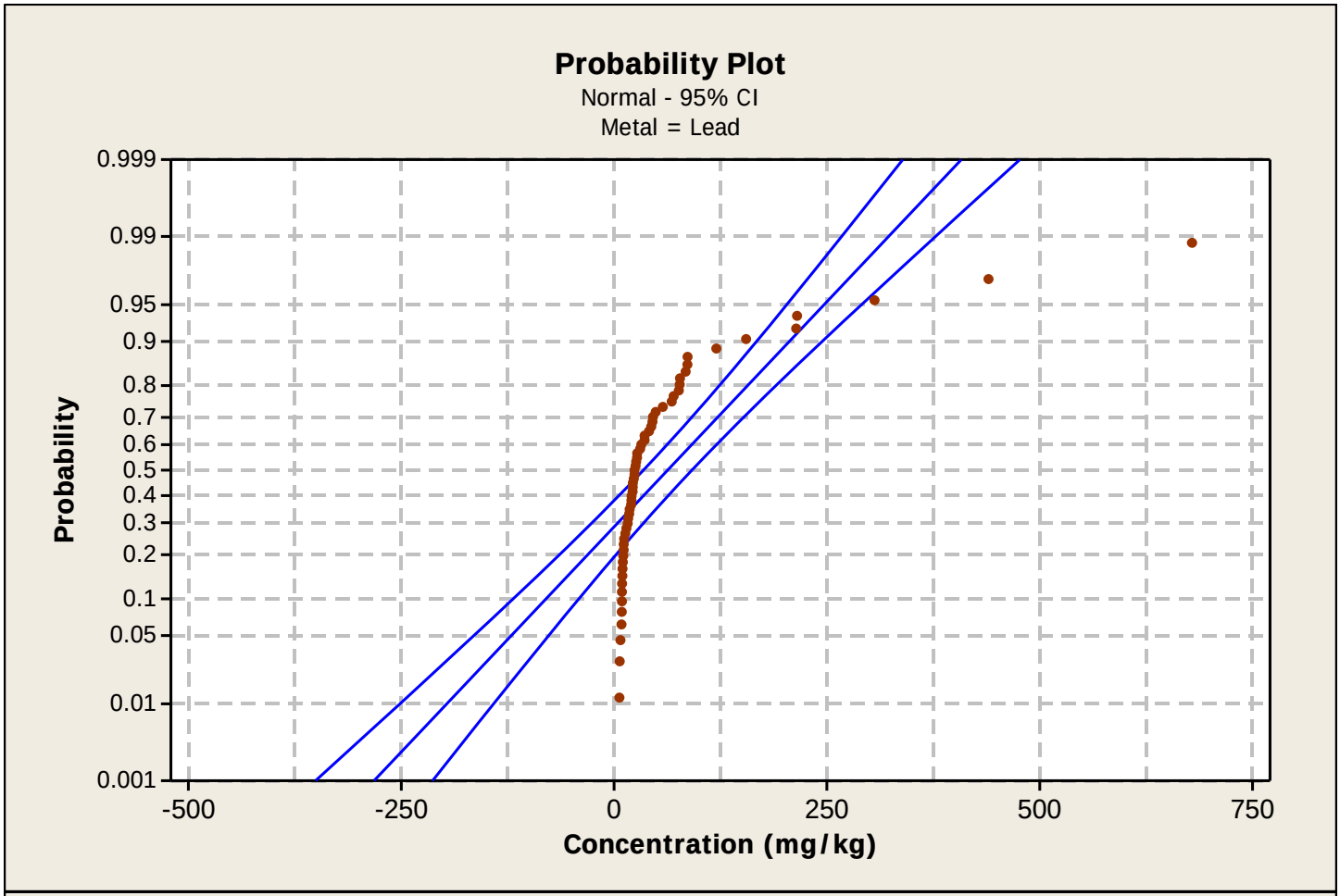

Boxplot
Metal = Cobalt
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
17.5
15.0
12.5
10.0
7.5
5.0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

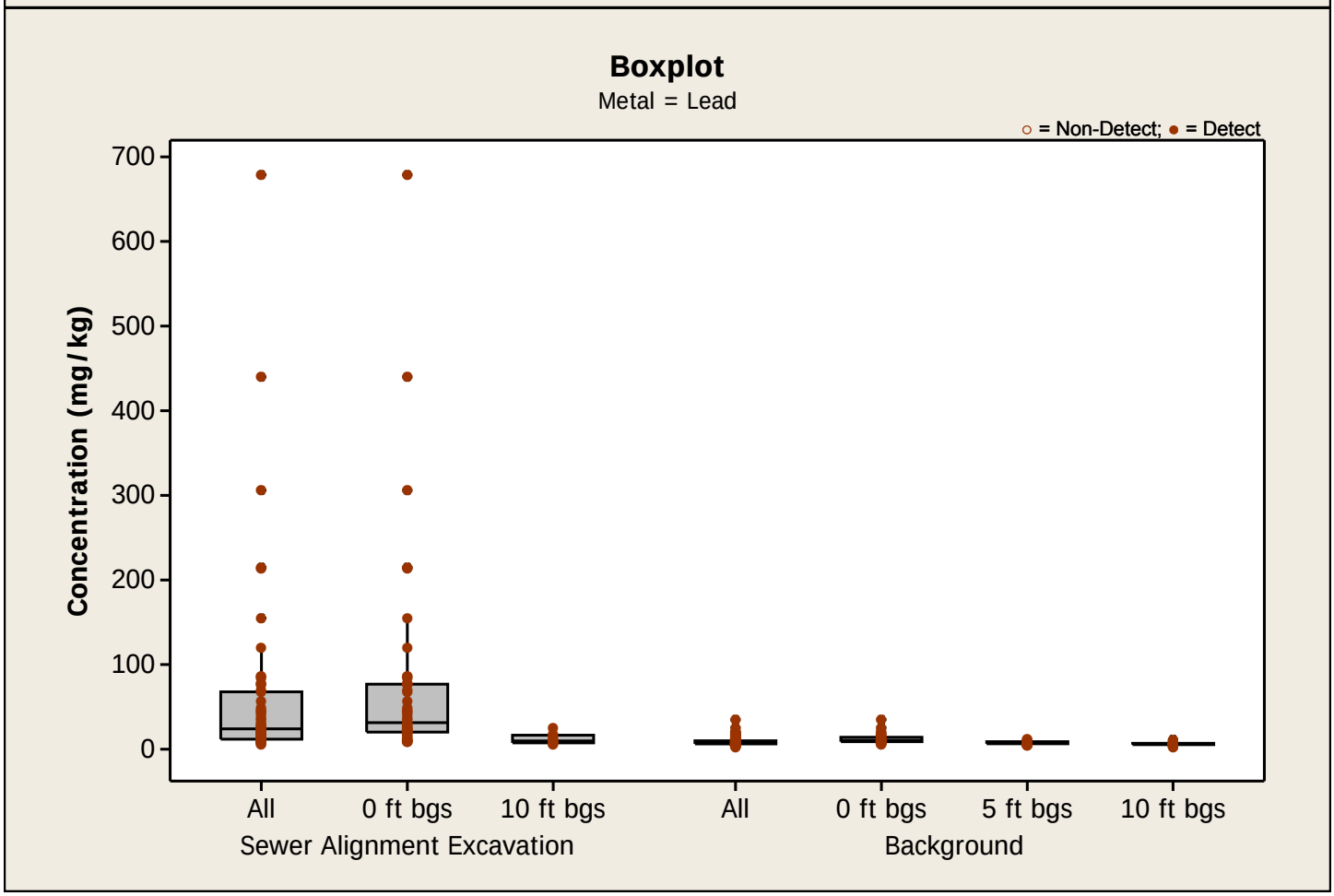

Probability Plot
Normal - 95% CI
Metal = Copper
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-50
-25
0
25
50
75
100
125
Concentration (mg/kg)

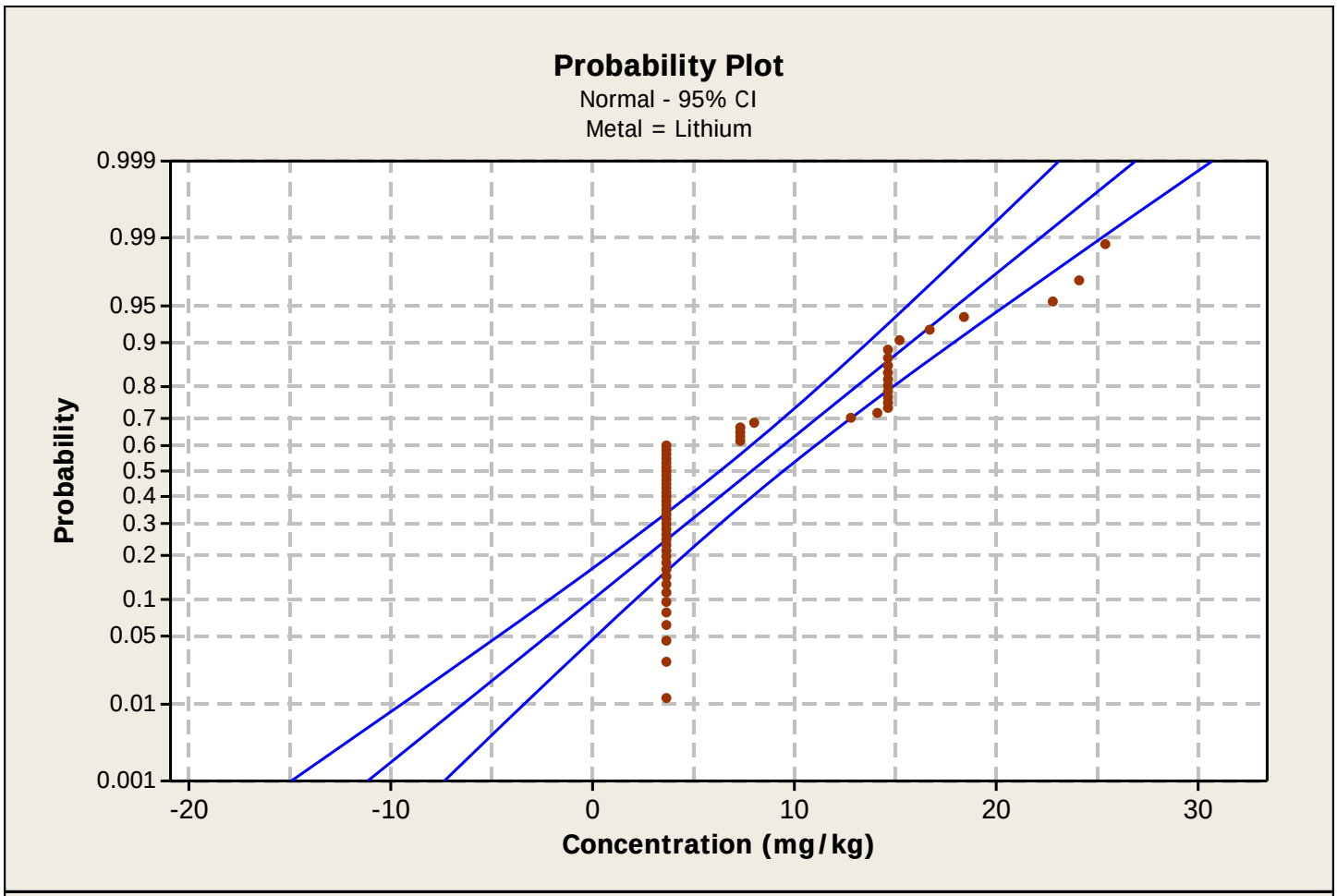

Boxplot
Metal = Copper
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
120
100
80
60
40
20
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

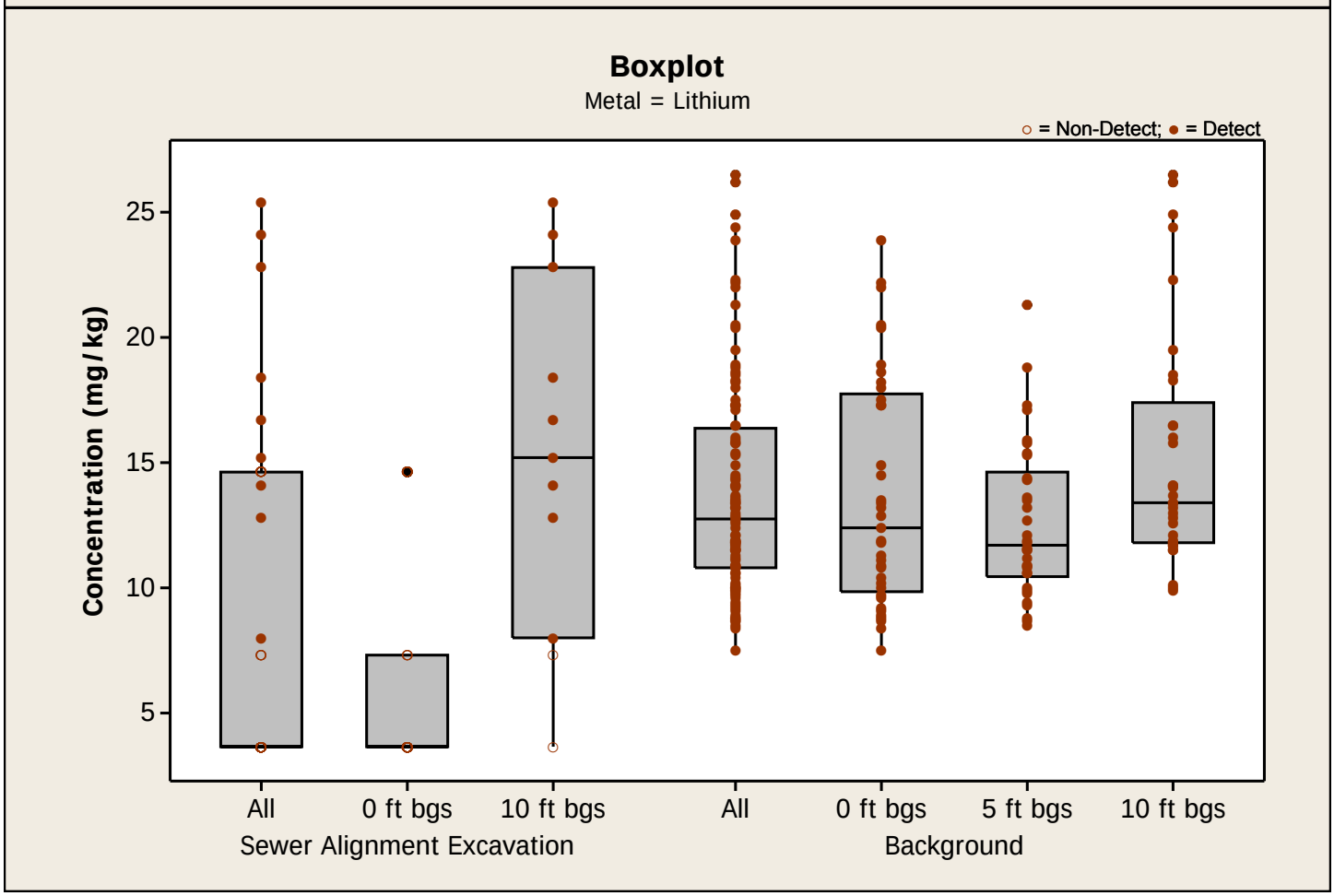

Probability Plot
Normal - 95% CI
Metal = Iron
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
5000
10000
15000
20000
25000
Concentration (mg/kg)

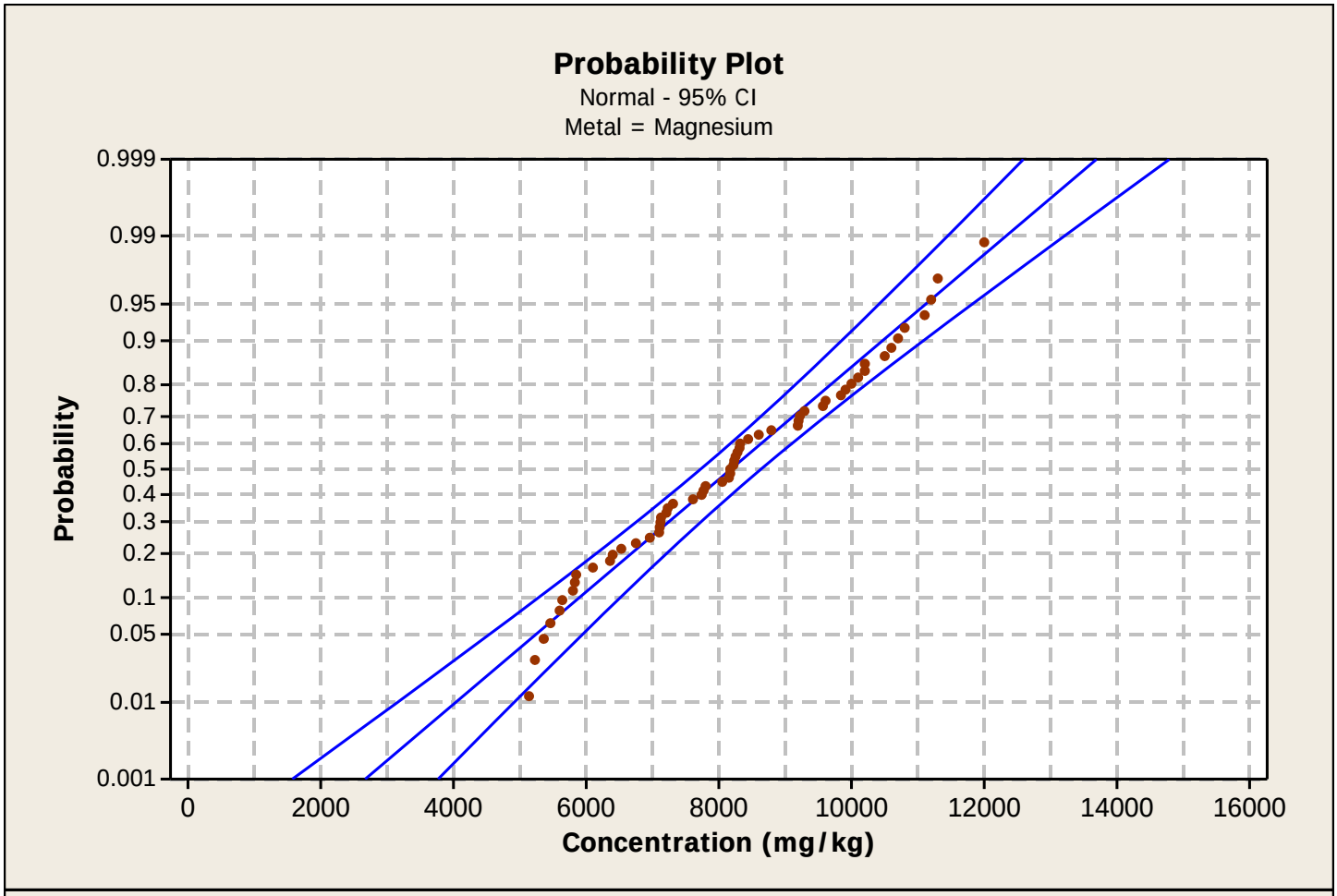

Boxplot
Metal = Iron
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
20000
17500
15000
12500
10000
7500
5000
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

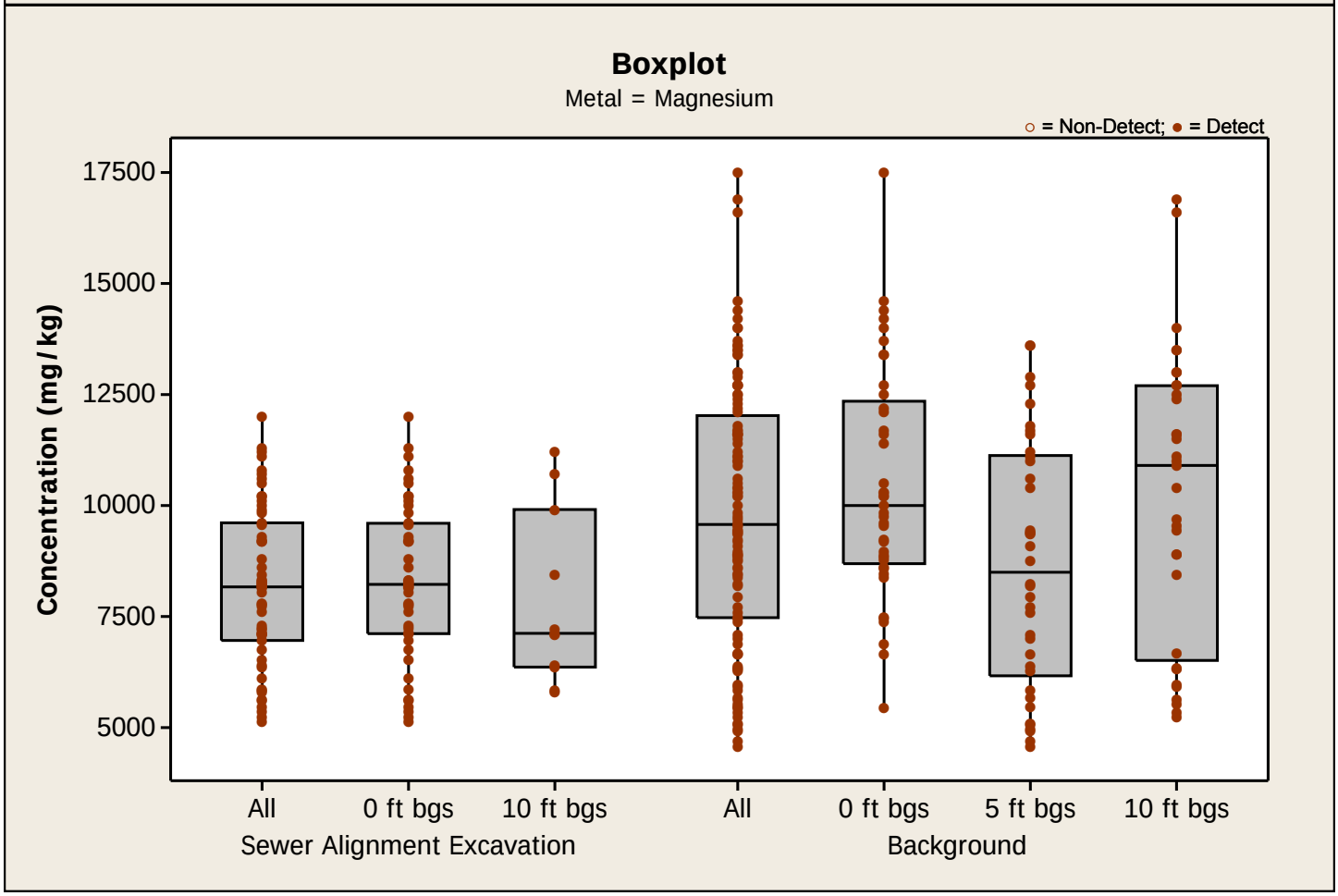

Probability Plot
Normal - 95% CI
Metal = Lead
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-500
-250
0
250
500
750
Concentration (mg/kg)

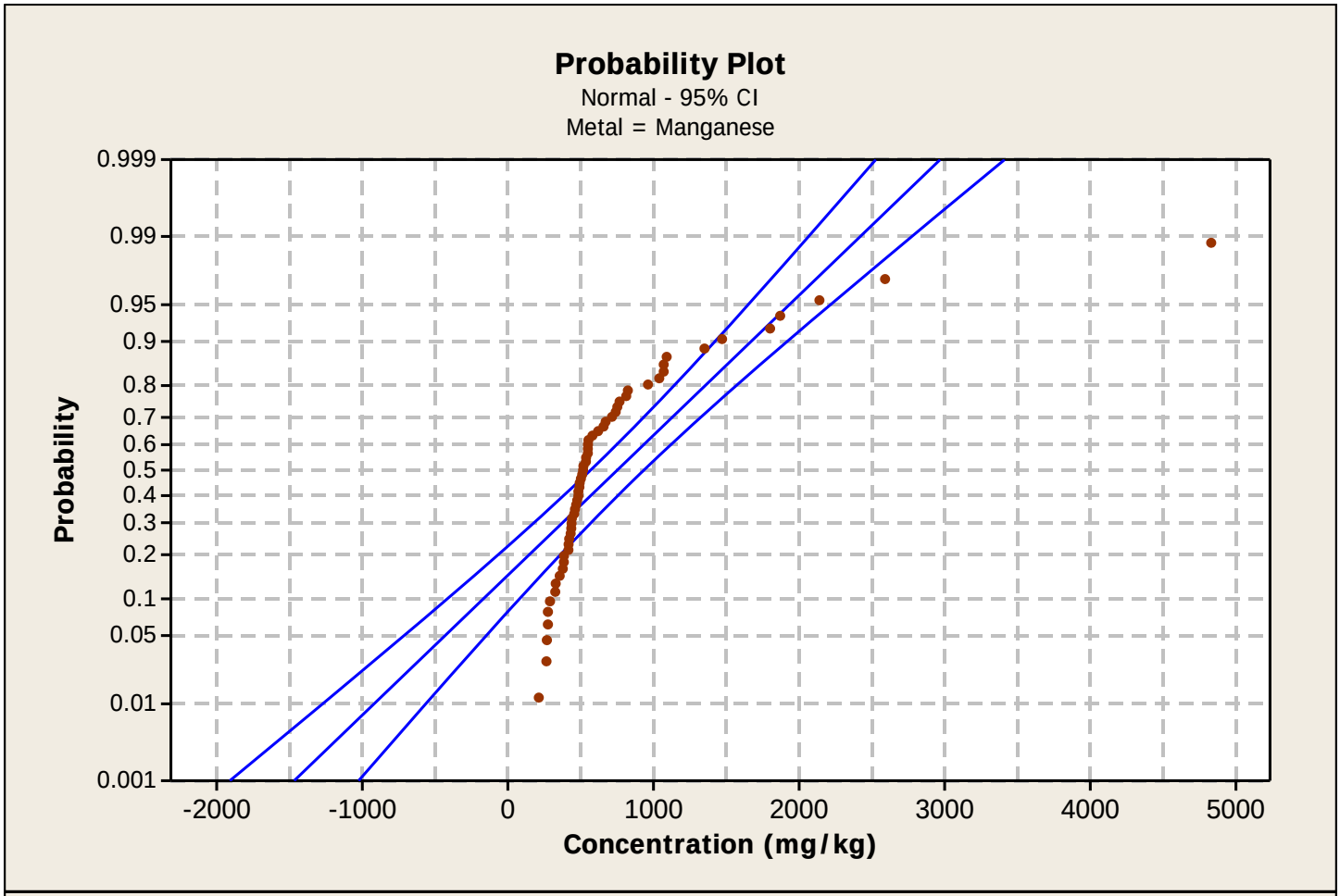

Boxplot
Metal = Lead
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
700
600
500
400
300
200
100
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

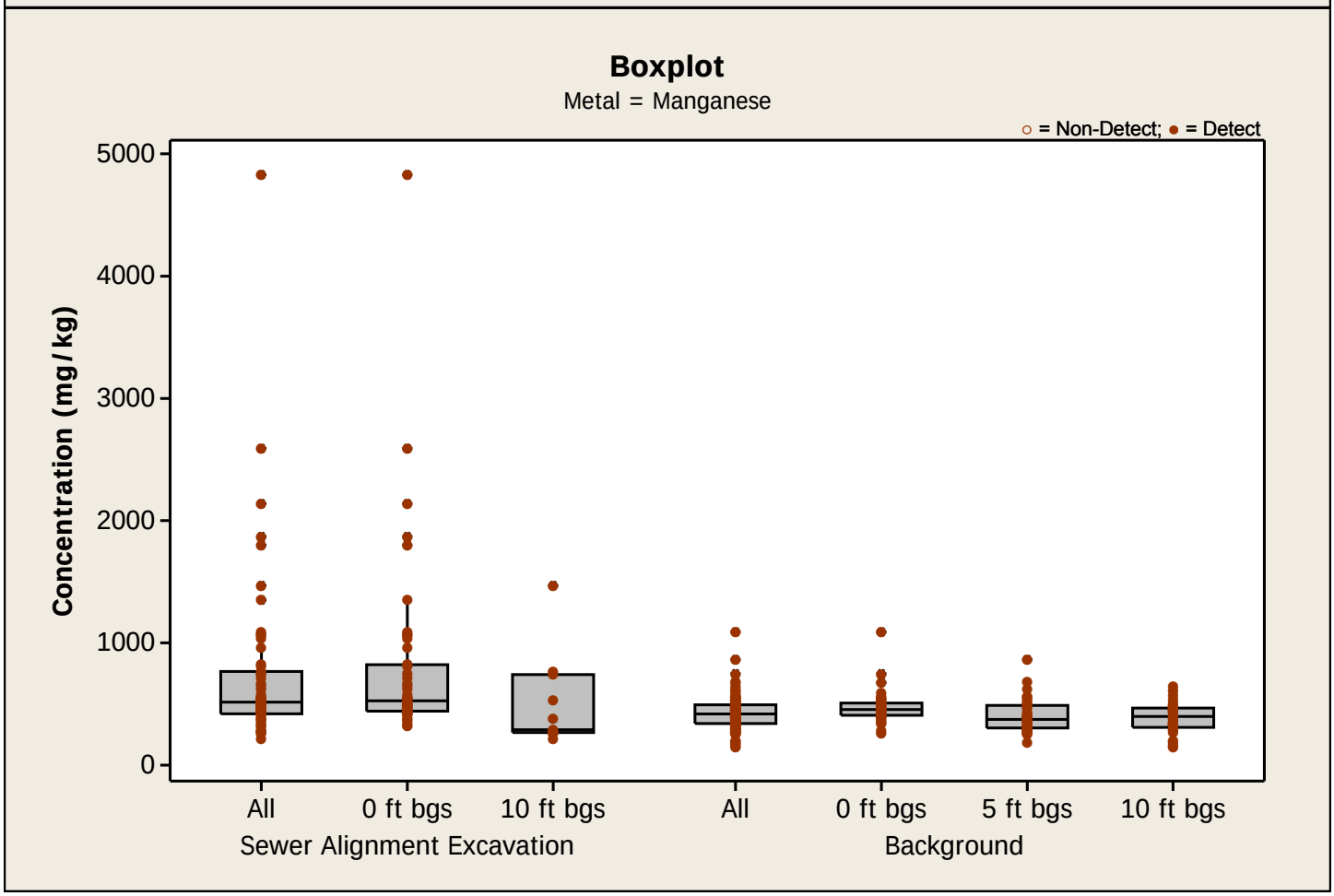

Probability Plot
Normal - 95% CI
Metal = Lithium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-20
-10
0
10
20
30
Concentration (mg/kg)

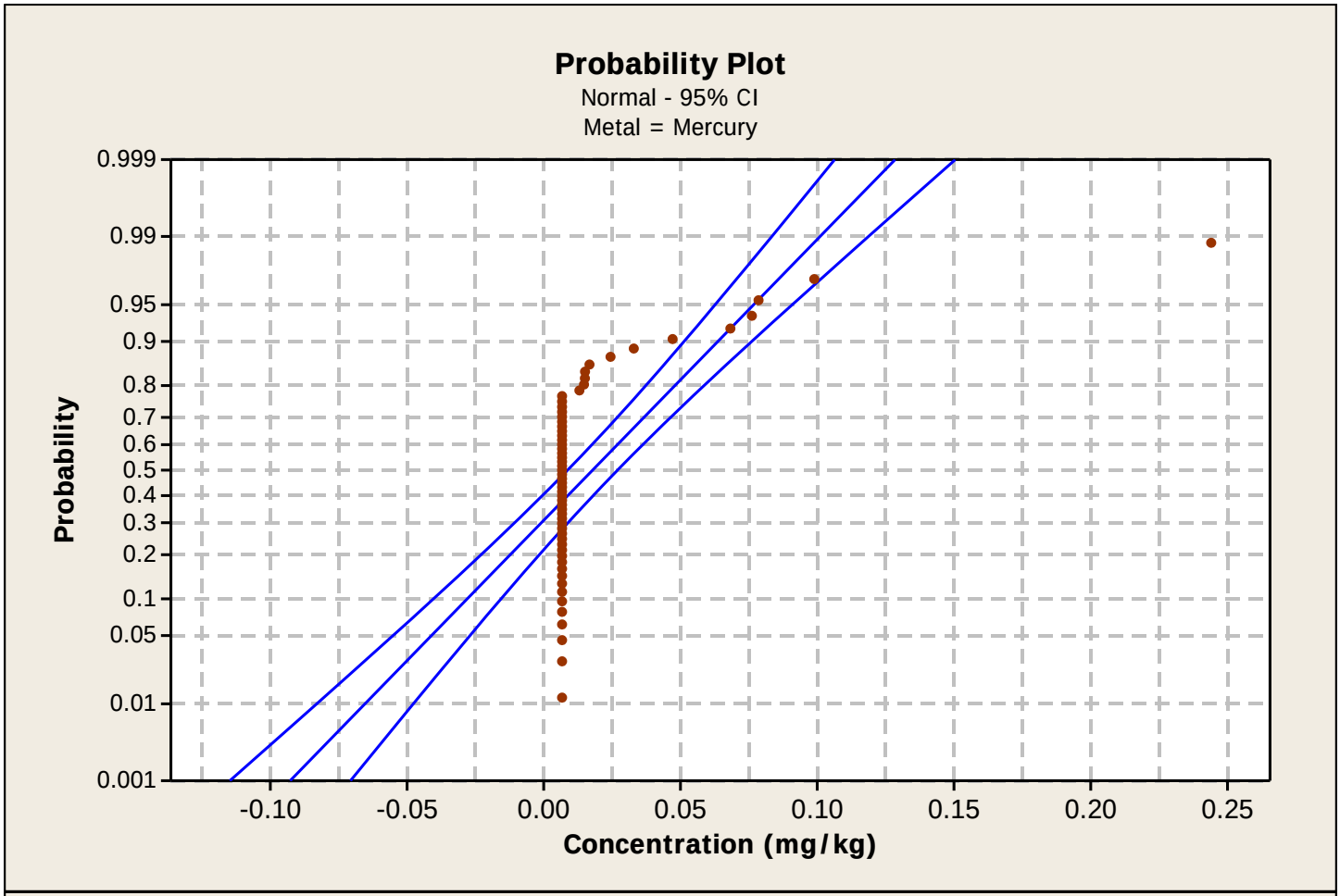

Boxplot
Metal = Lithium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
25
20
15
10
5
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

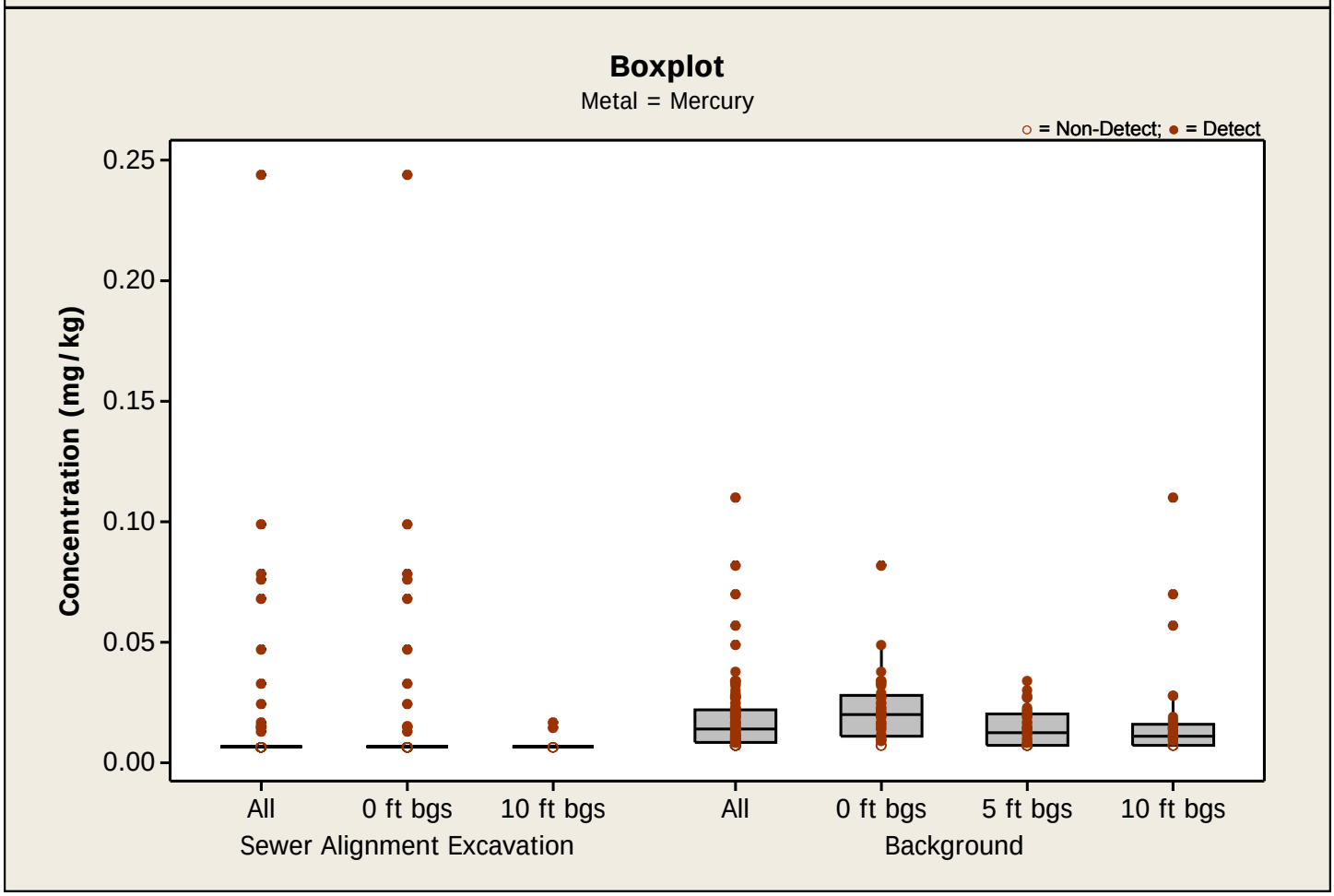

Probability Plot
Normal - 95% CI
Metal = Magnesium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
2000
4000
6000
8000
10000
12000
14000
16000
Concentration (mg/kg)

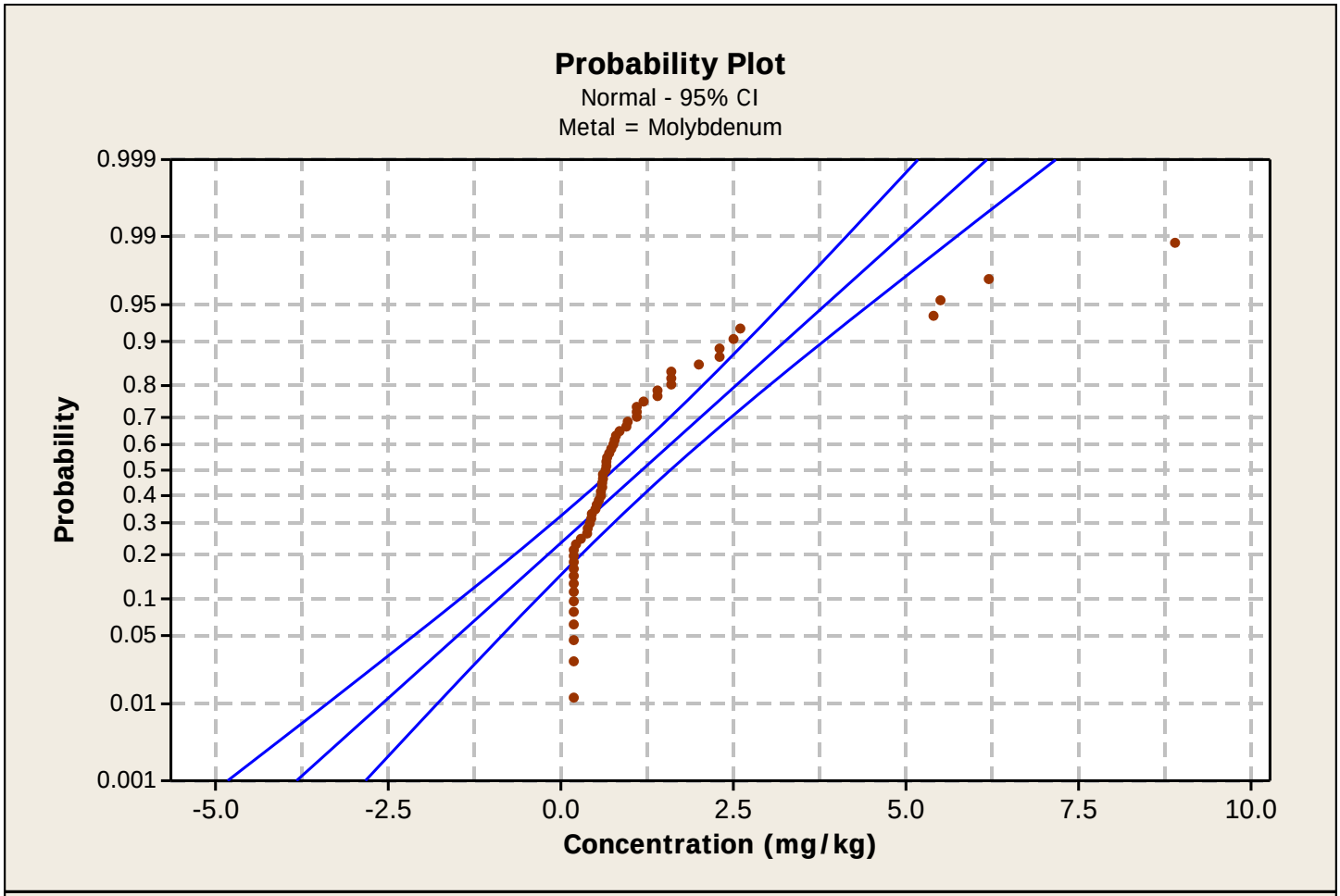

Boxplot
Metal = Magnesium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
17500
15000
12500
10000
7500
5000
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

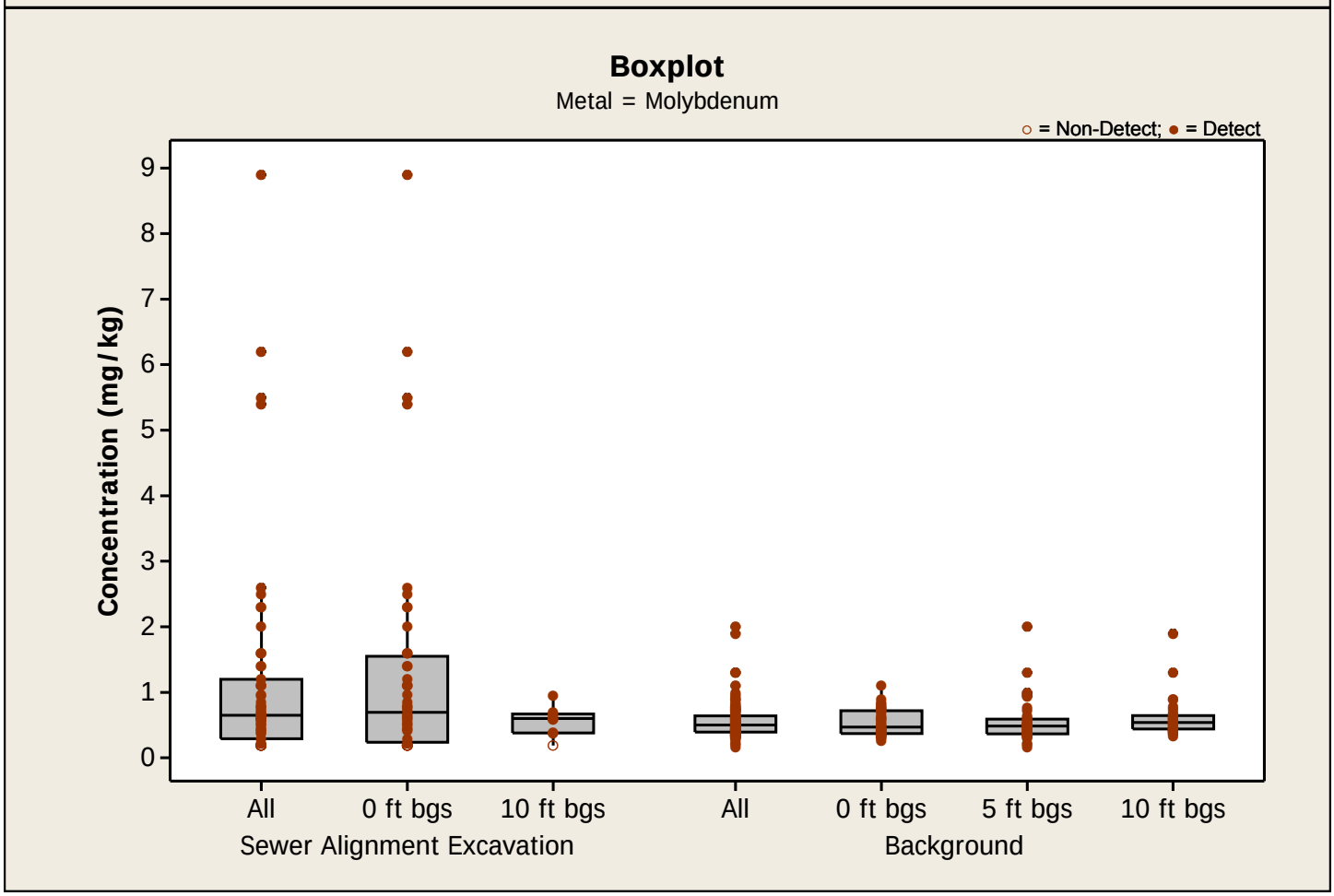

Probability Plot
Normal - 95% CI
Metal = Manganese
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-2000
-1000
0
1000
2000
3000
4000
5000
Concentration (mg/kg)

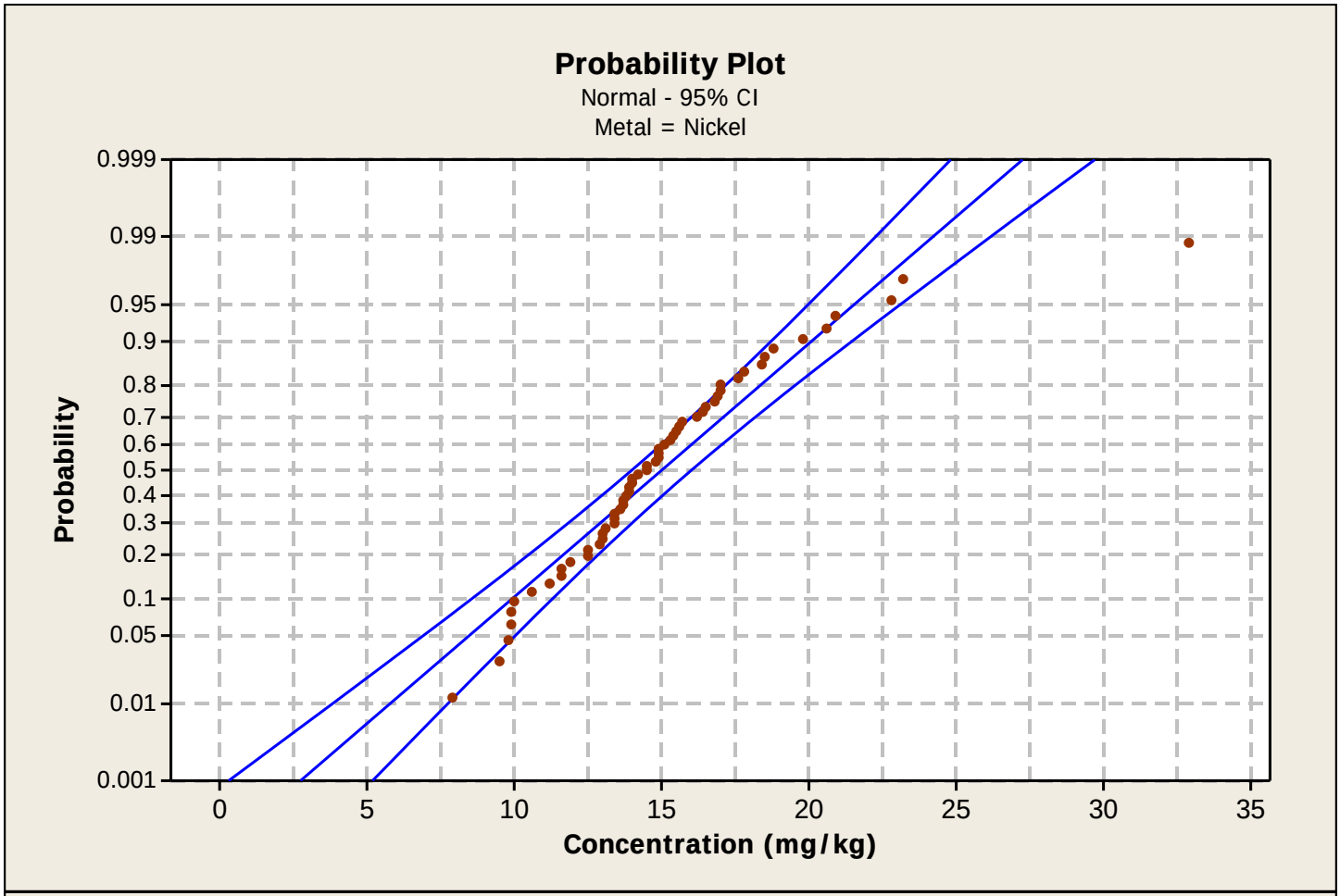

Boxplot
Metal = Manganese
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
5000
4000
3000
2000
1000
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

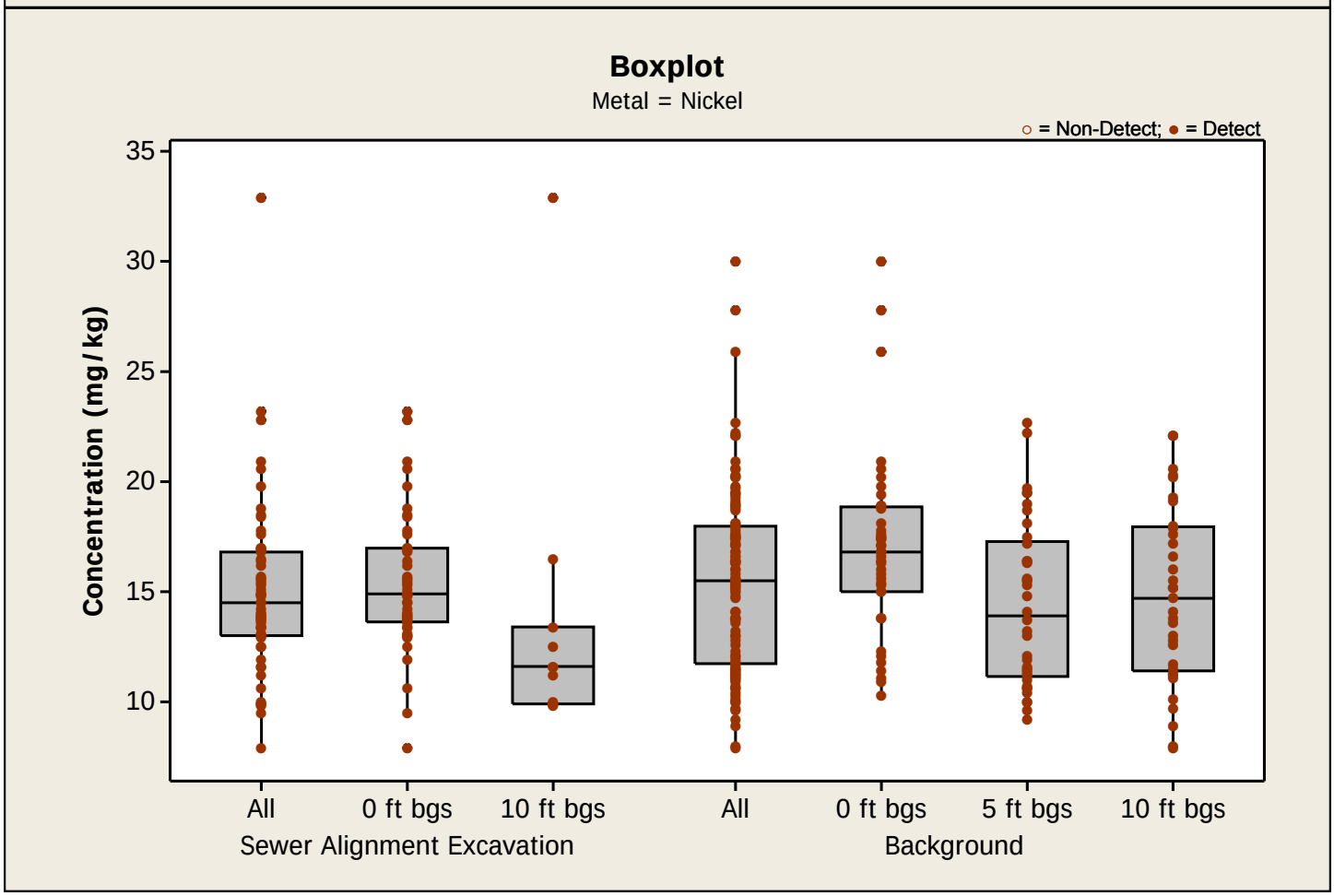

Probability Plot
Normal - 95% CI
Metal = Mercury
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.10
-0.05
0.00
0.05
0.10
0.15
0.20
0.25
Concentration (mg/kg)

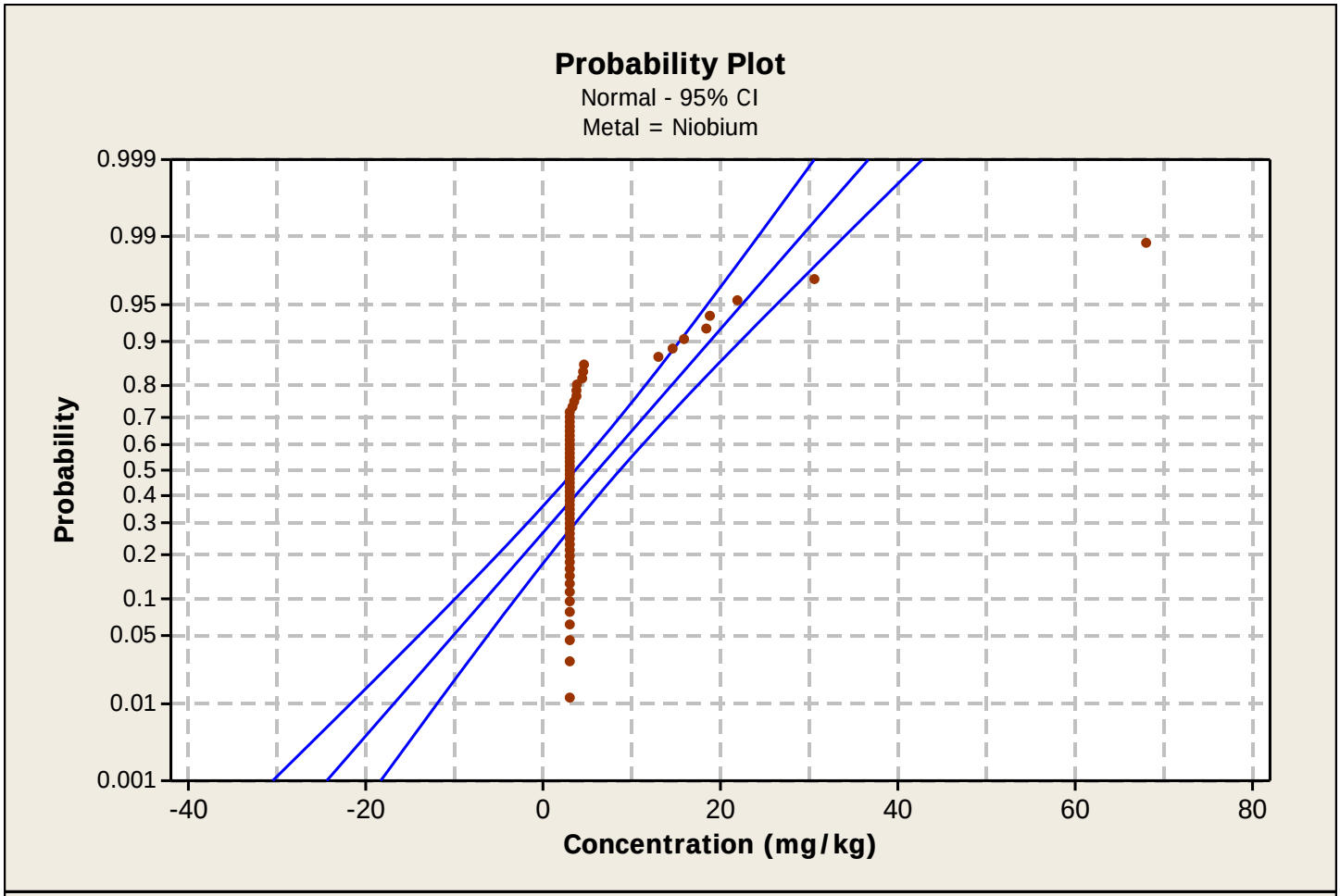

Boxplot
Metal = Mercury
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
0.25
0.20
0.15
0.10
0.05
0.00
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

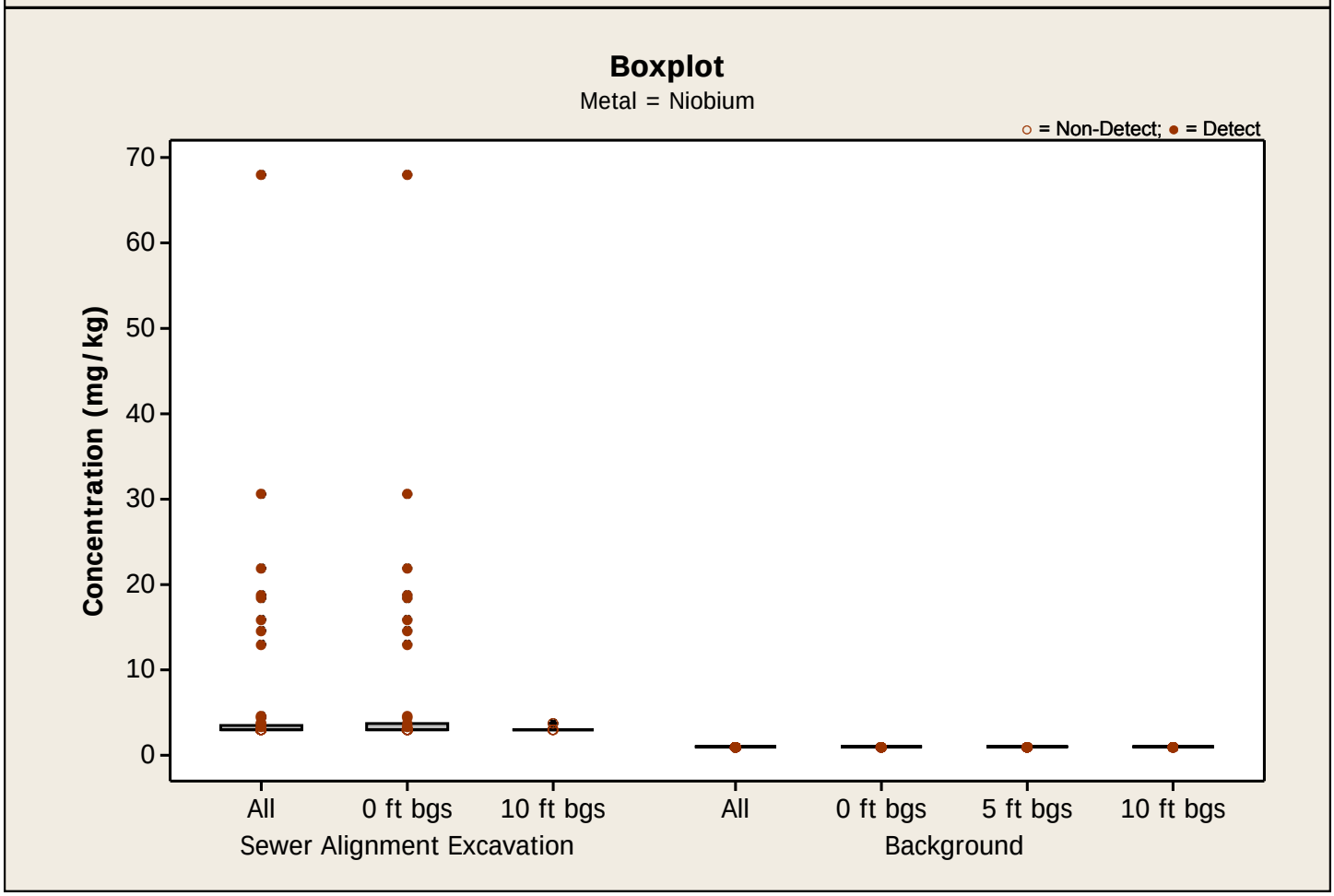

Probability Plot
Normal - 95% CI
Metal = Molybdenum
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-5.0
-2.5
0.0
2.5
5.0
7.5
10.0
Concentration (mg/kg)

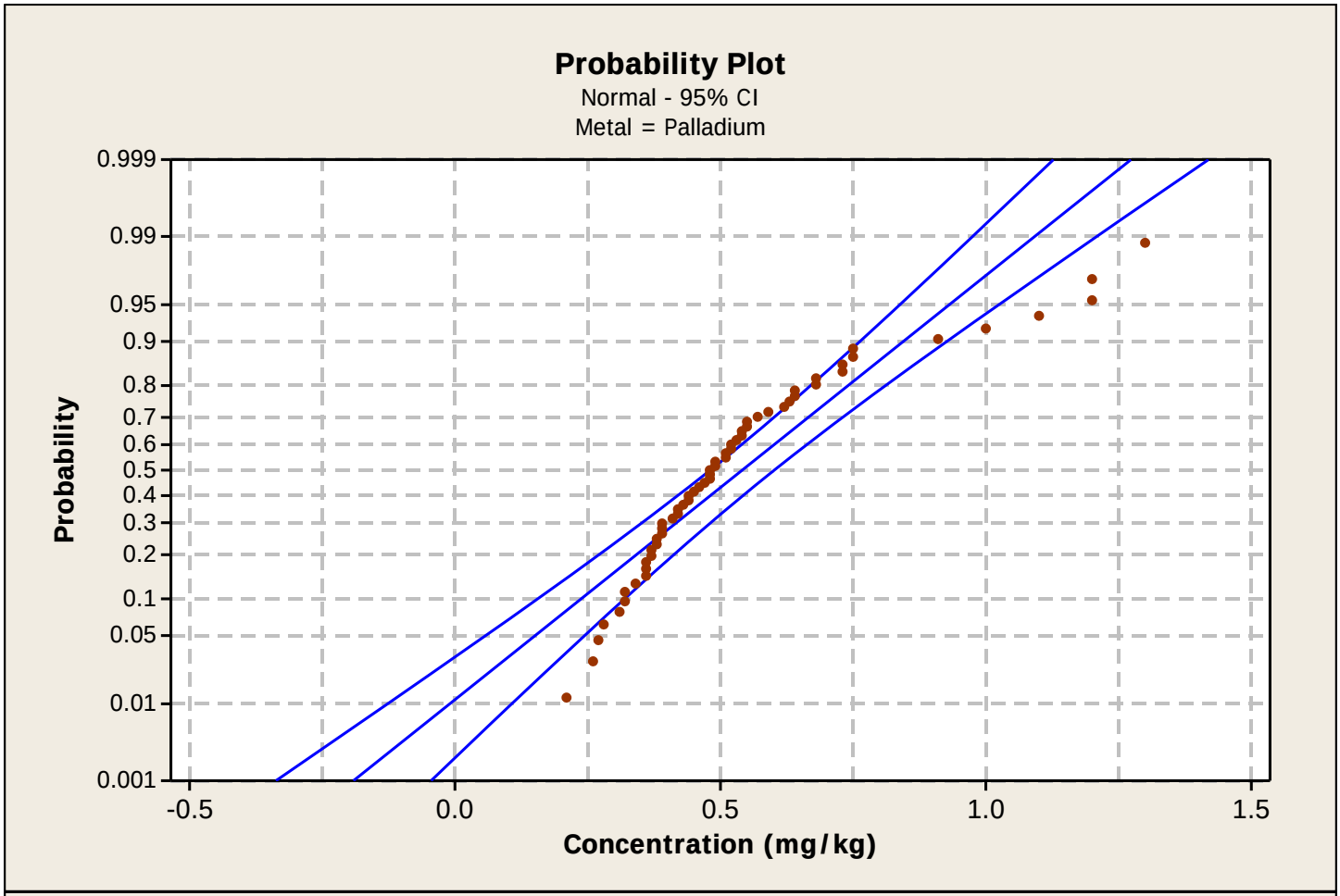

Boxplot
Metal = Molybdenum
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
0
1
2
3
4
5
6
7
8
9
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

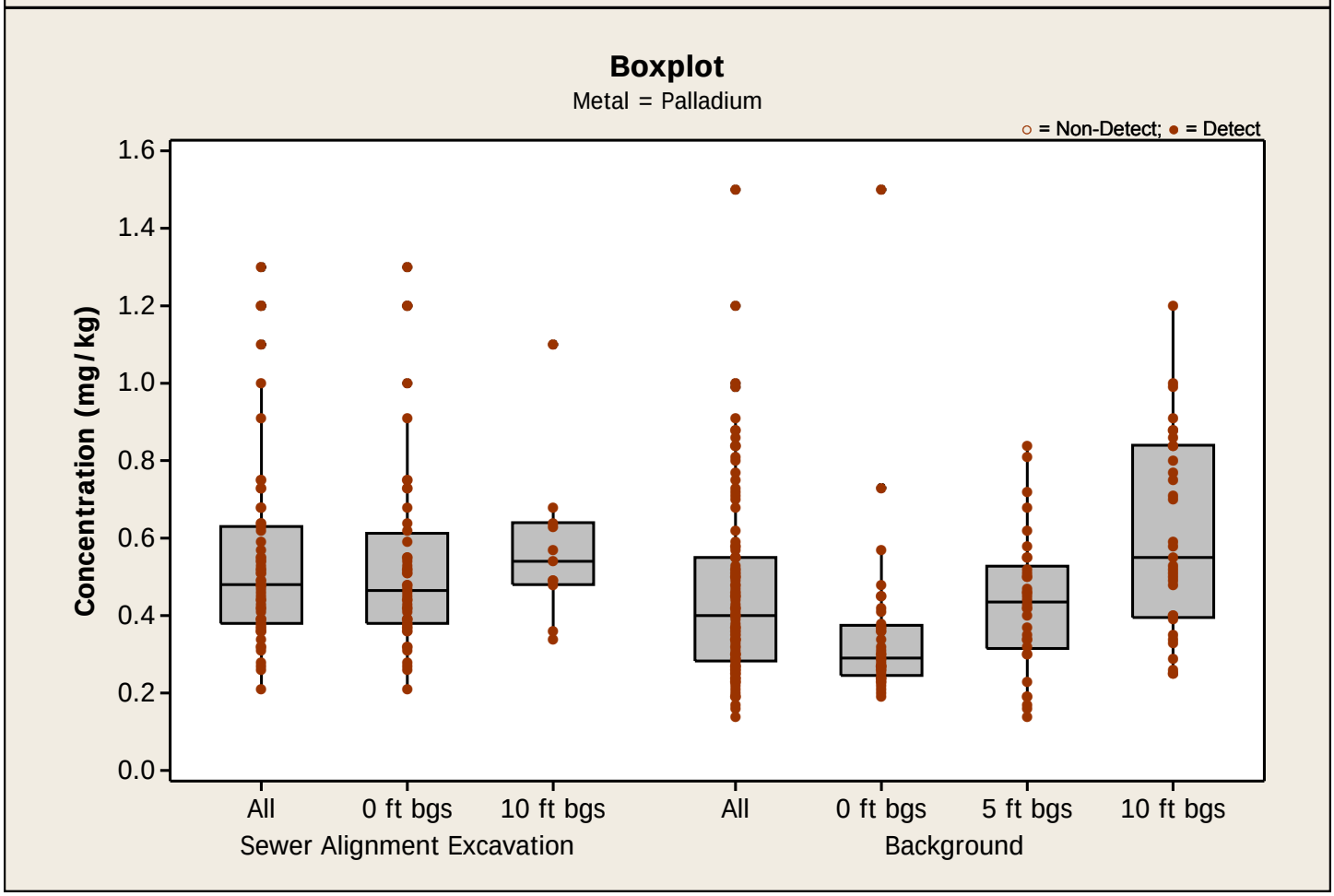

Probability Plot
Normal - 95% CI
Metal = Nickel
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
5
10
15
20
25
30
35
Concentration (mg/kg)

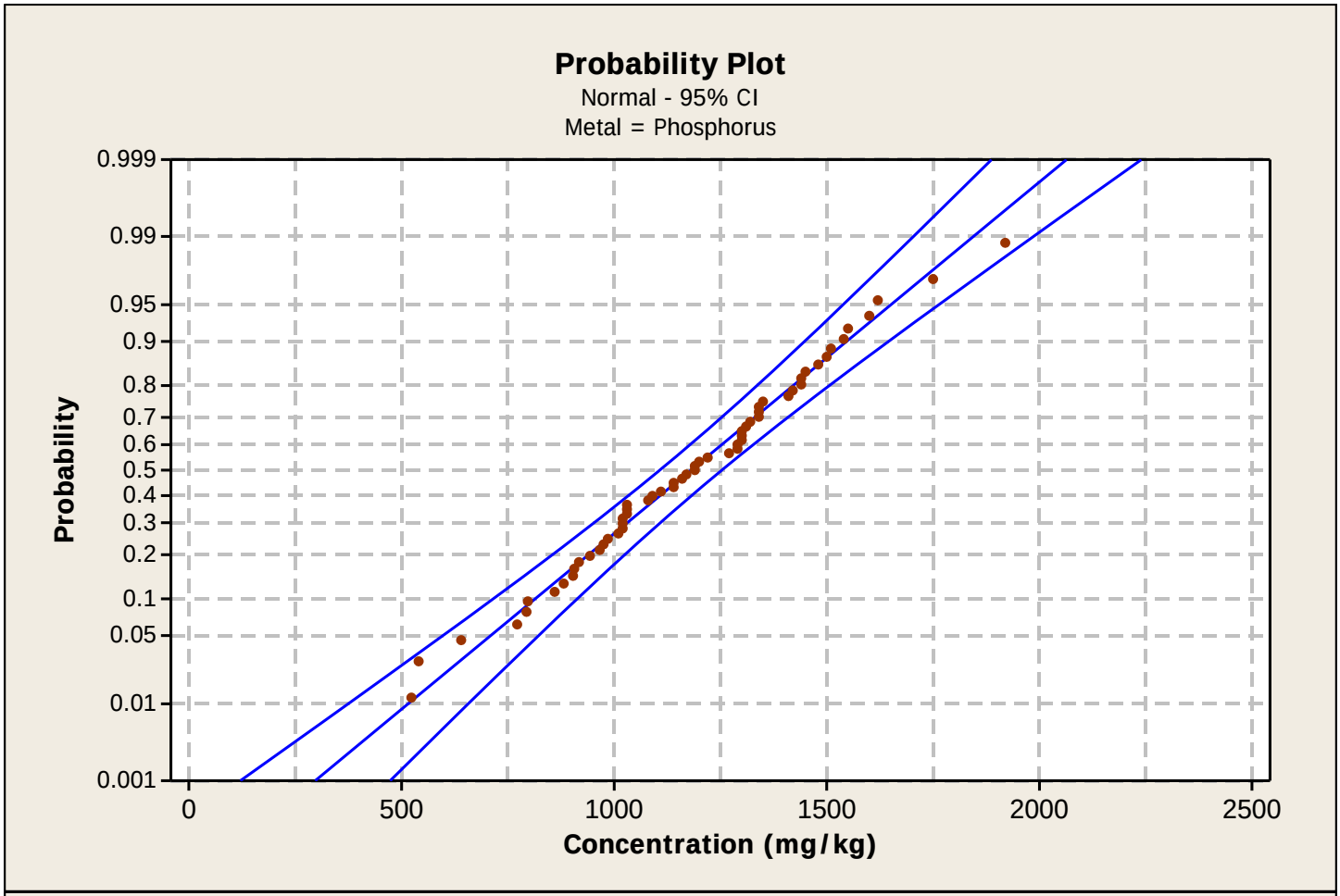

Boxplot
Metal = Nickel
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
35
30
25
20
15
10
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

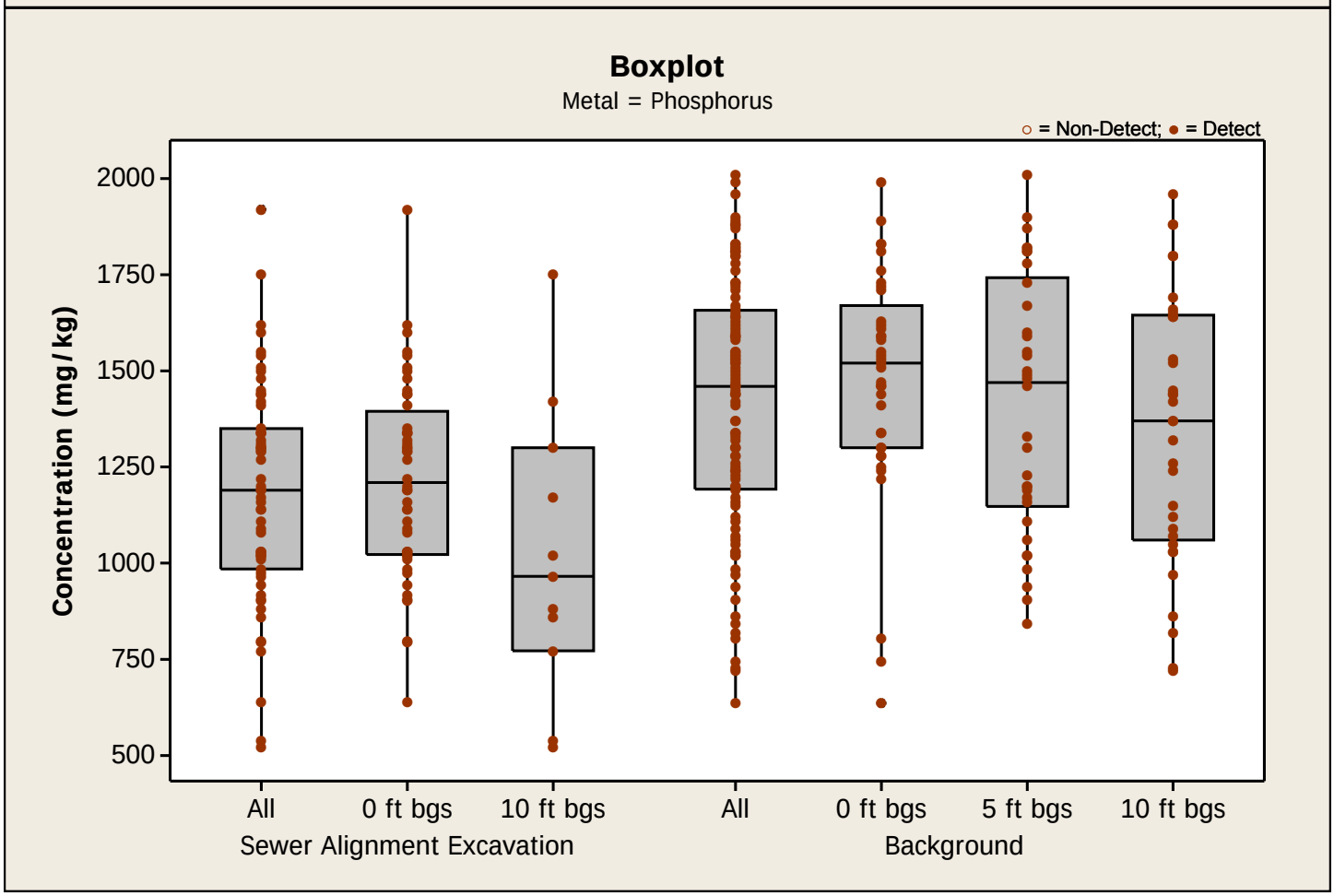

Probability Plot
Normal - 95% CI
Metal = Niobium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-40
-20
0
20
40
60
80
Concentration (mg/kg)

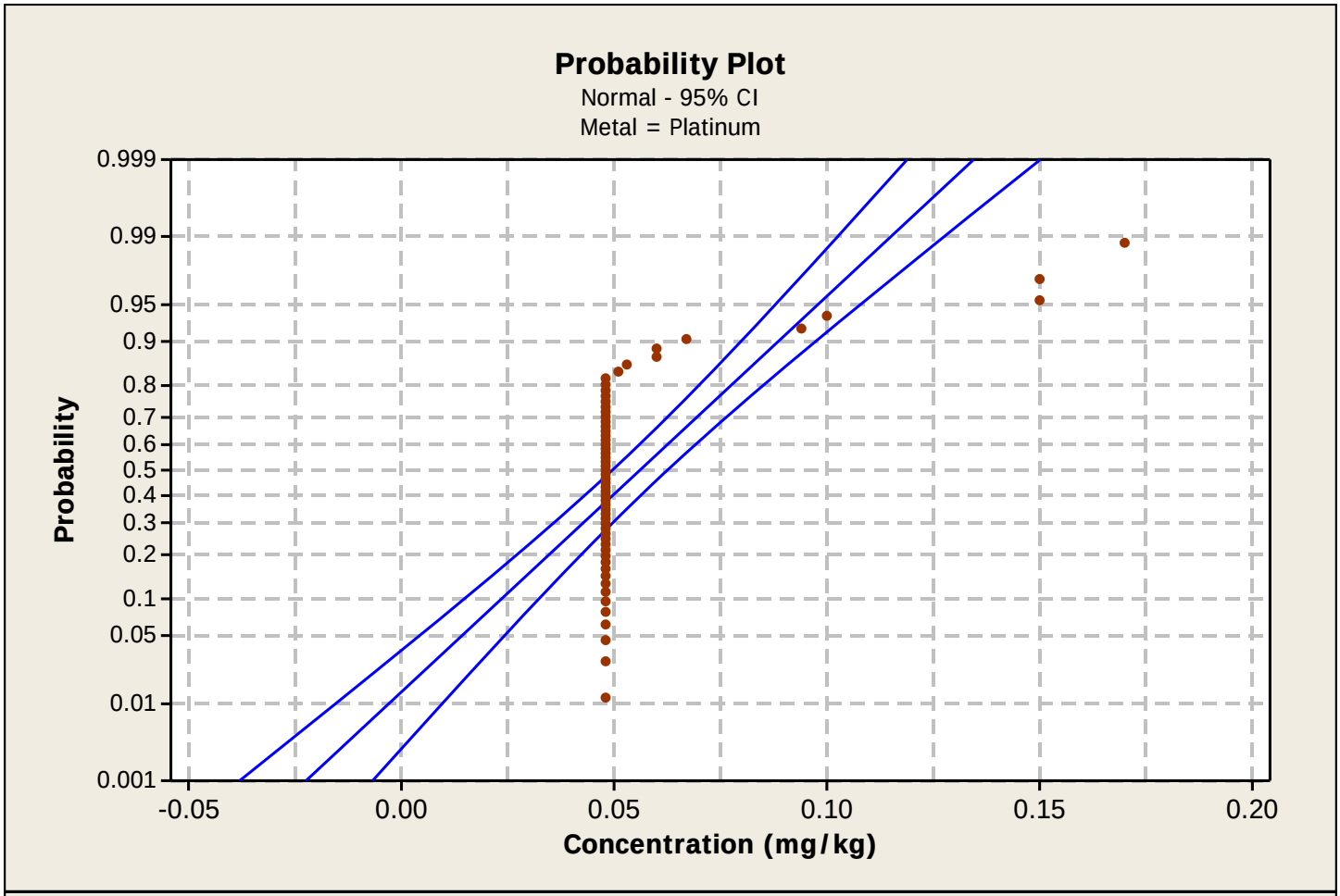

Boxplot
Metal = Niobium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
70
60
50
40
30
20
10
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

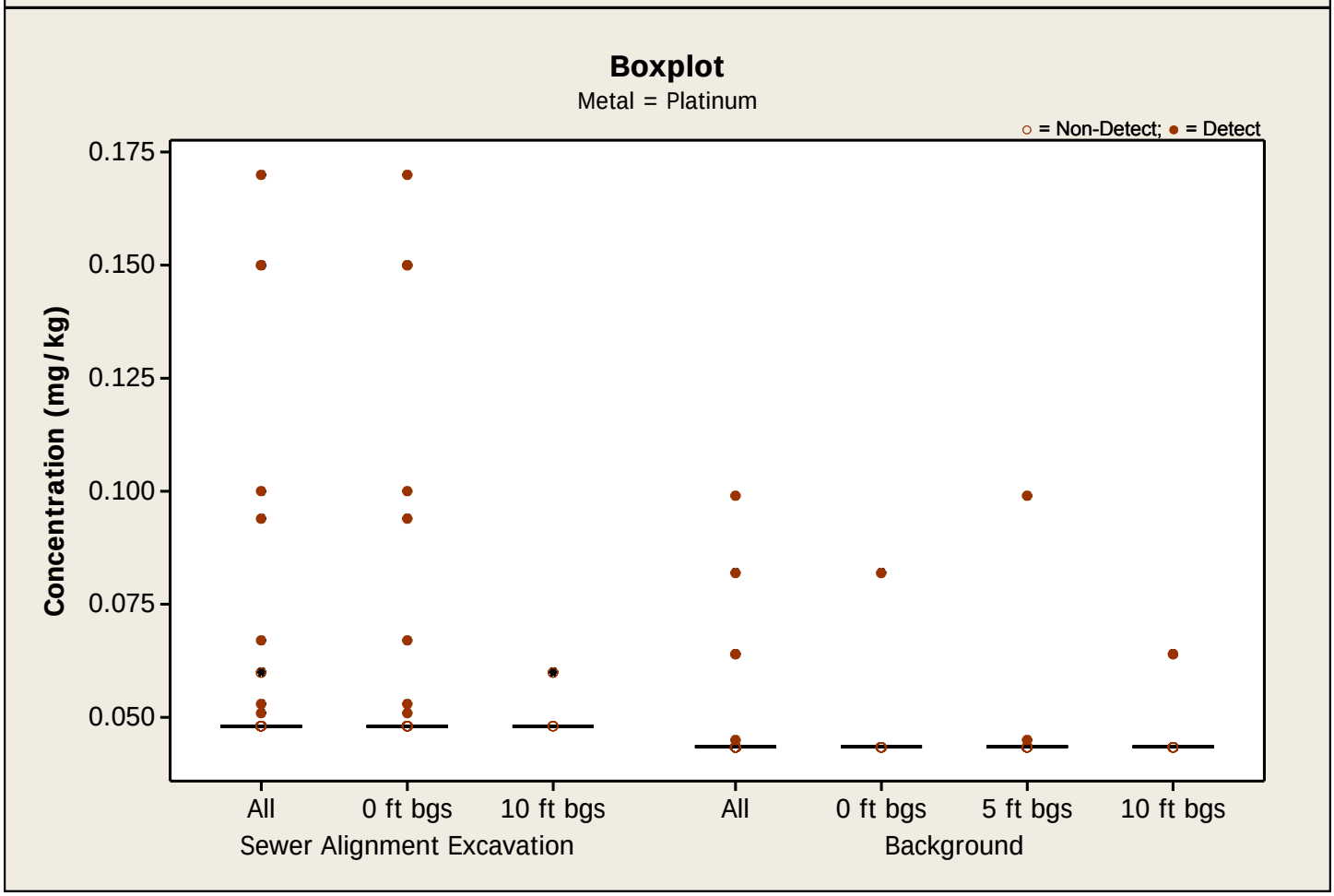

Probability Plot
Normal - 95% CI
Metal = Palladium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.5
0.0
0.5
1.0
1.5
Concentration (mg/kg)

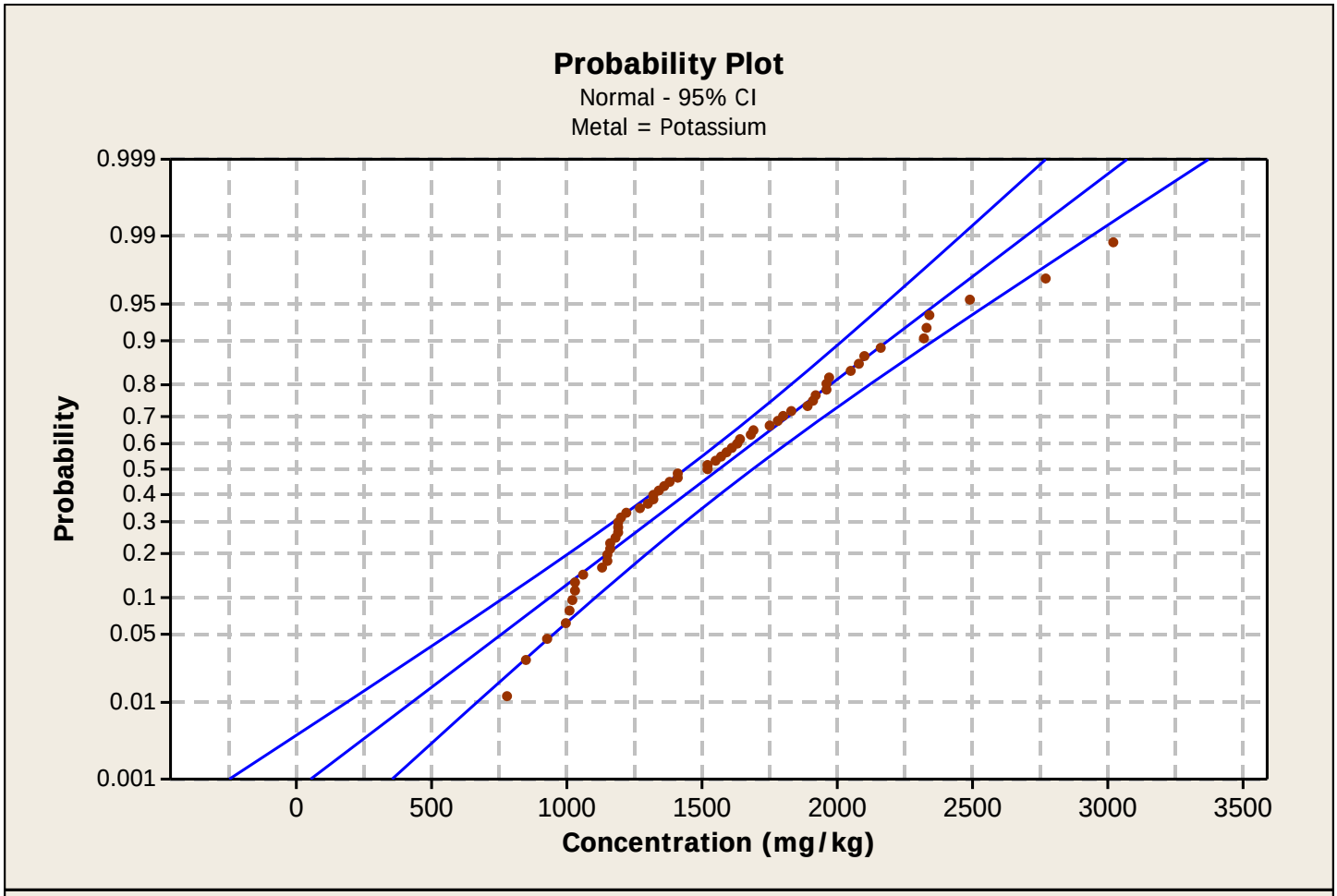

Boxplot
Metal = Palladium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

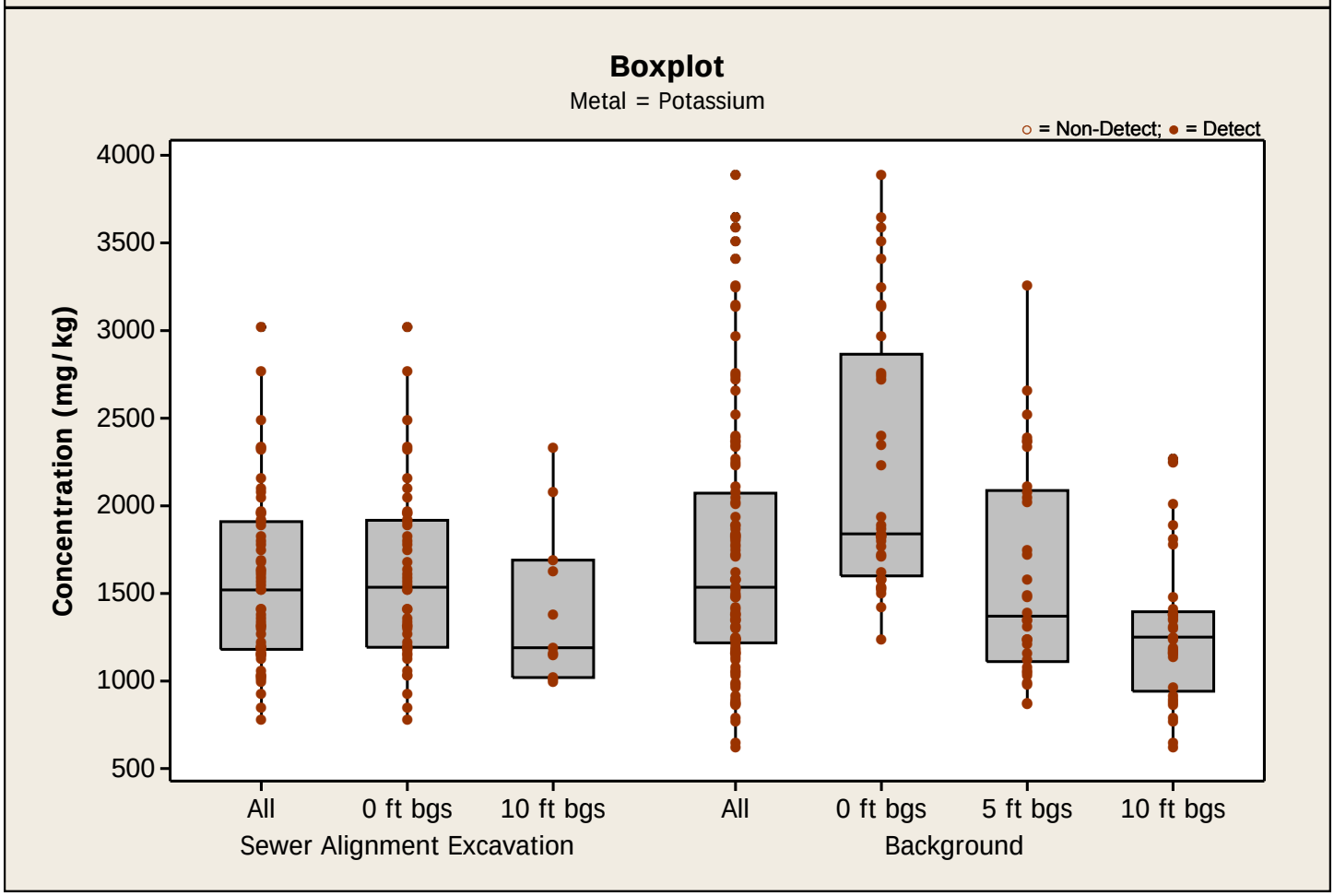

Probability Plot
Normal - 95% CI
Metal = Phosphorus
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
500
1000
1500
2000
2500
Concentration (mg/kg)

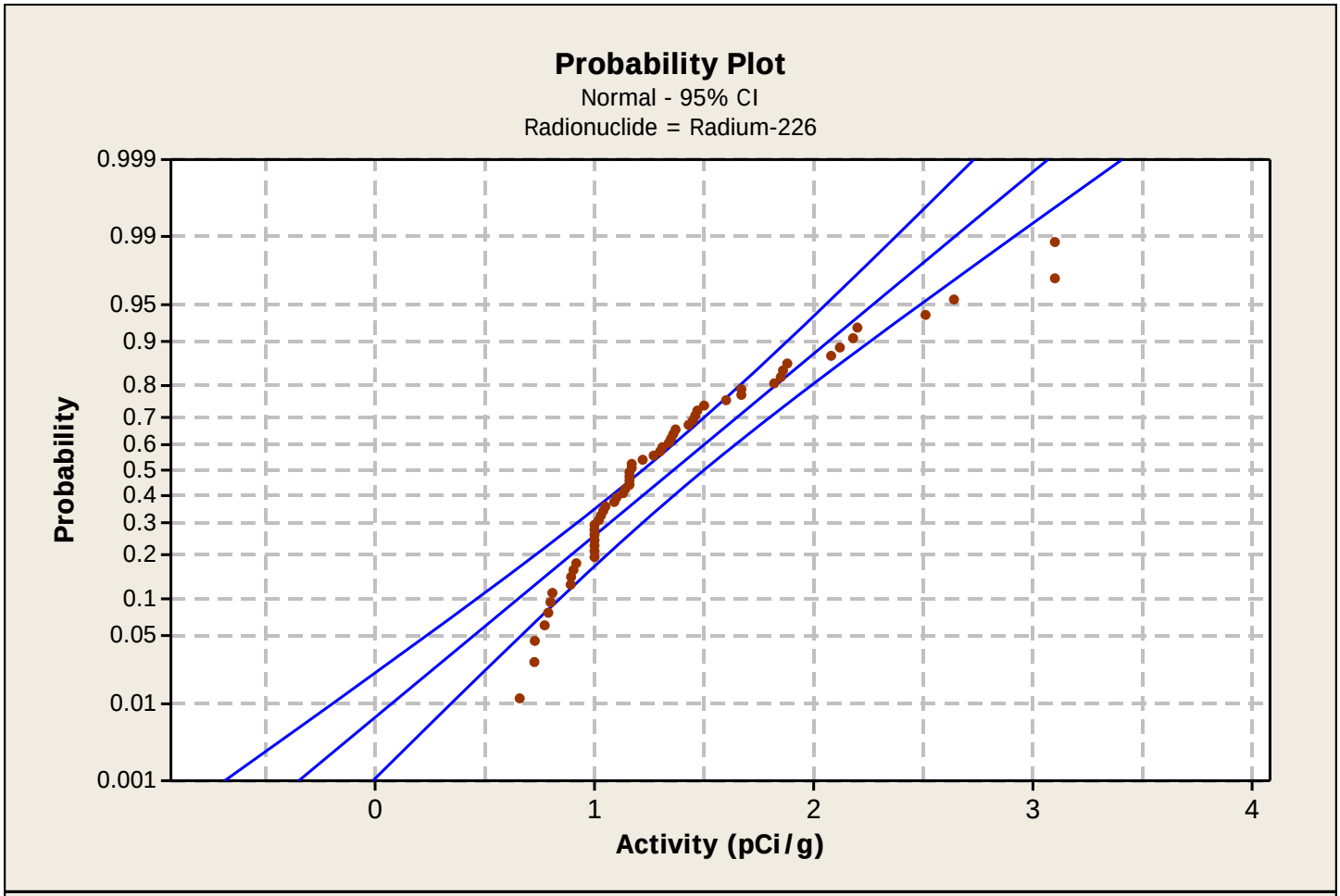

Boxplot
Metal = Phosphorus
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
2000
1750
1500
1250
1000
750
500
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

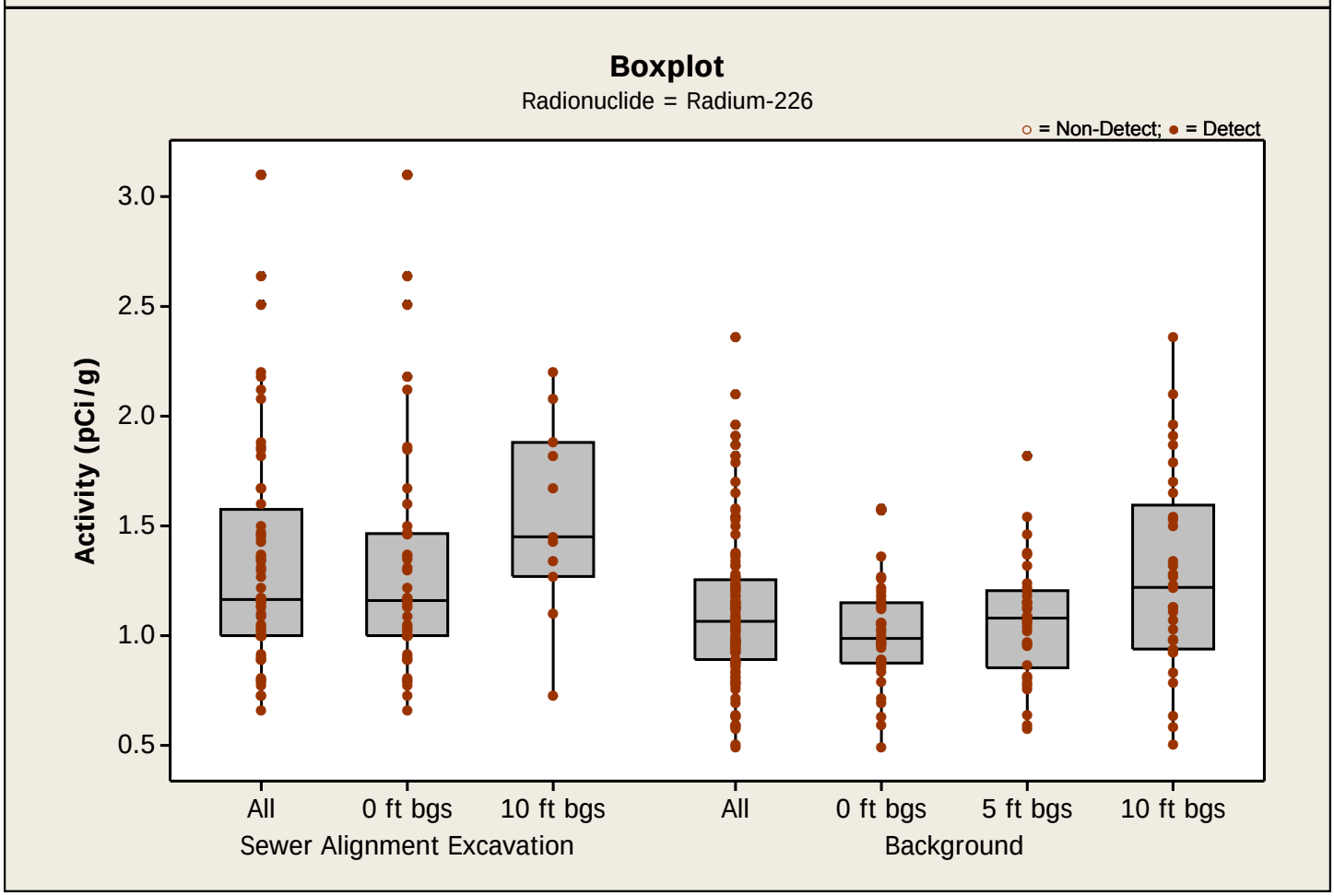

Probability Plot
Normal - 95% CI
Metal = Platinum
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.05
0.00
0.05
0.10
0.15
0.20
Concentration (mg/kg)

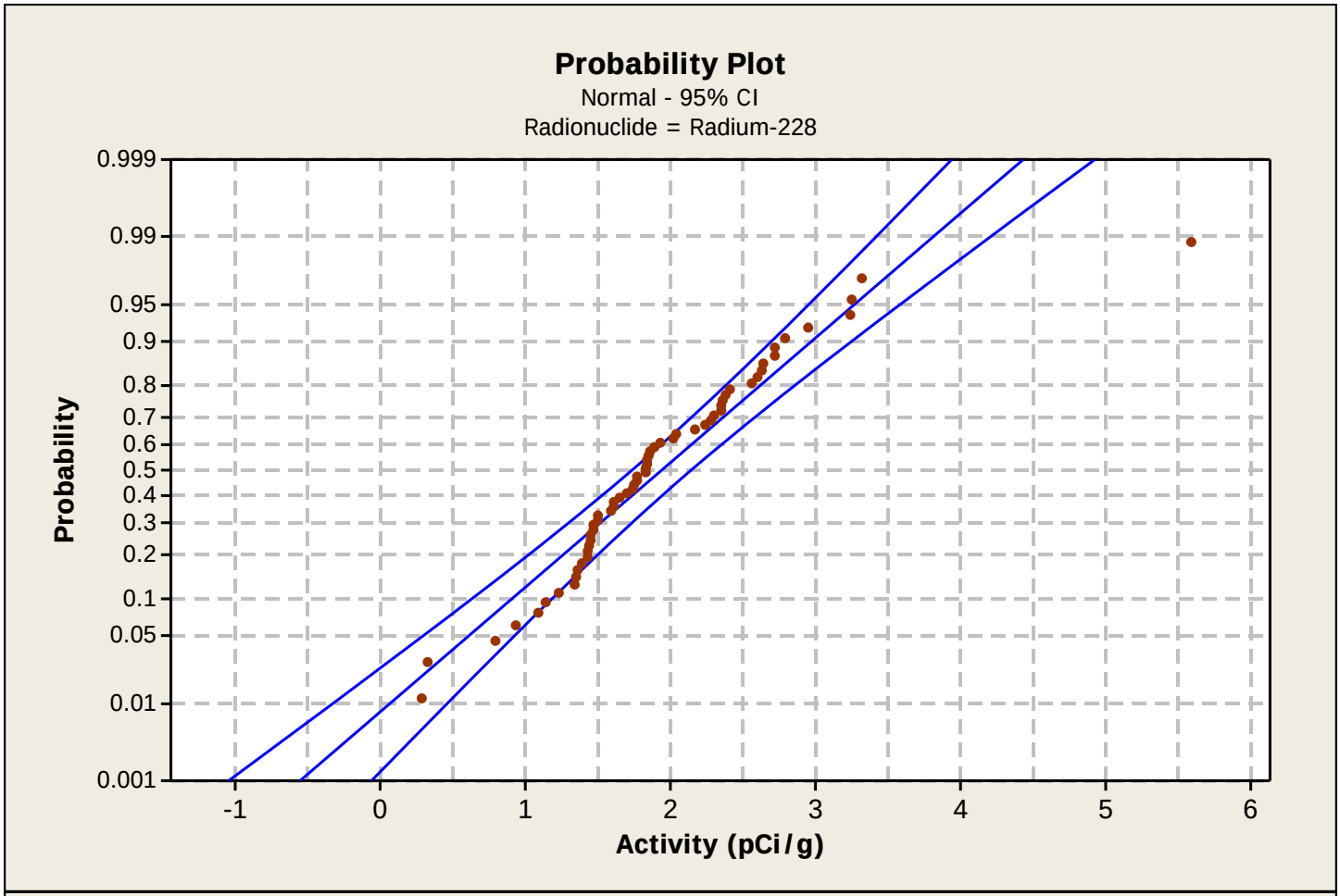

Boxplot
Metal = Platinum
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
0.175
0.150
0.125
0.100
0.075
0.050
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

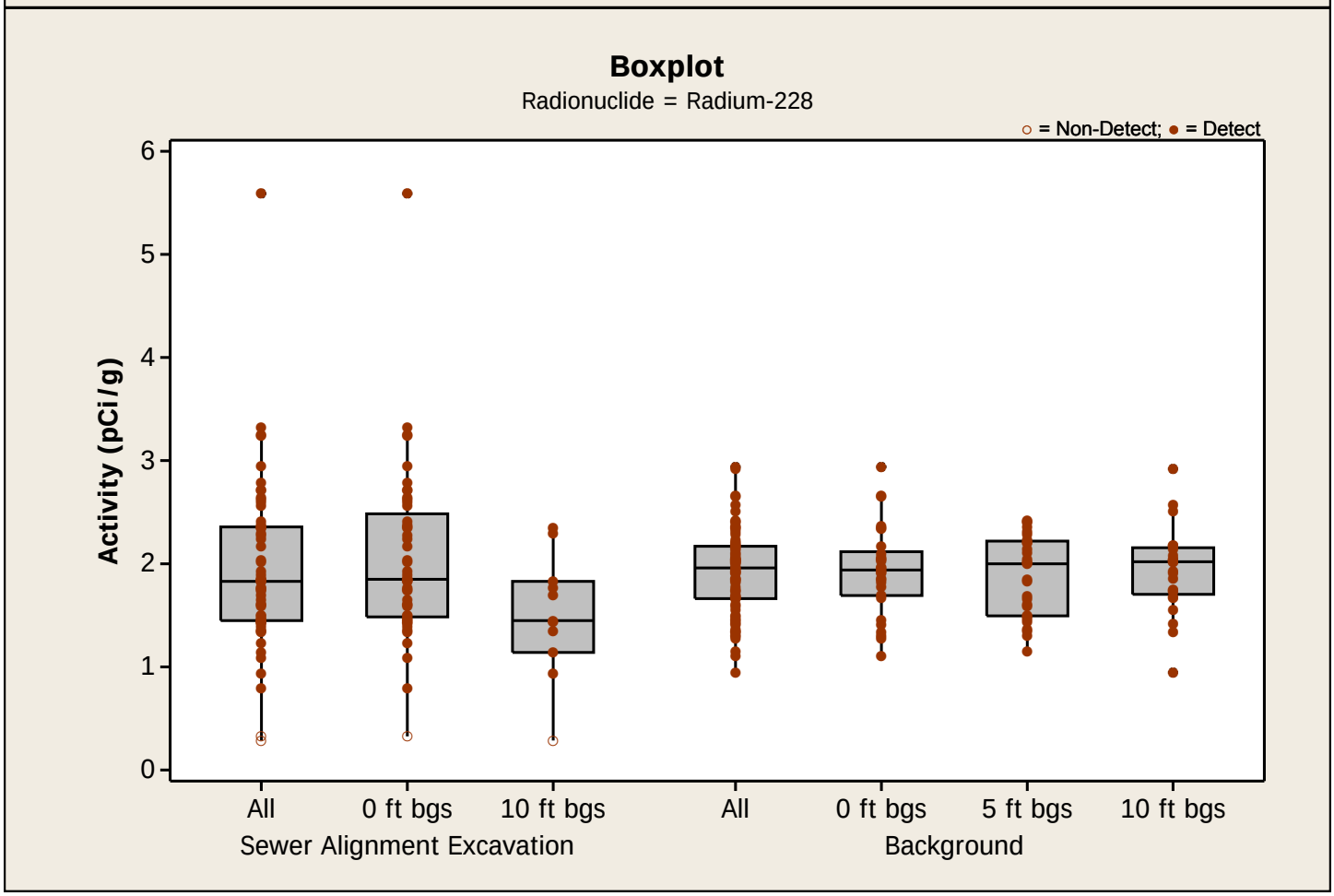

Probability Plot
Normal - 95% CI
Metal = Potassium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
500
1000
1500
2000
2500
3000
3500
Concentration (mg/kg)

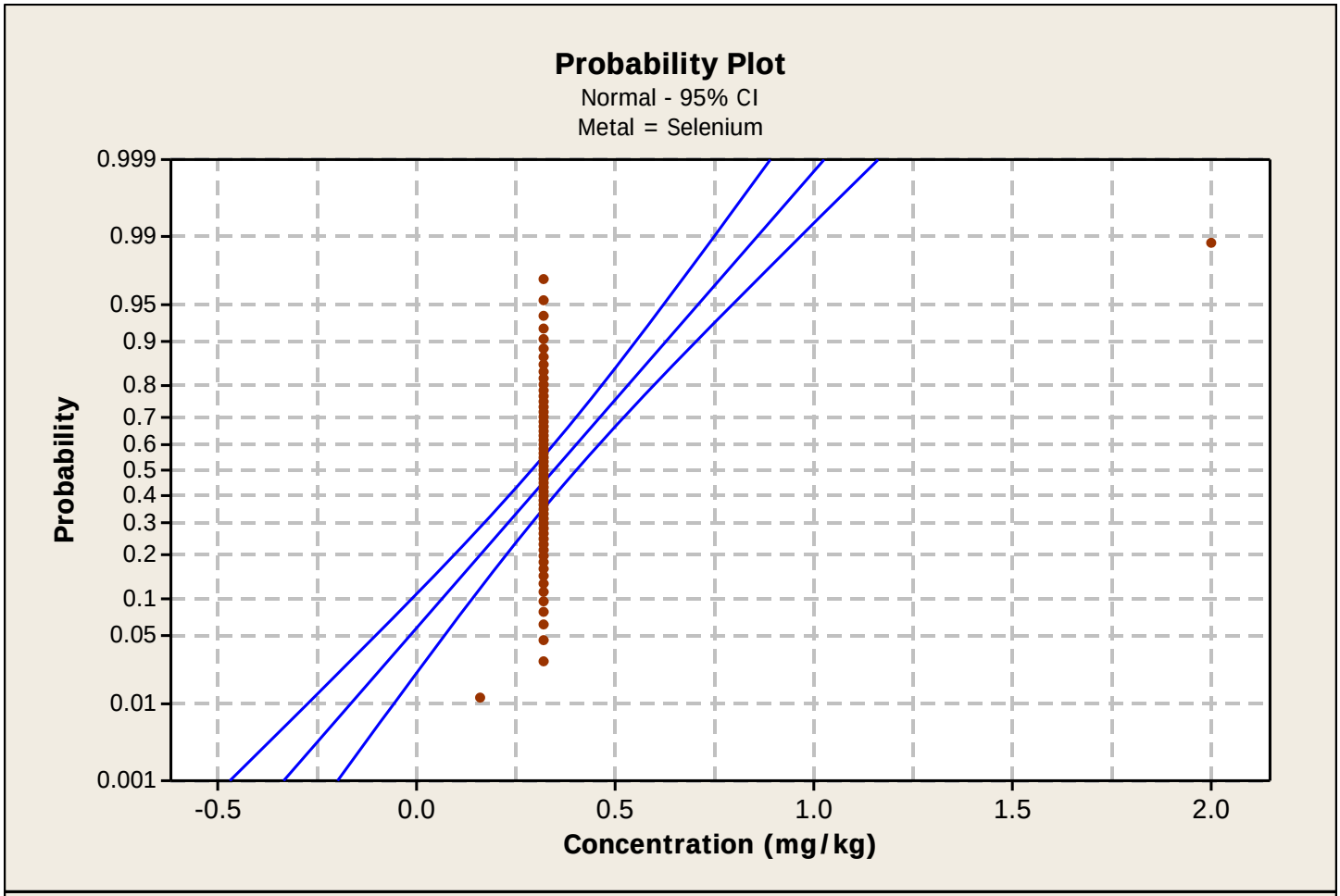

Boxplot
Metal = Potassium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
4000
3500
3000
2500
2000
1500
1000
500
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

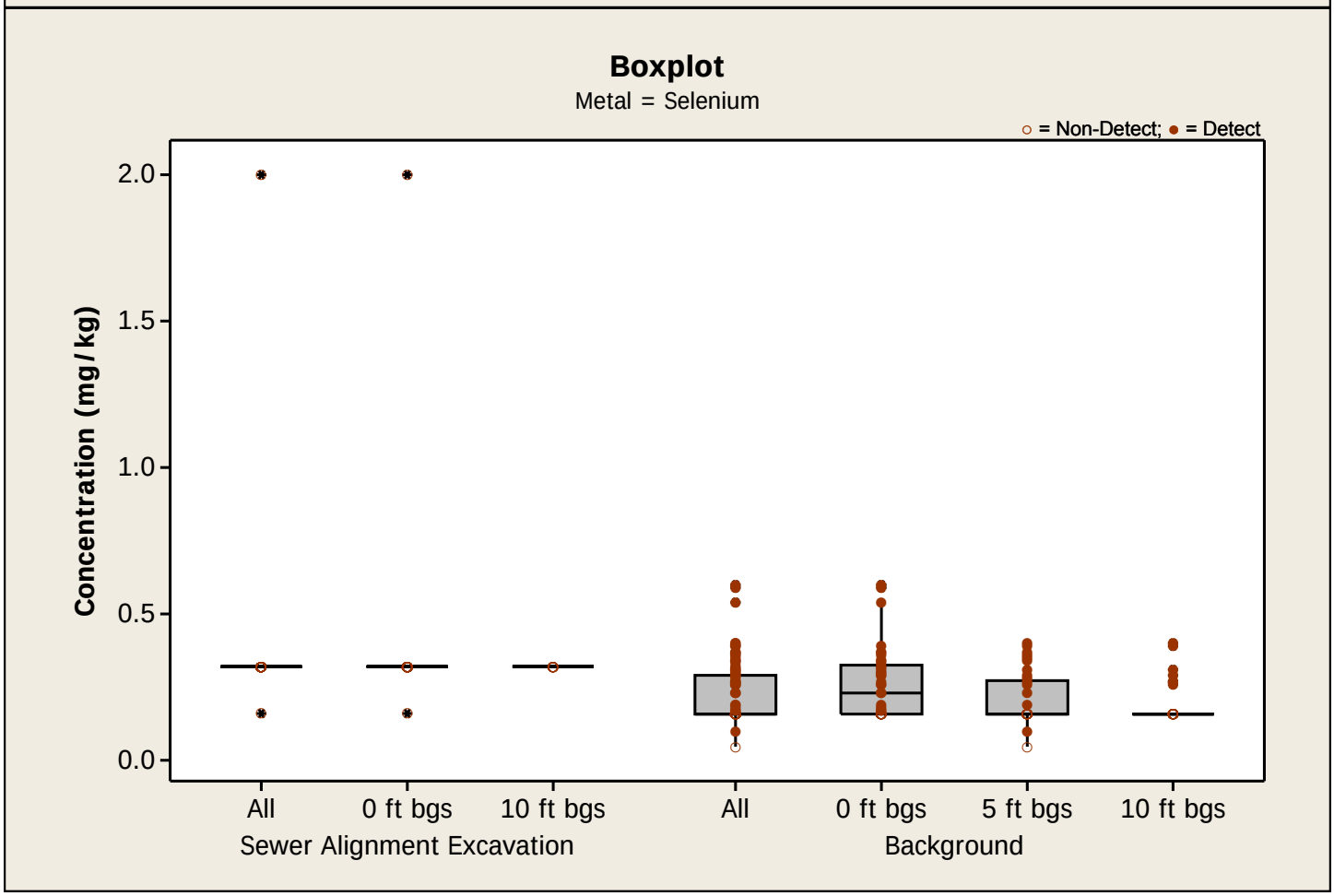

Probability Plot
Normal - 95% CI
Radionuclide = Radium-226
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
1
2
3
4
Activity (pCi/g)

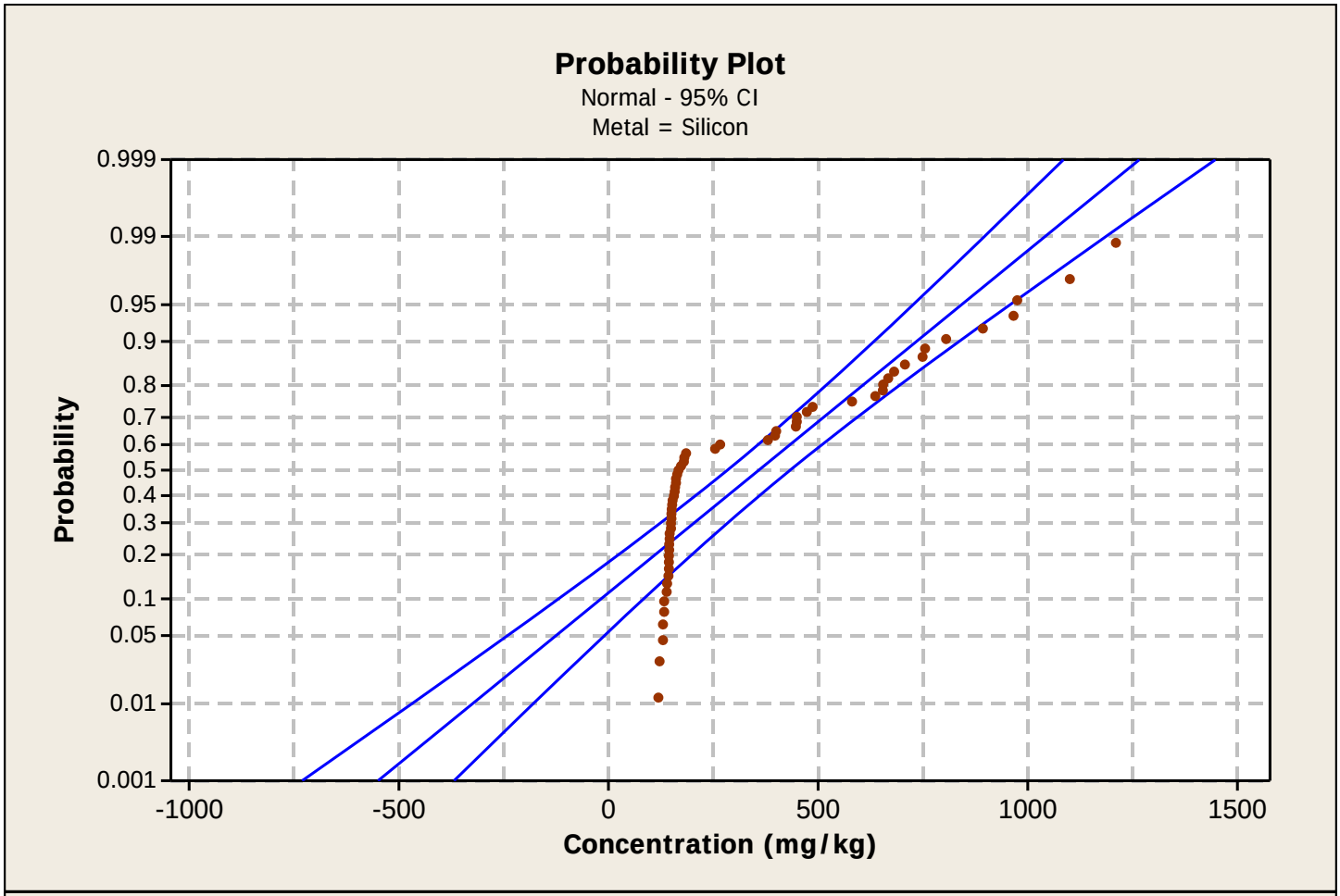

Boxplot
Radionuclide = Radium-226
○ = Non-Detect; ● = Detect
Activity (pCi/g)
3.0
2.5
2.0
1.5
1.0
0.5
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

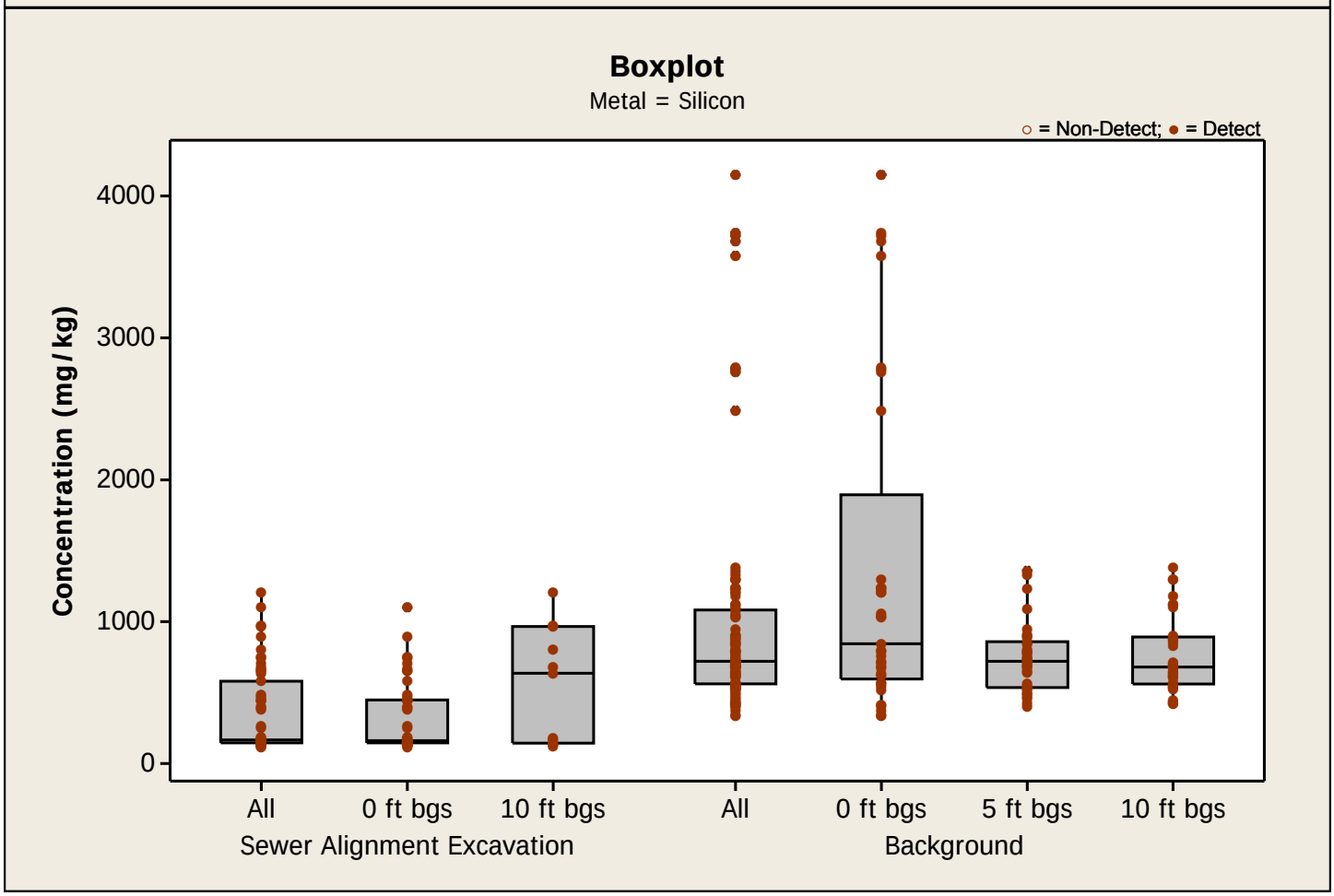

Probability Plot
Normal - 95% CI
Radionuclide = Radium-228
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1
0
1
2
3
4
5
6
Activity (pCi/g)

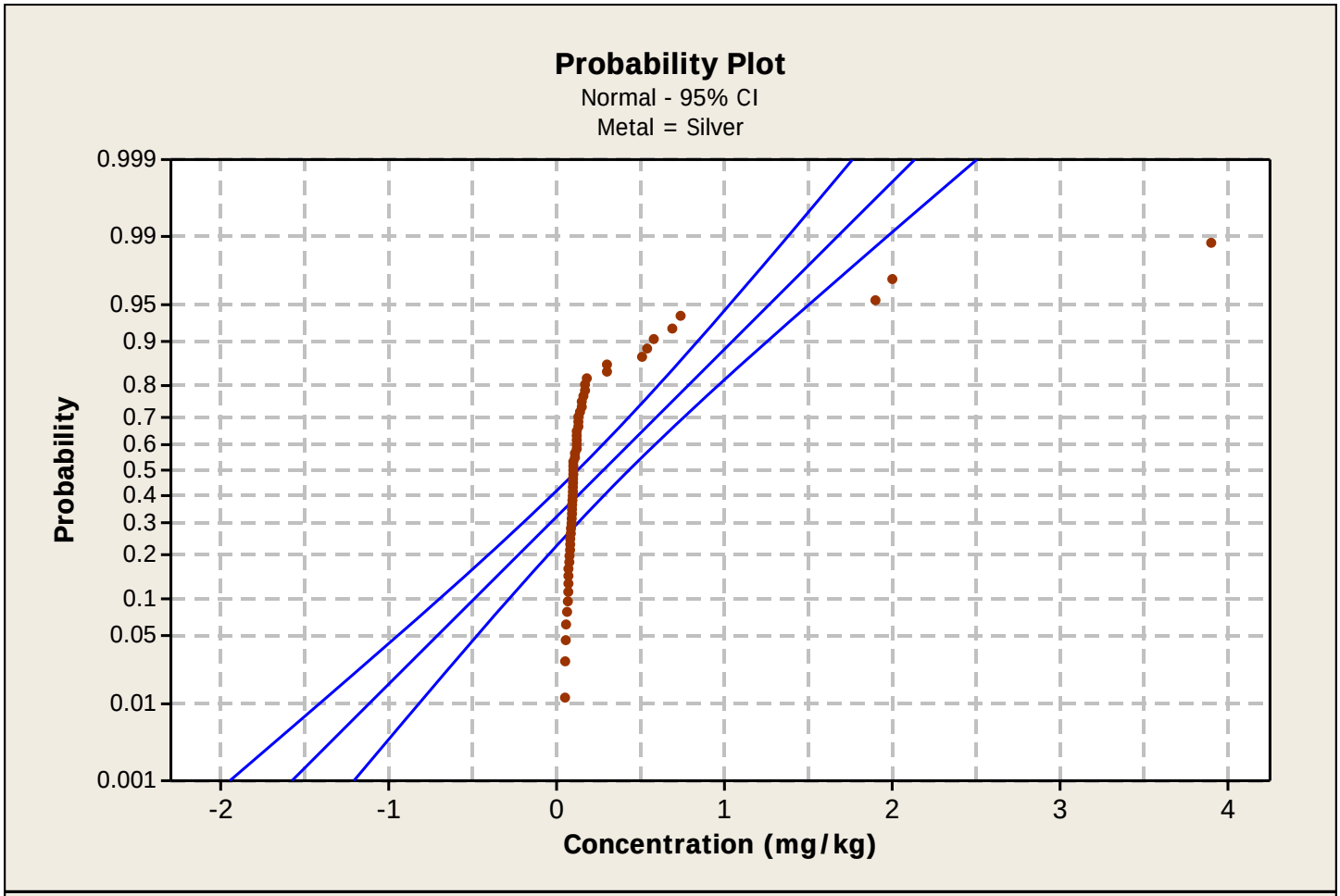

Boxplot
Radionuclide = Radium-228
○ = Non-Detect; ● = Detect
Activity (pCi/g)
0
1
2
3
4
5
6
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

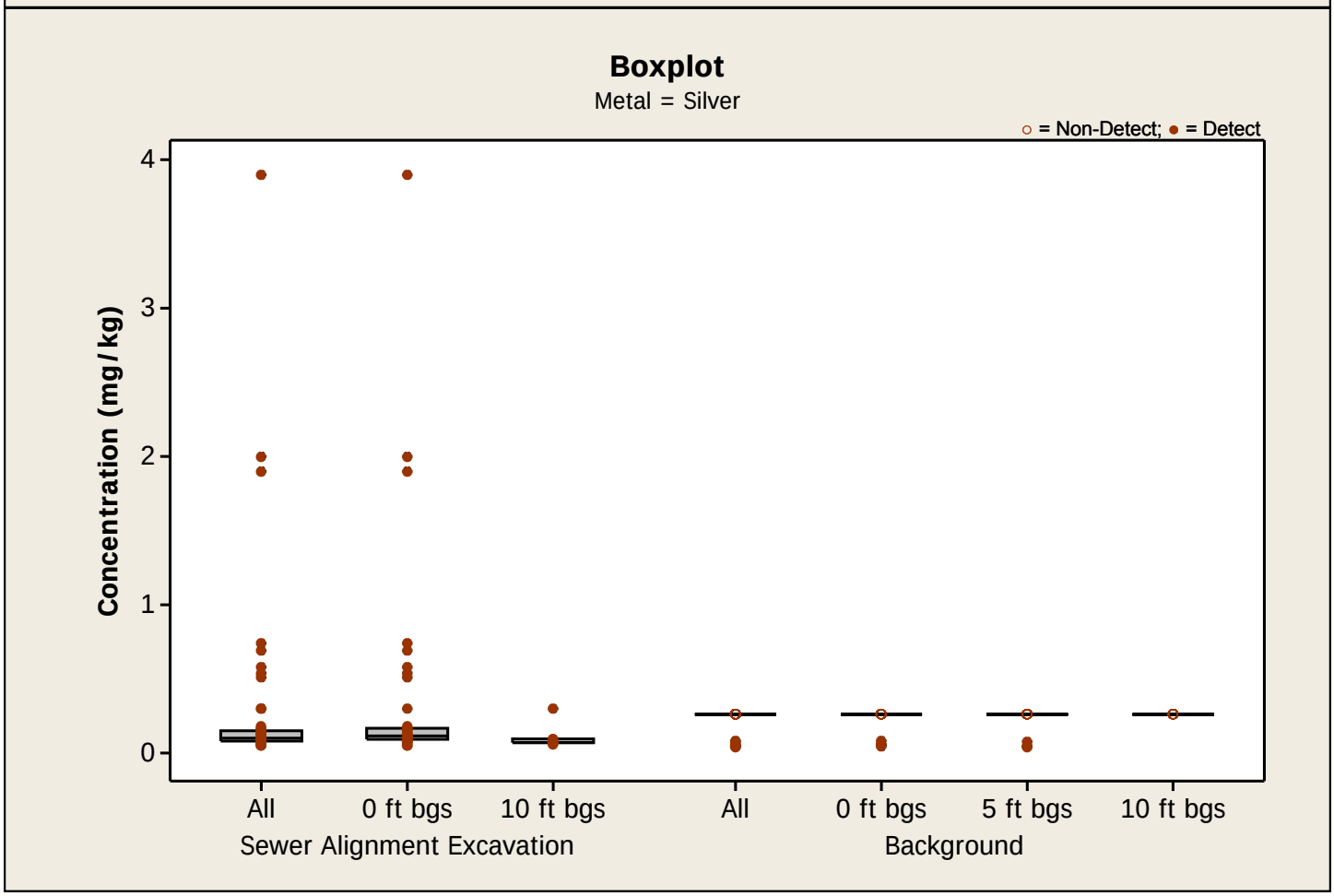

Probability Plot
Normal - 95% CI
Metal = Selenium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.5
0.0
0.5
1.0
1.5
2.0
Concentration (mg/kg)

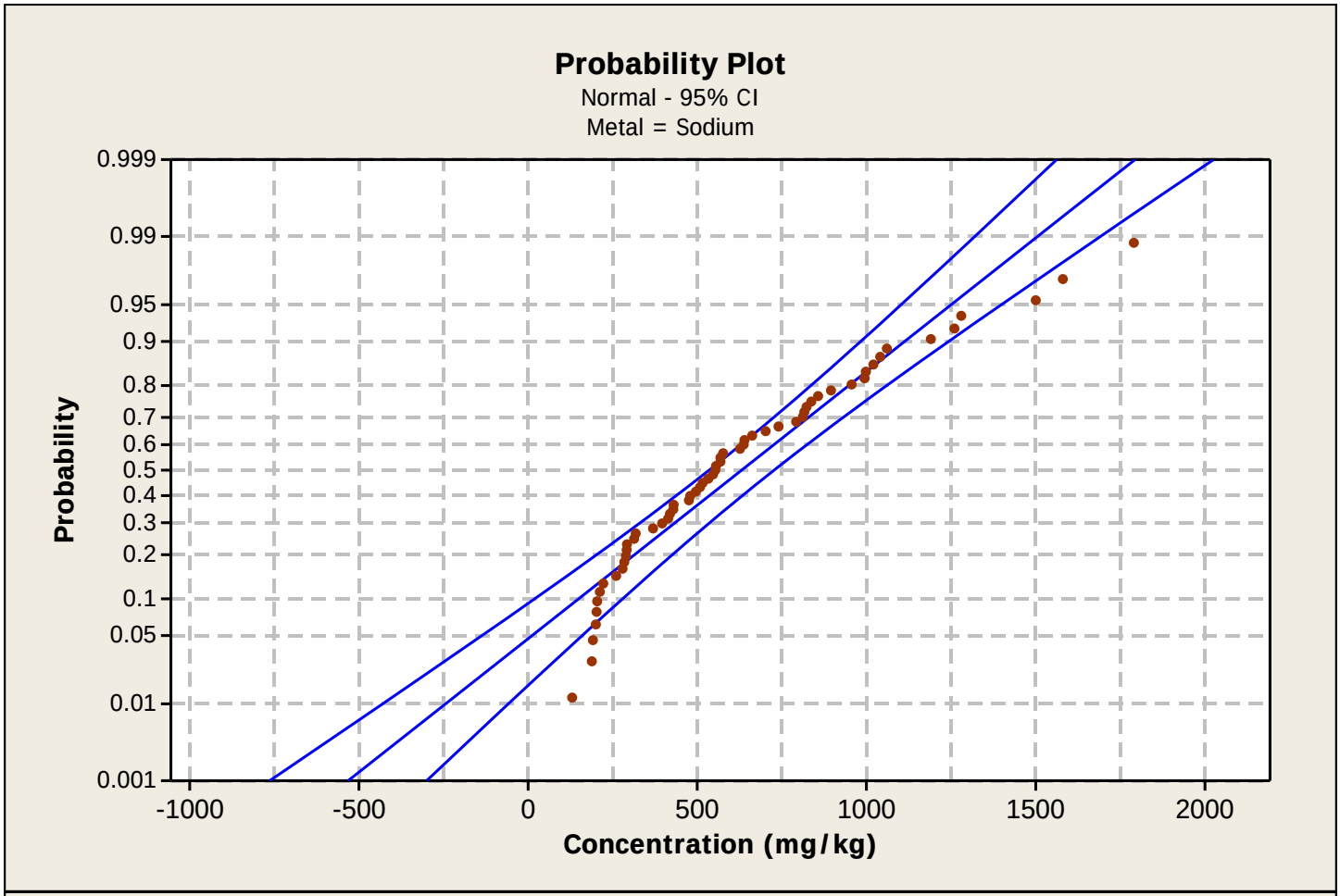

Boxplot
Metal = Selenium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
2.0
1.5
1.0
0.5
0.0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

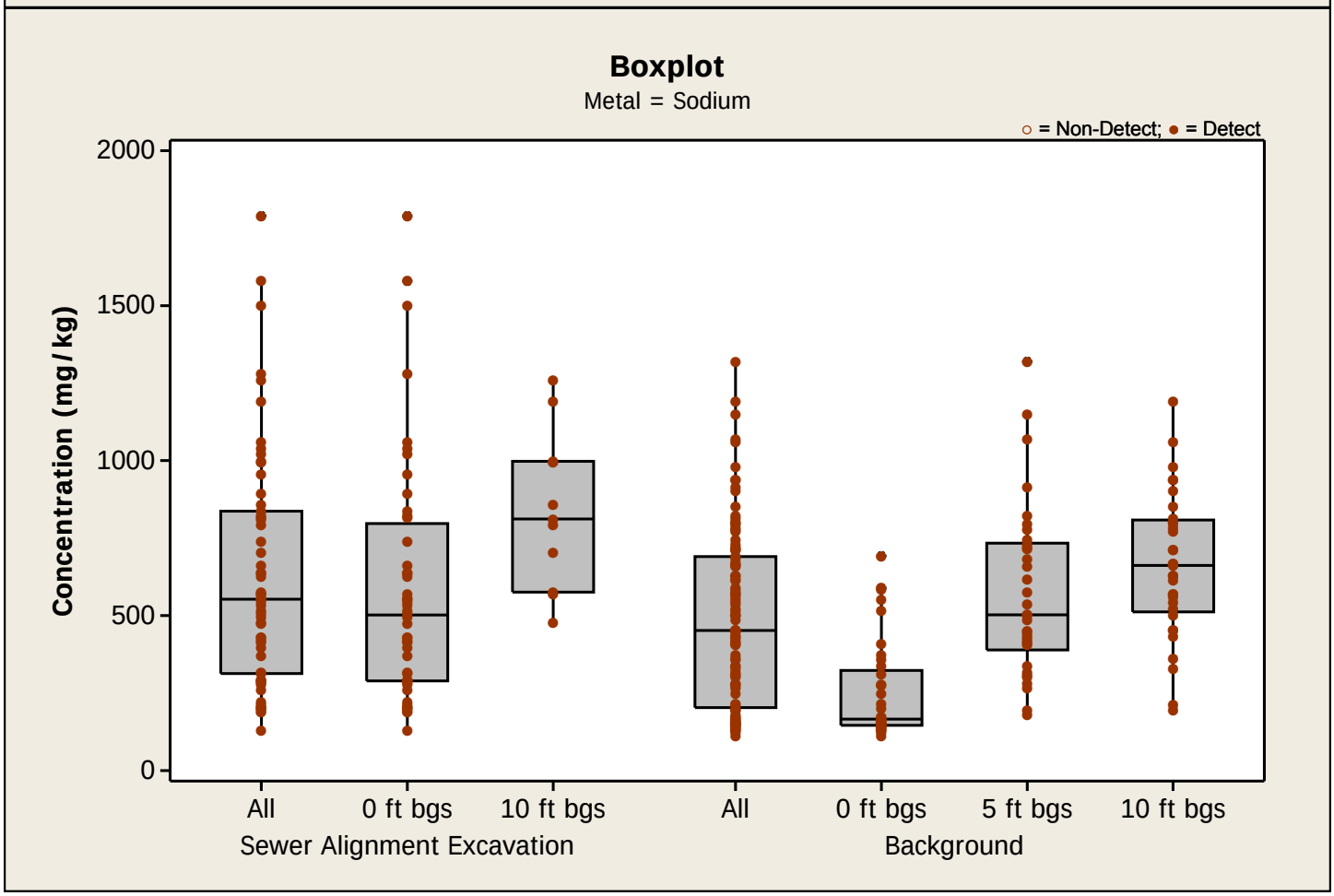

Probability Plot
Normal - 95% CI
Metal = Silicon
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1000
-500
0
500
1000
1500
Concentration (mg/kg)

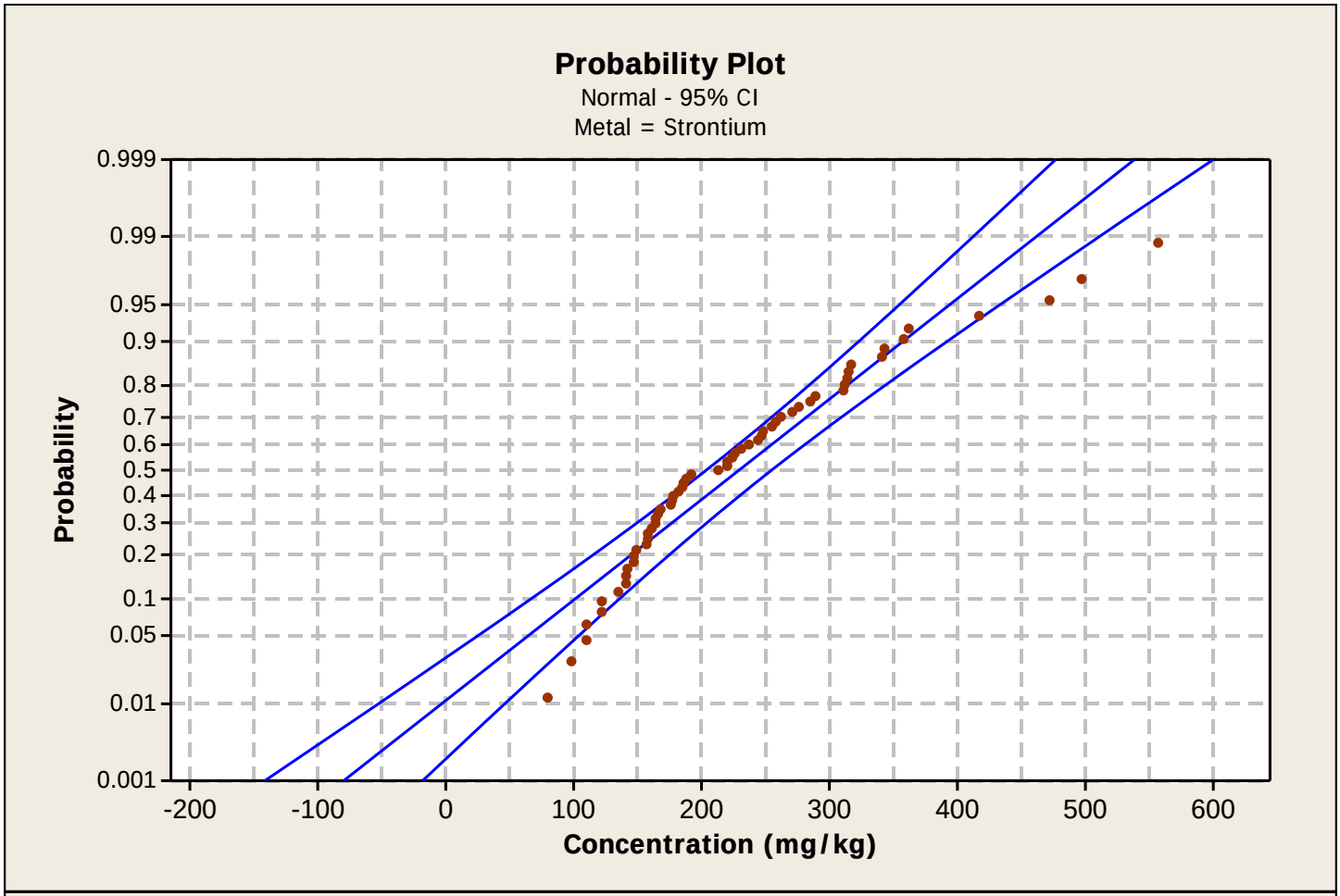

Boxplot
Metal = Silicon
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
4000
3000
2000
1000
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

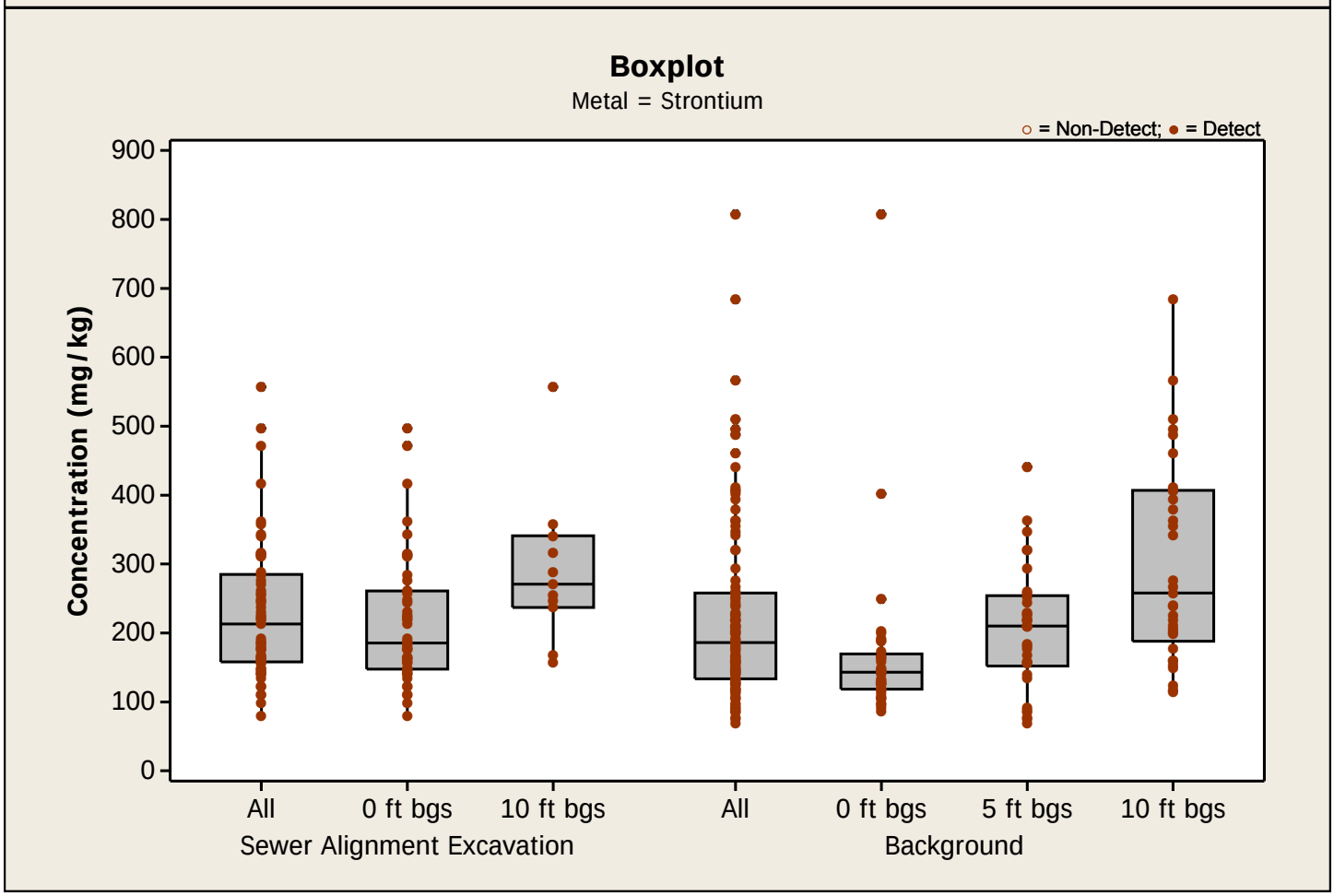

Probability Plot
Normal - 95% CI
Metal = Silver
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-2
-1
0
1
2
3
4
Concentration (mg/kg)

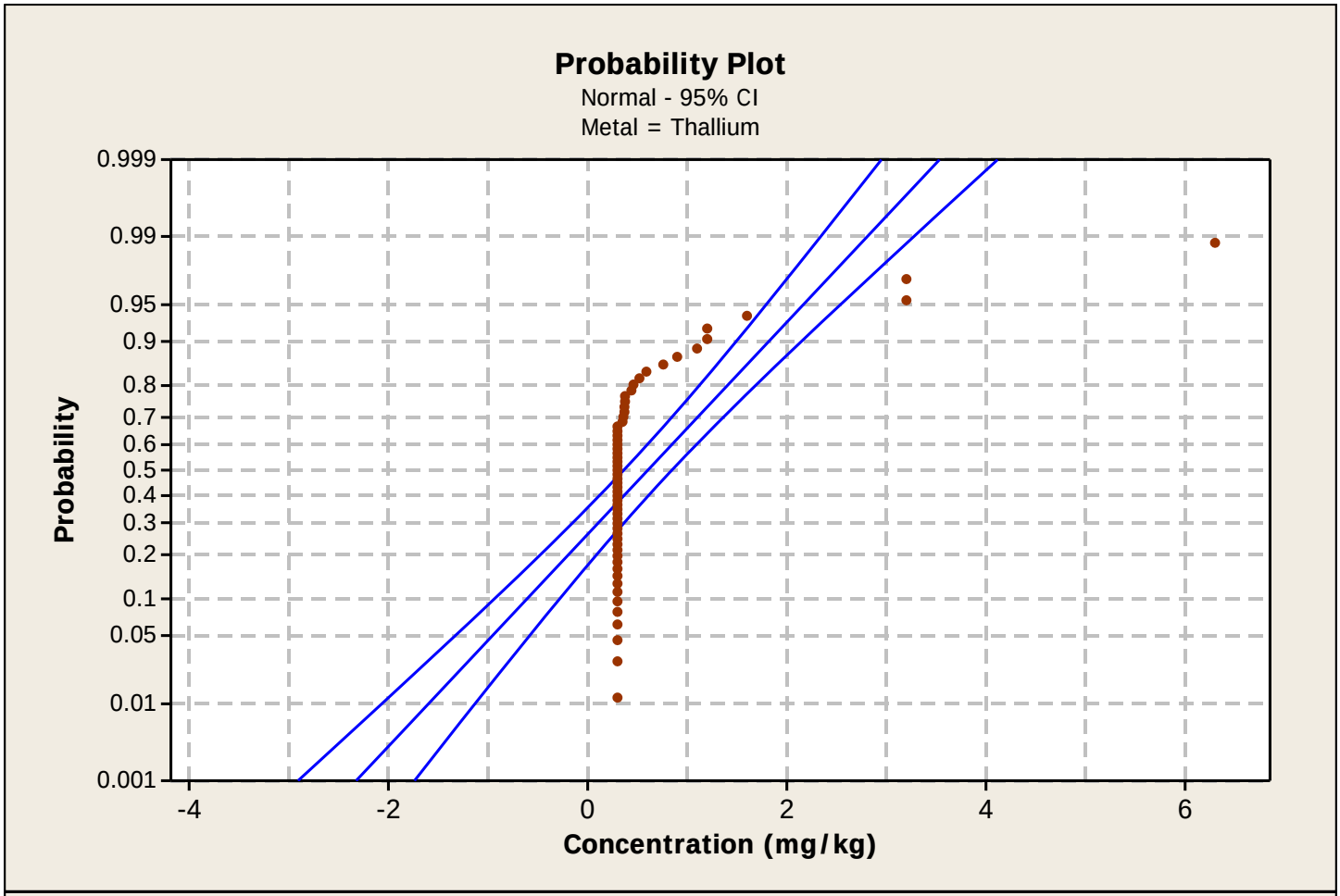

Boxplot
Metal = Silver
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
4
3
2
1
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

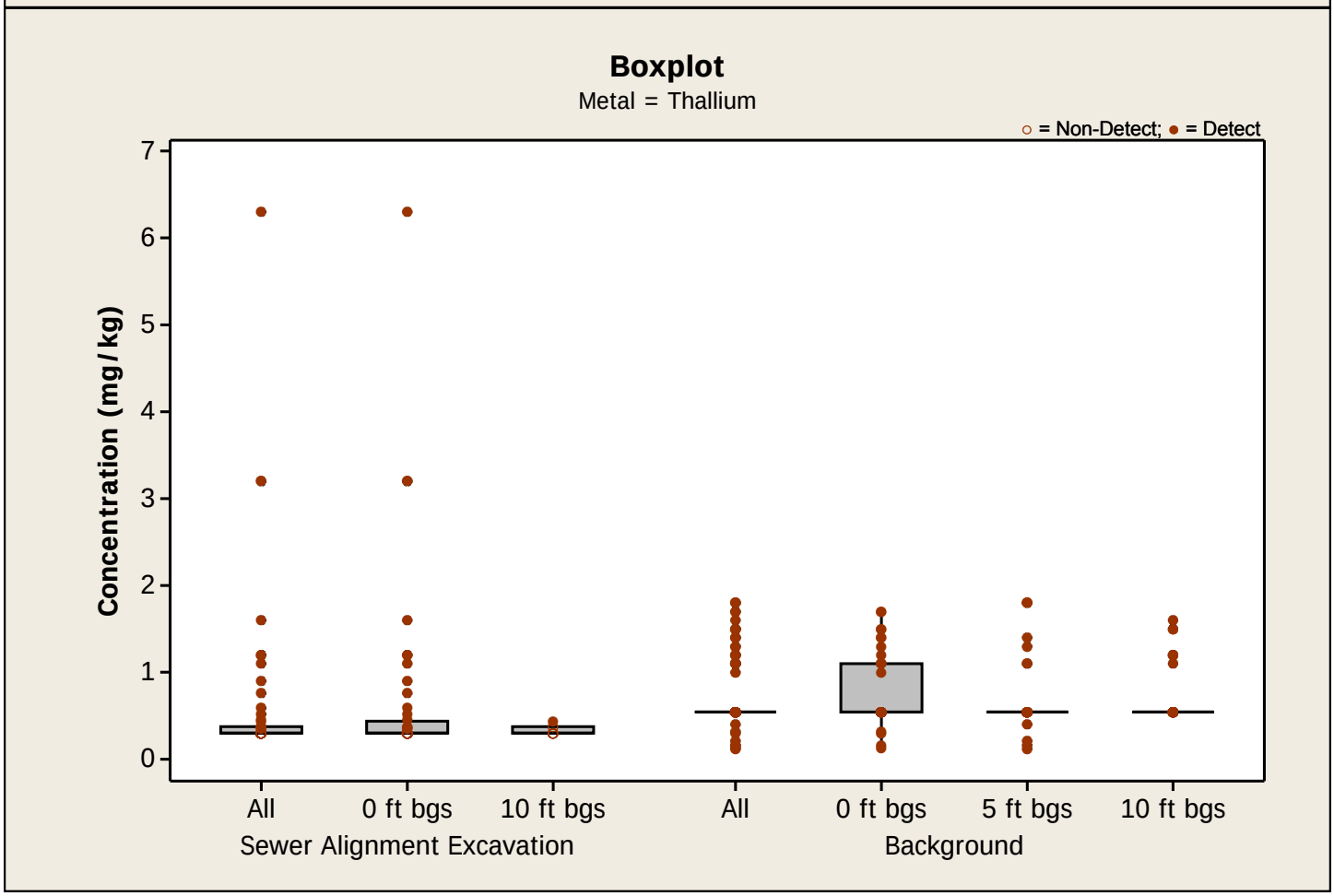

Probability Plot
Normal - 95% CI
Metal = Sodium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1000
-500
0
500
1000
1500
2000
Concentration (mg/kg)

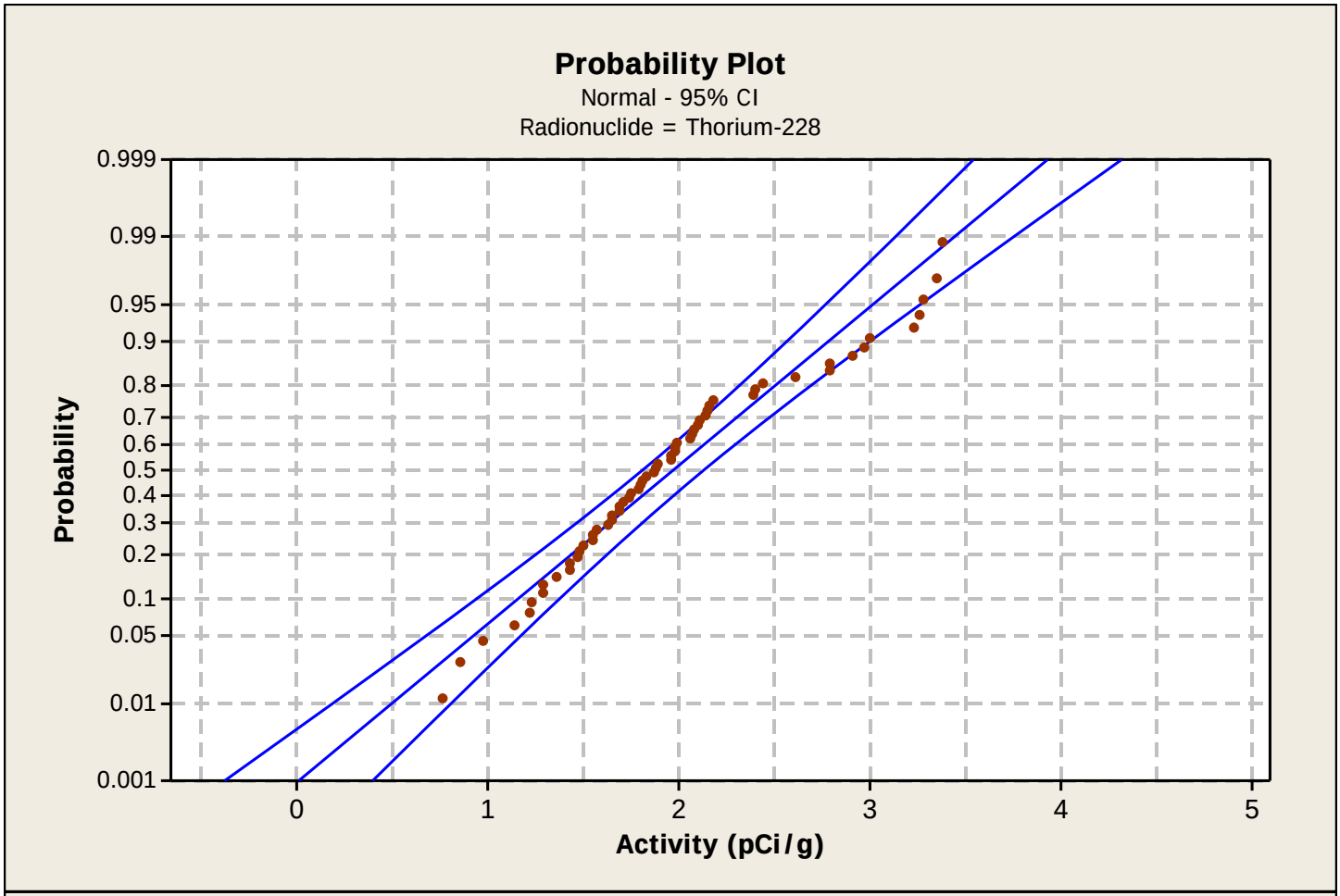

Boxplot
Metal = Sodium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
2000
1500
1000
500
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

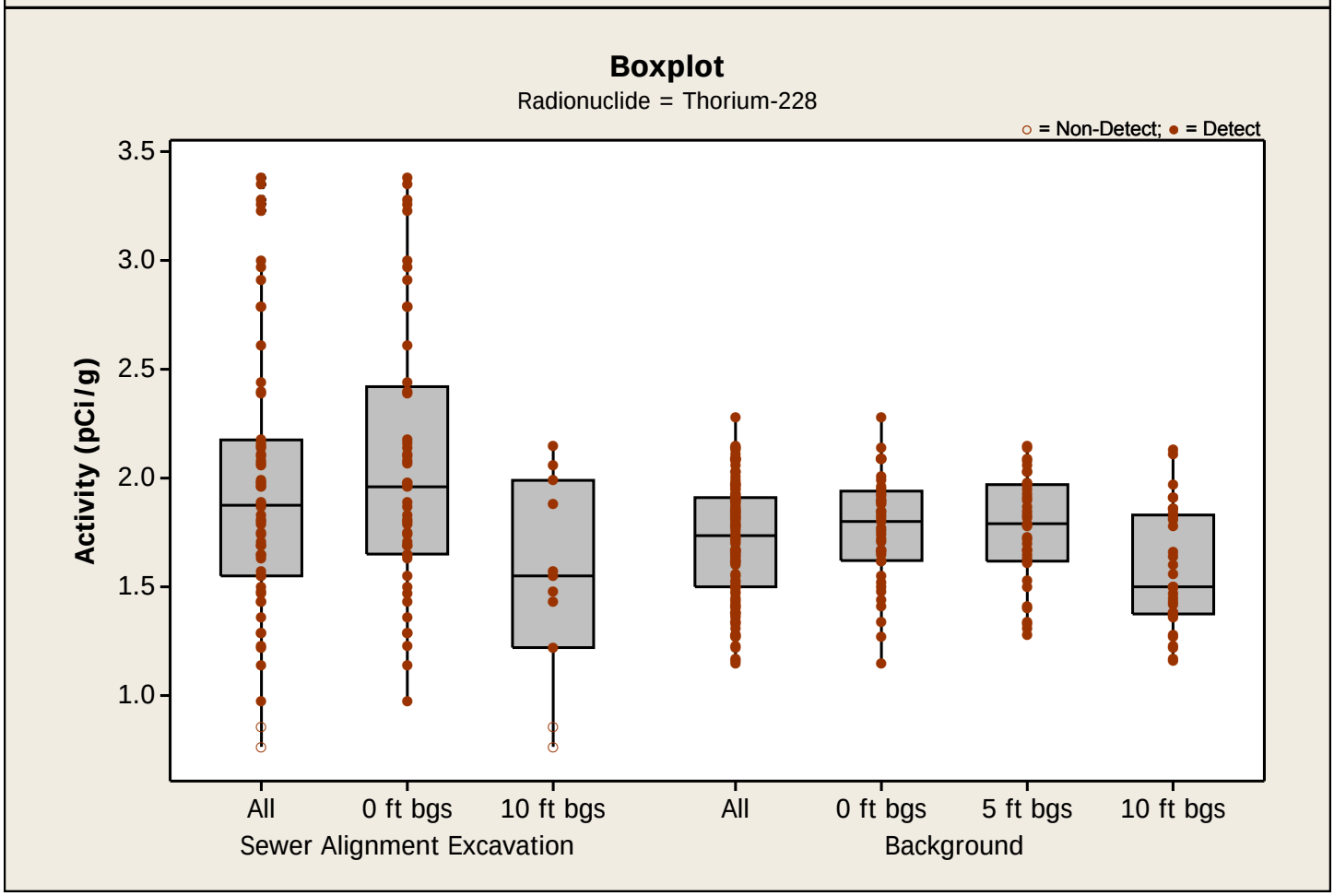

Probability Plot
Normal - 95% CI
Metal = Strontium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-200
-100
0
100
200
300
400
500
600
Concentration (mg/kg)

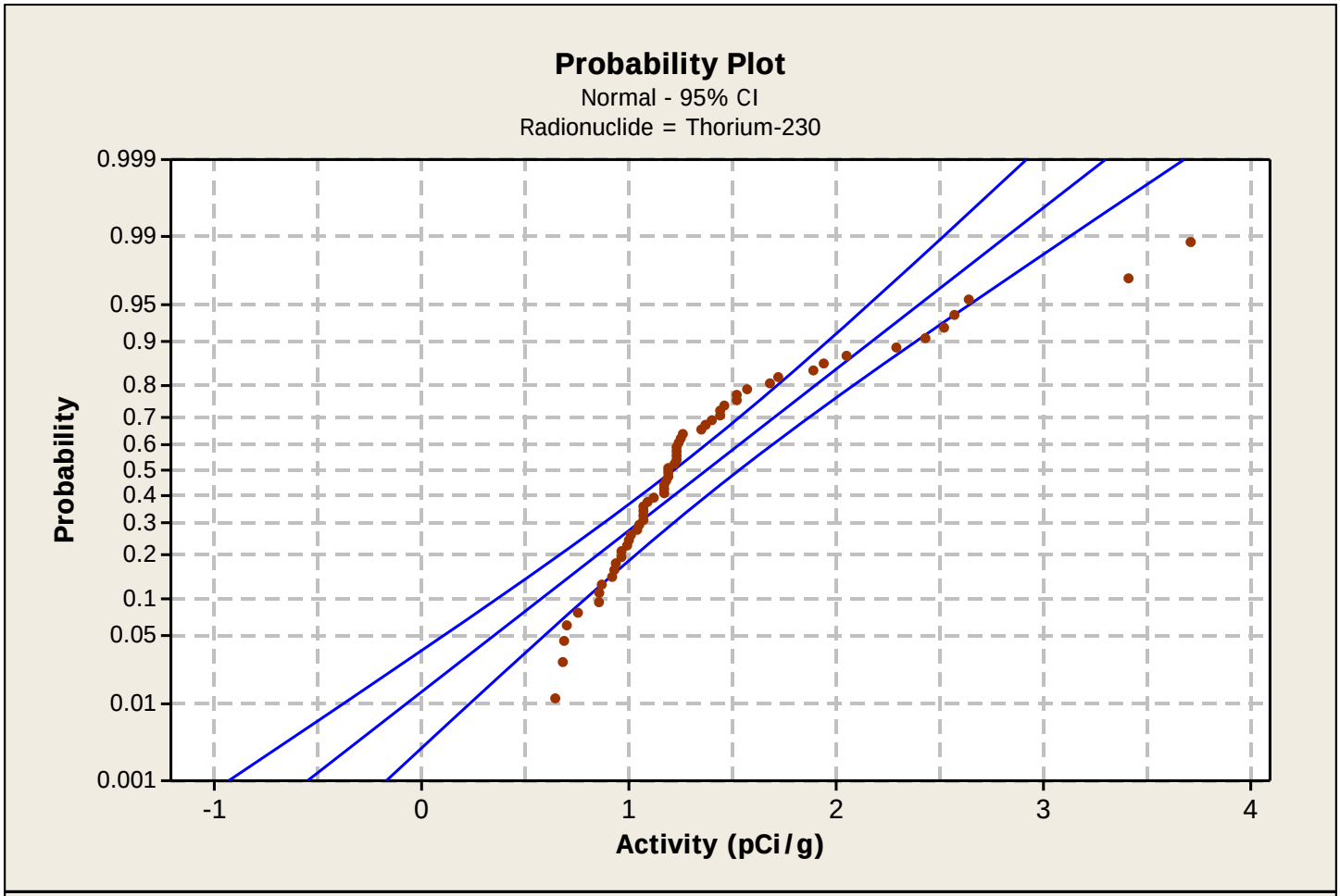

Boxplot
Metal = Strontium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
900
800
700
600
500
400
300
200
100
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

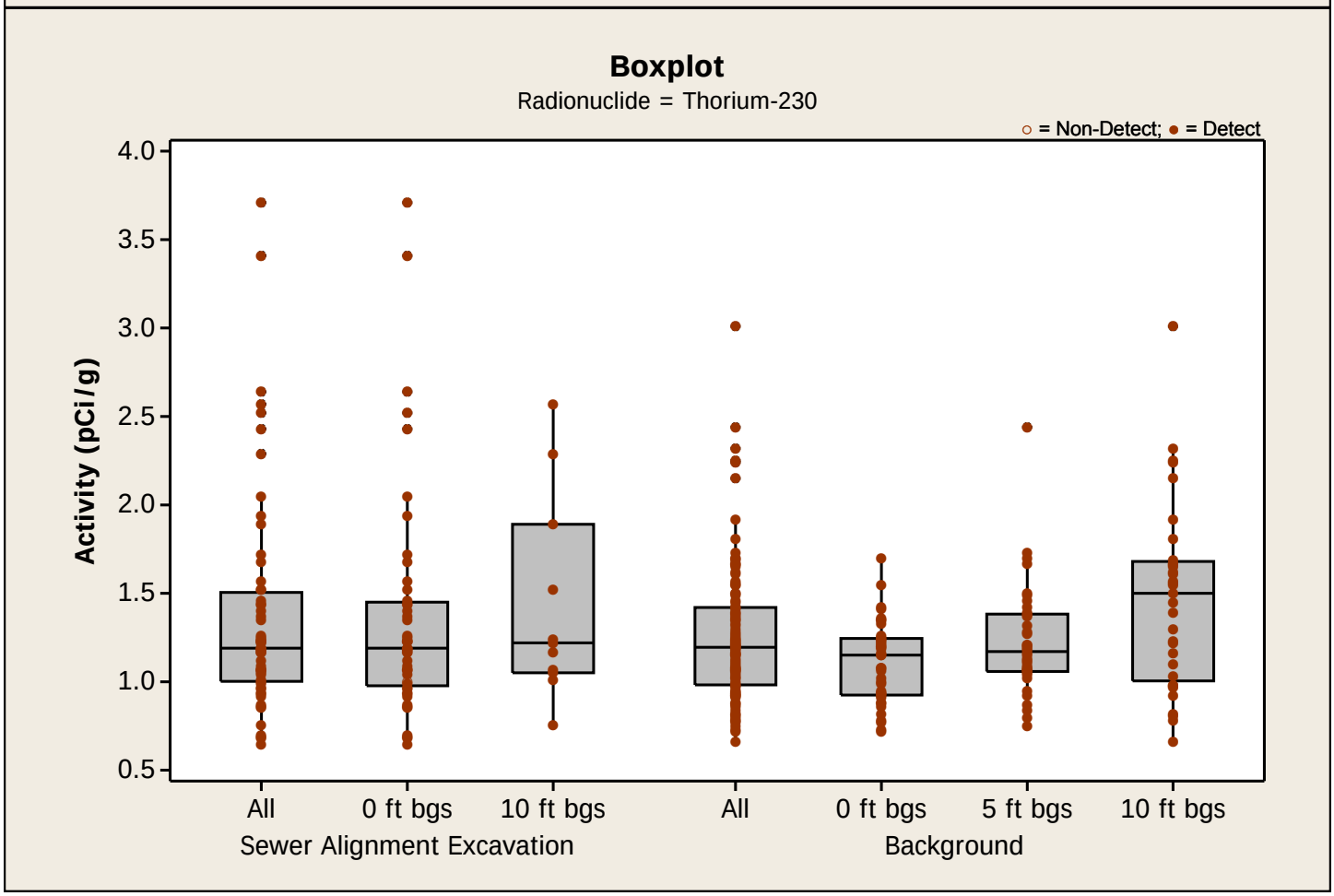

Probability Plot
Normal - 95% CI
Metal = Thallium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-4
-2
0
2
4
6
Concentration (mg/kg)

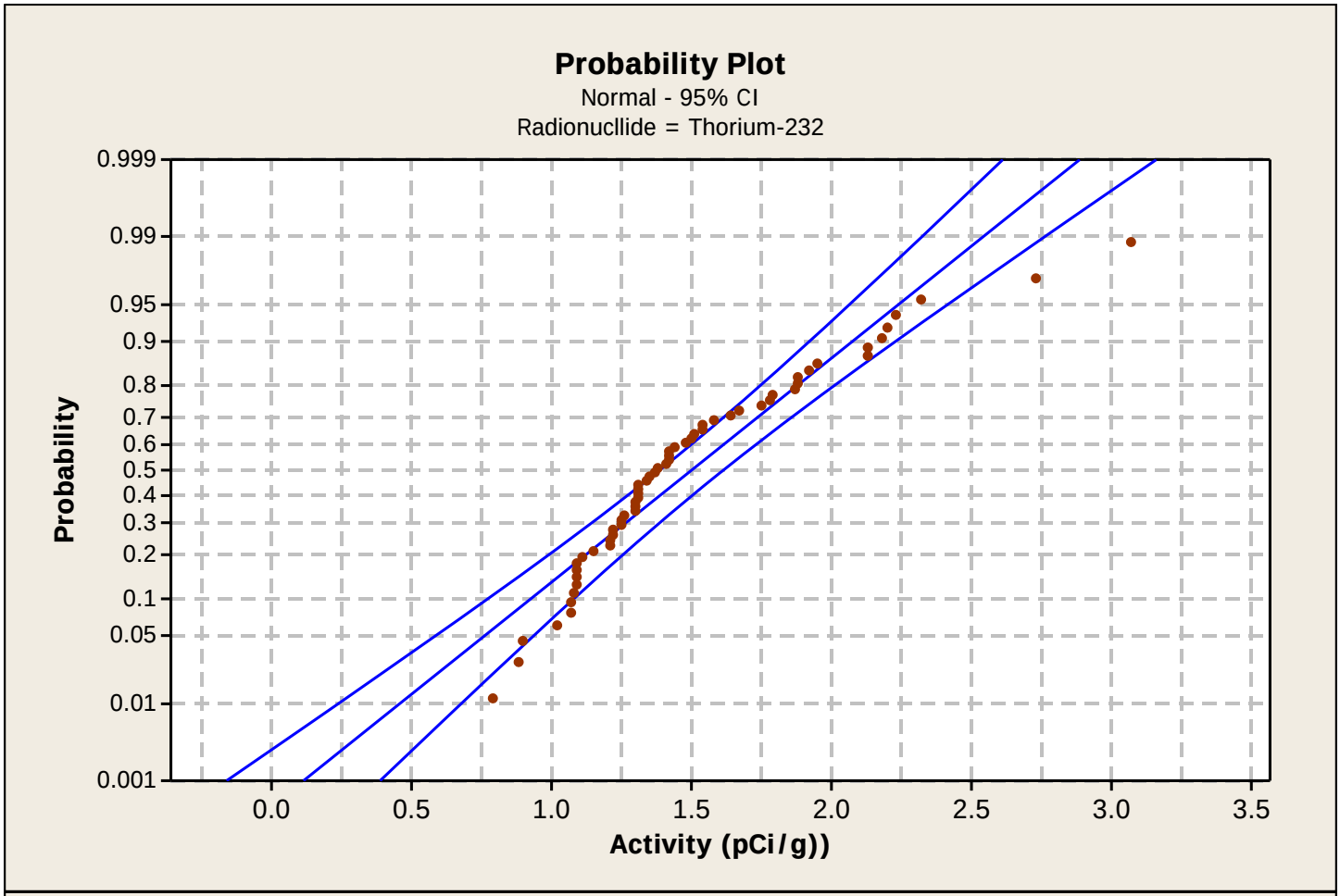

Boxplot
Metal = Thallium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
7
6
5
4
3
2
1
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

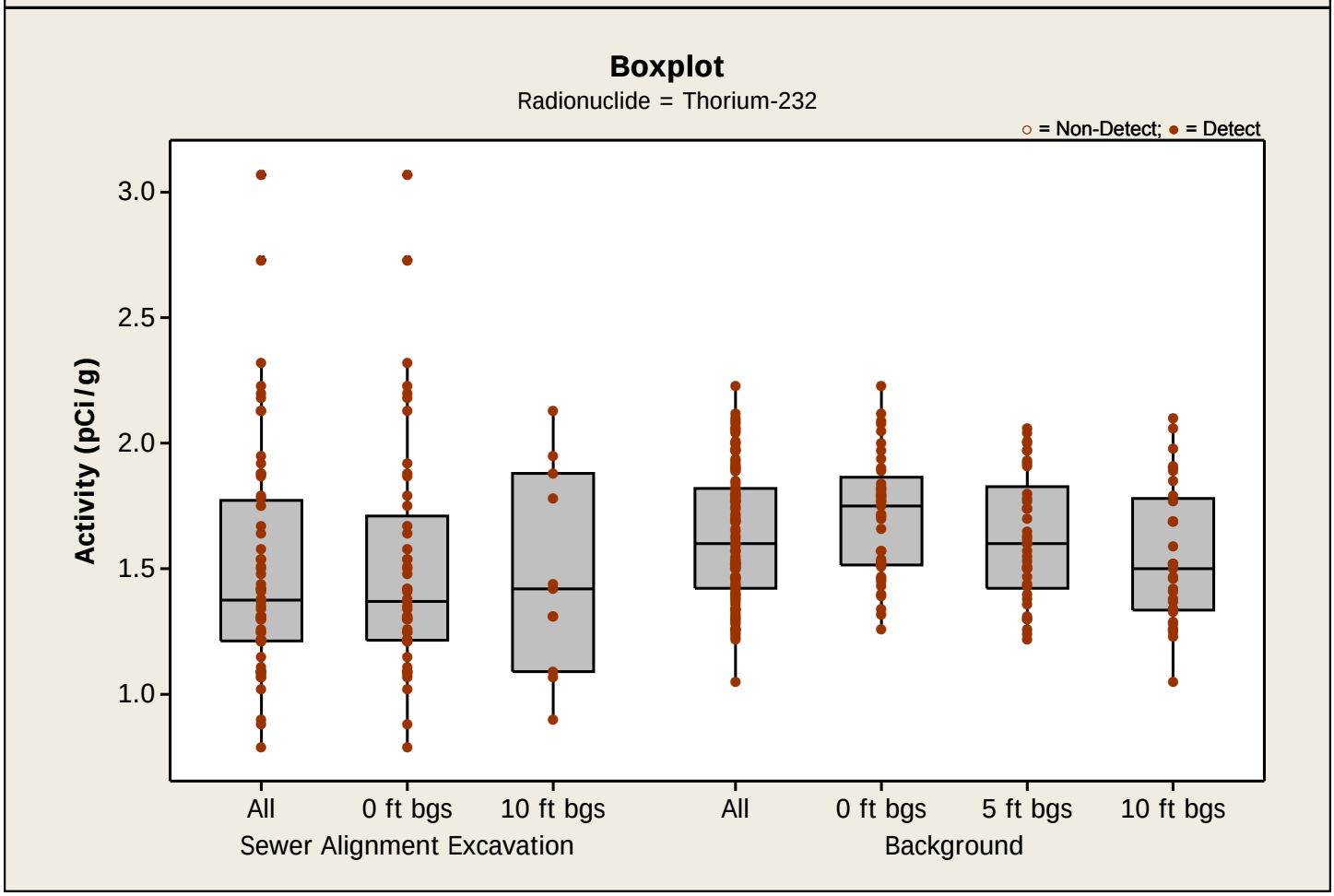

Probability Plot
Normal - 95% CI
Radionuclide = Thorium-228
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0
1
2
3
4
5
Activity (pCi/g)

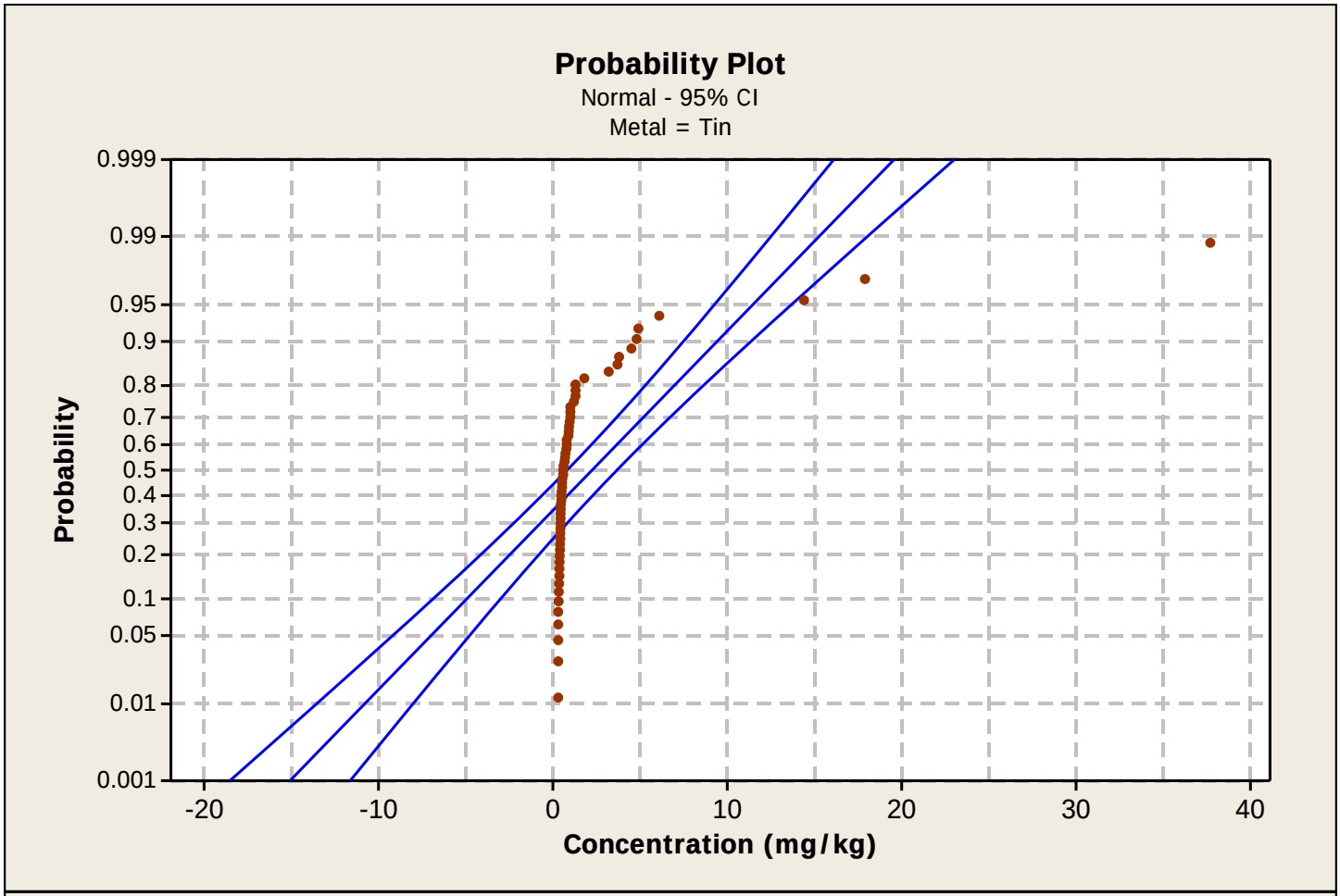

Boxplot
Radionuclide = Thorium-228
○ = Non-Detect; ● = Detect
Activity (pCi/g)
3.5
3.0
2.5
2.0
1.5
1.0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

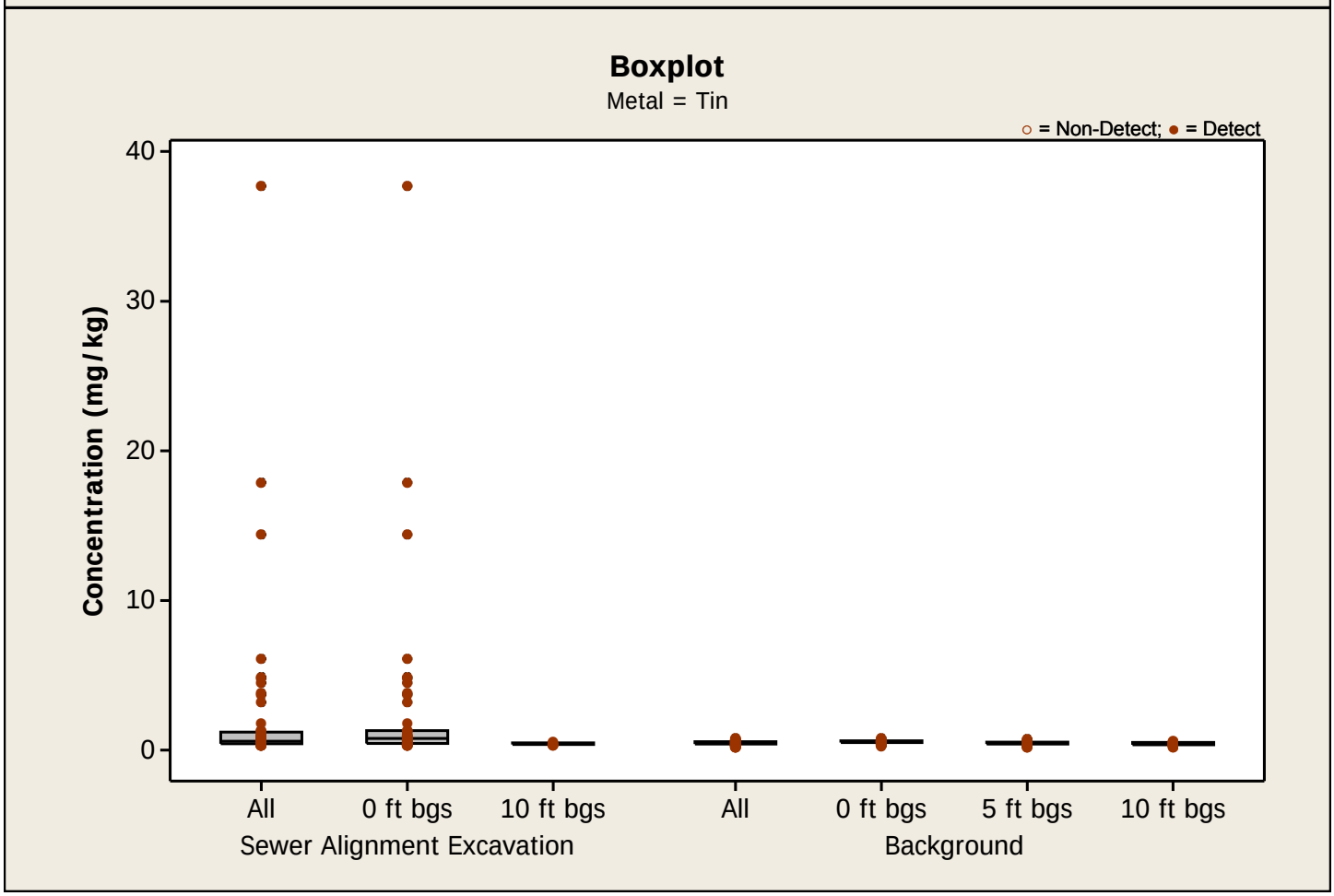

Probability Plot
Normal - 95% CI
Radionuclide = Thorium-230
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1
0
1
2
3
4
Activity (pCi/g)

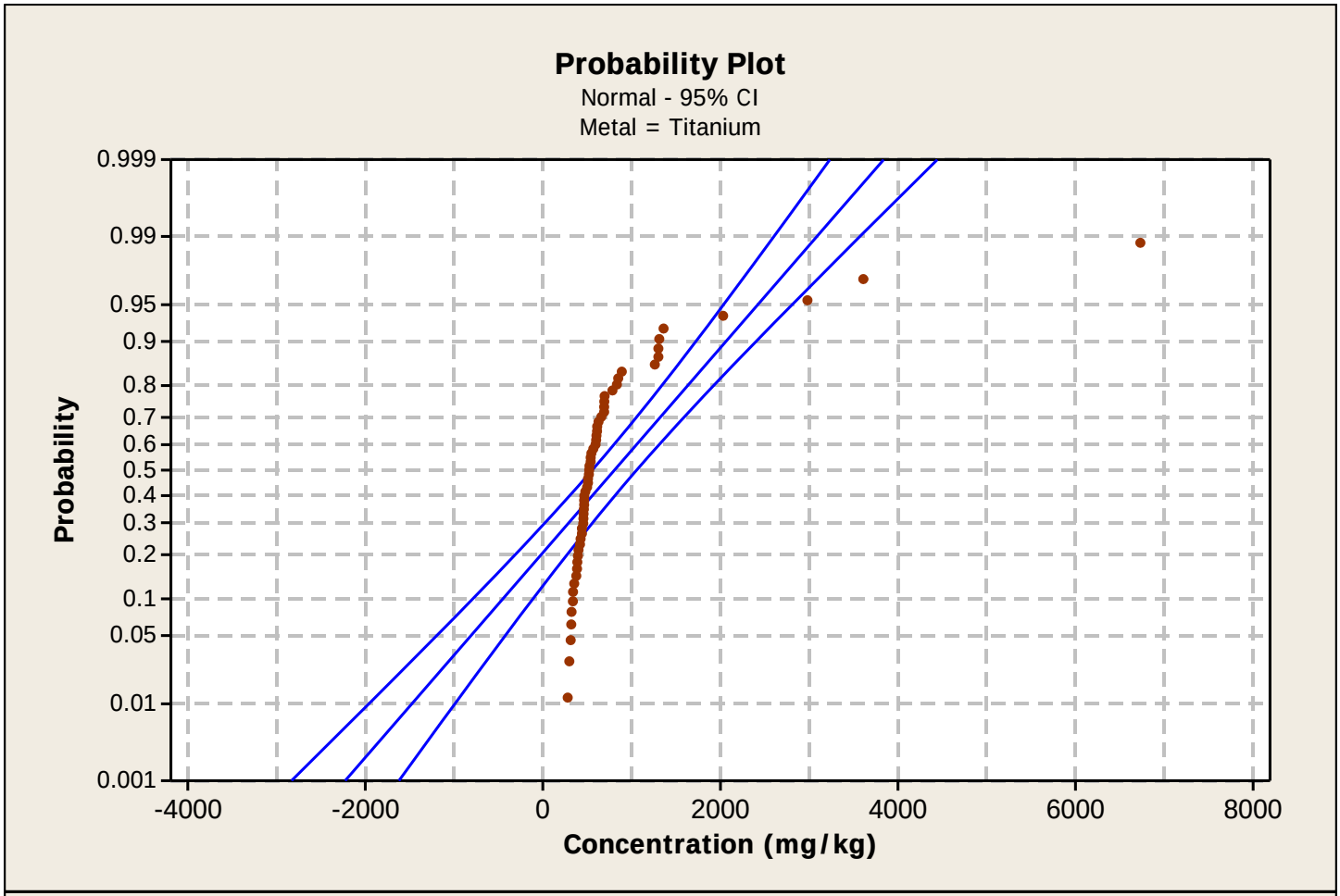

Boxplot
Radionuclide = Thorium-230
○ = Non-Detect; ● = Detect
Activity (pCi/g)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

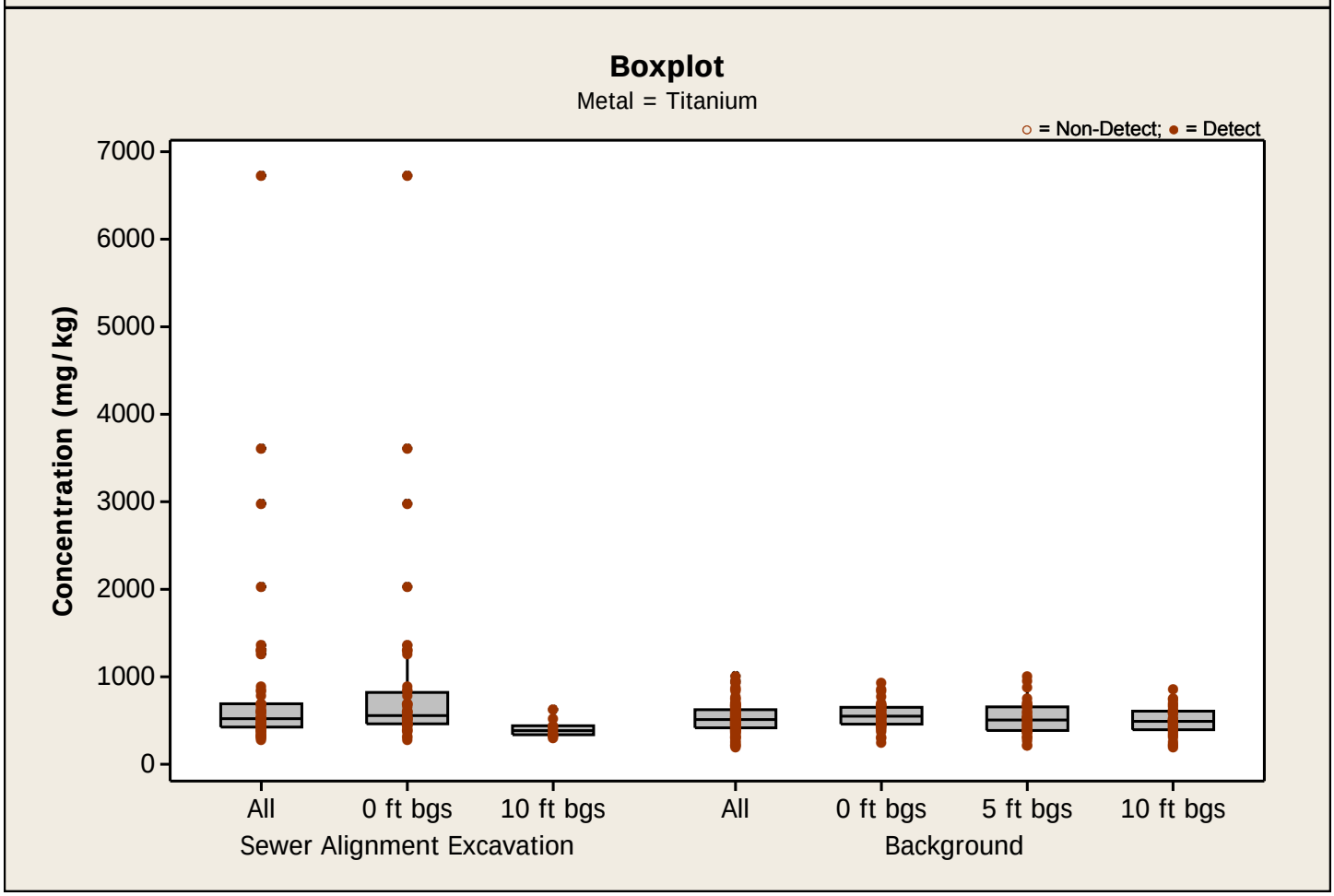

Probability Plot
Normal - 95% CI
Radionucllide = Thorium-232
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Activity (pCi/g))

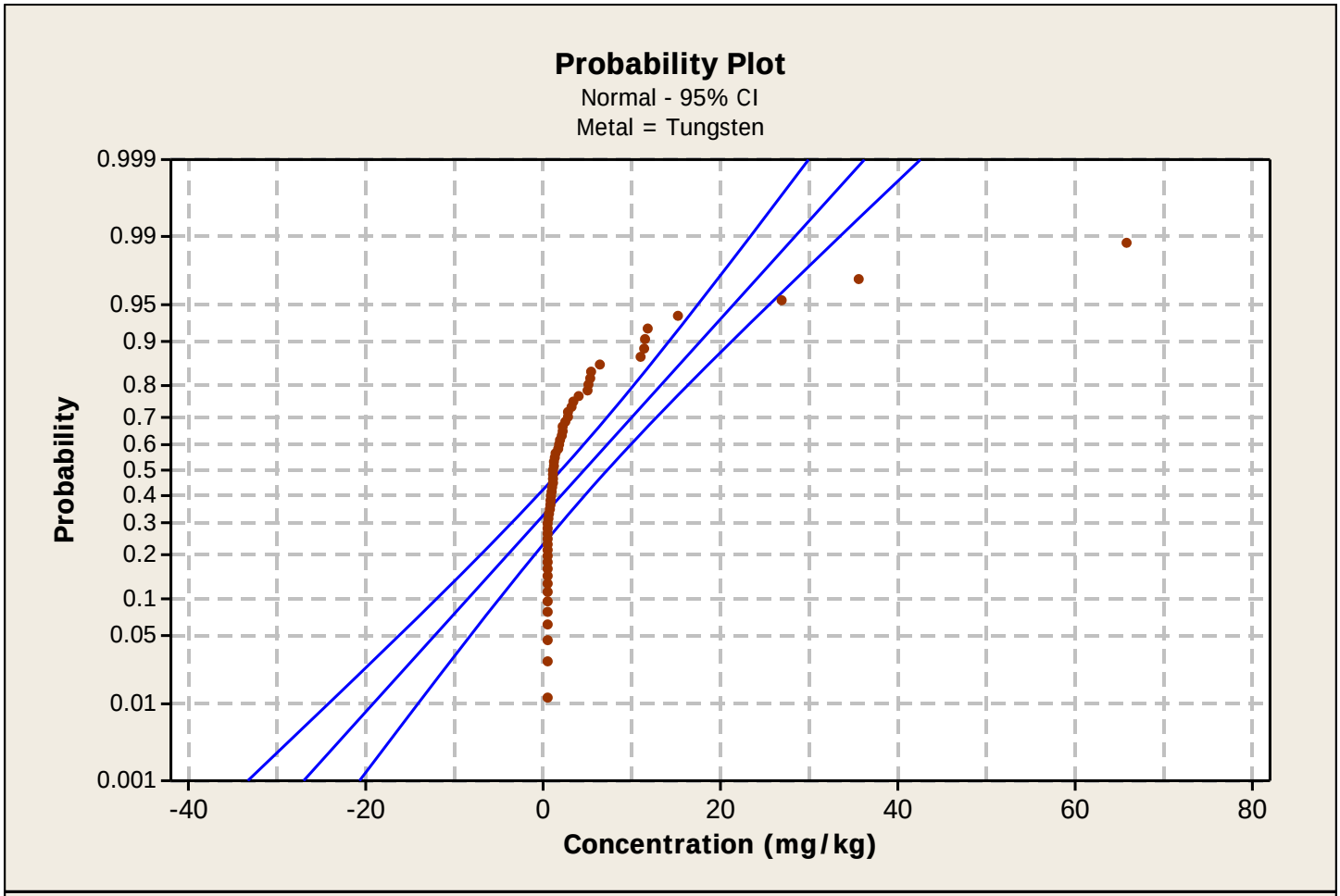

Boxplot
Radionuclide = Thorium-232
○ = Non-Detect; ● = Detect
Activity (pCi/g)
3.0
2.5
2.0
1.5
1.0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

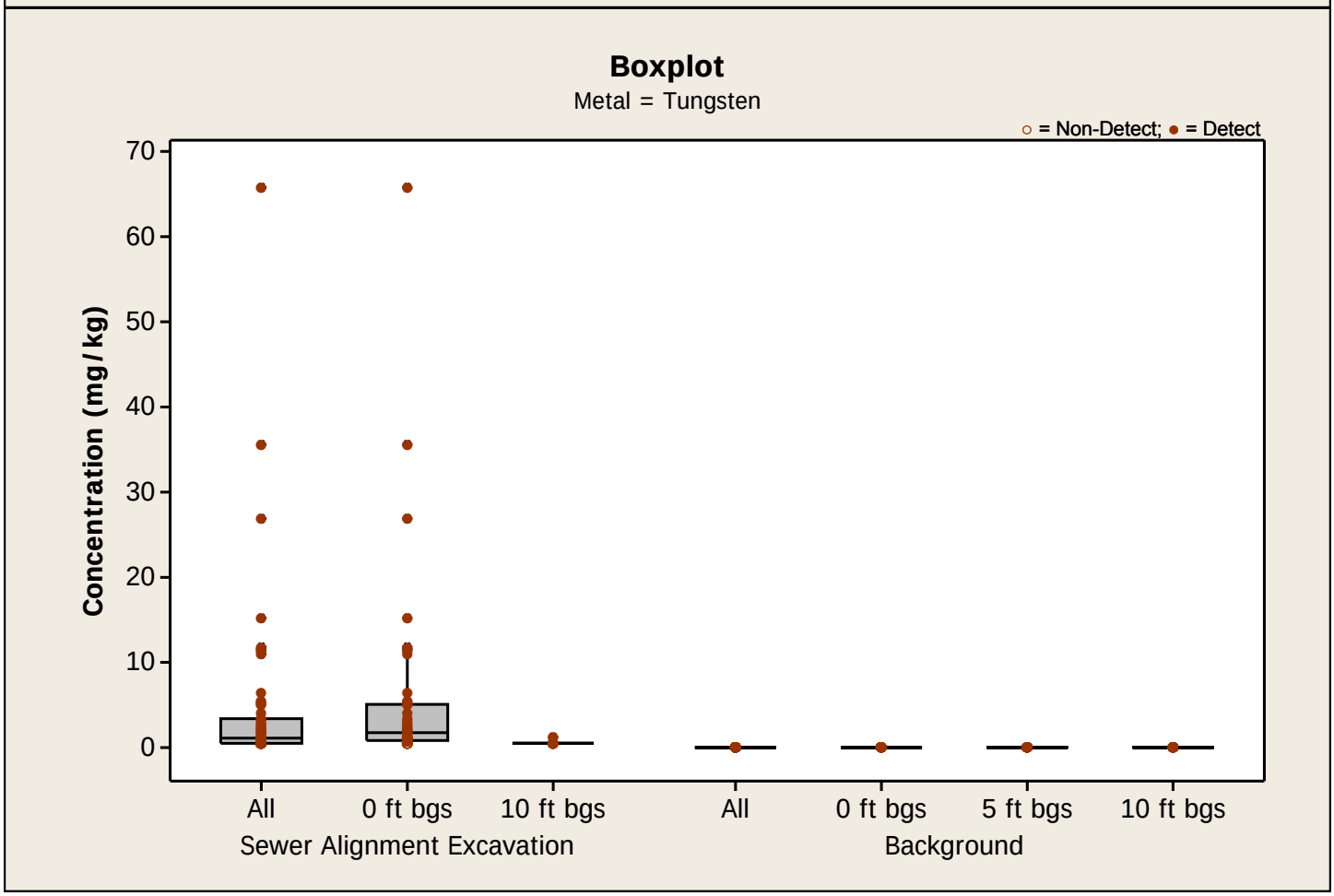

Probability Plot
Normal - 95% CI
Metal = Tin
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-20
-10
0
10
20
30
40
Concentration (mg/kg)

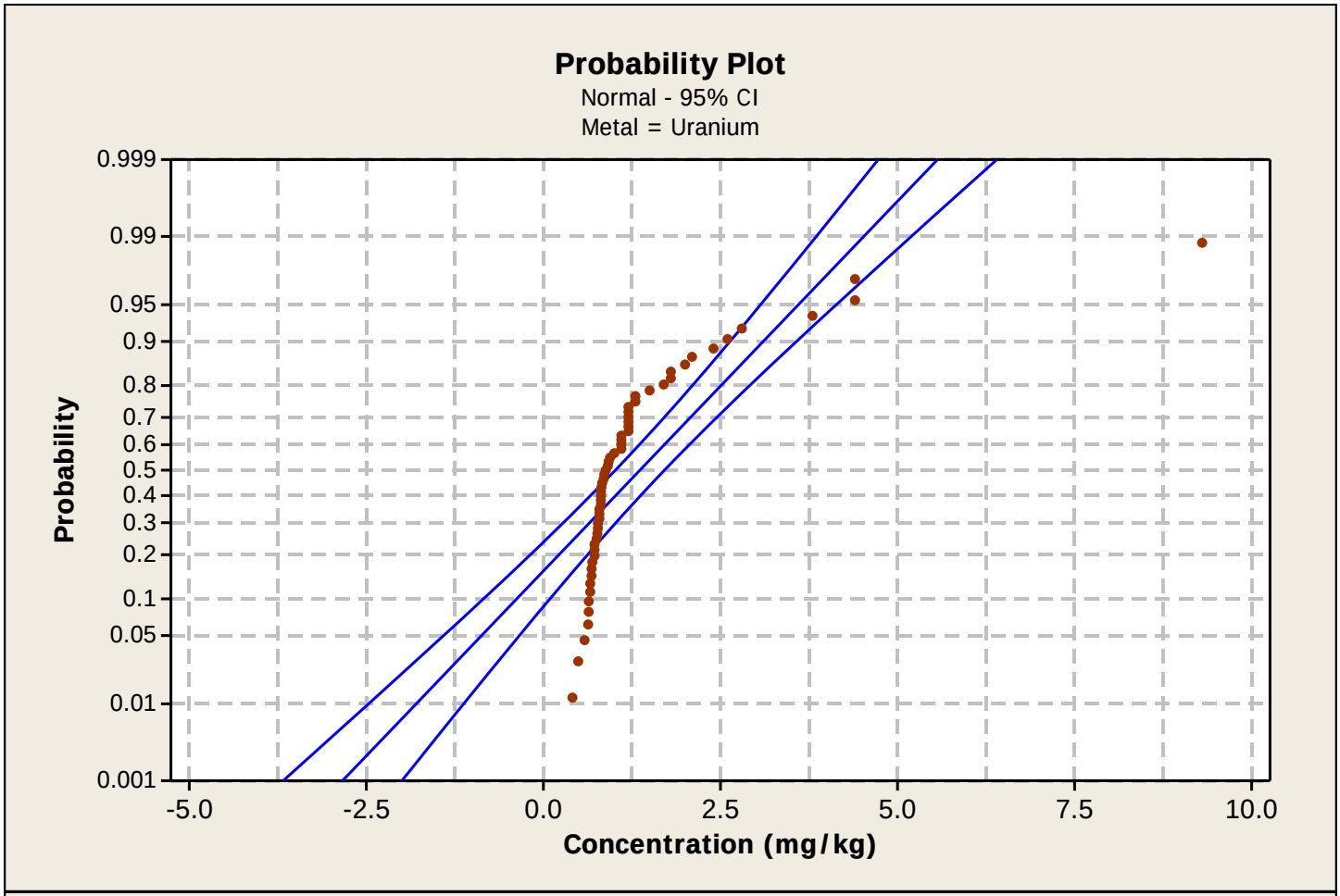

Boxplot
Metal = Tin
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
40
30
20
10
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

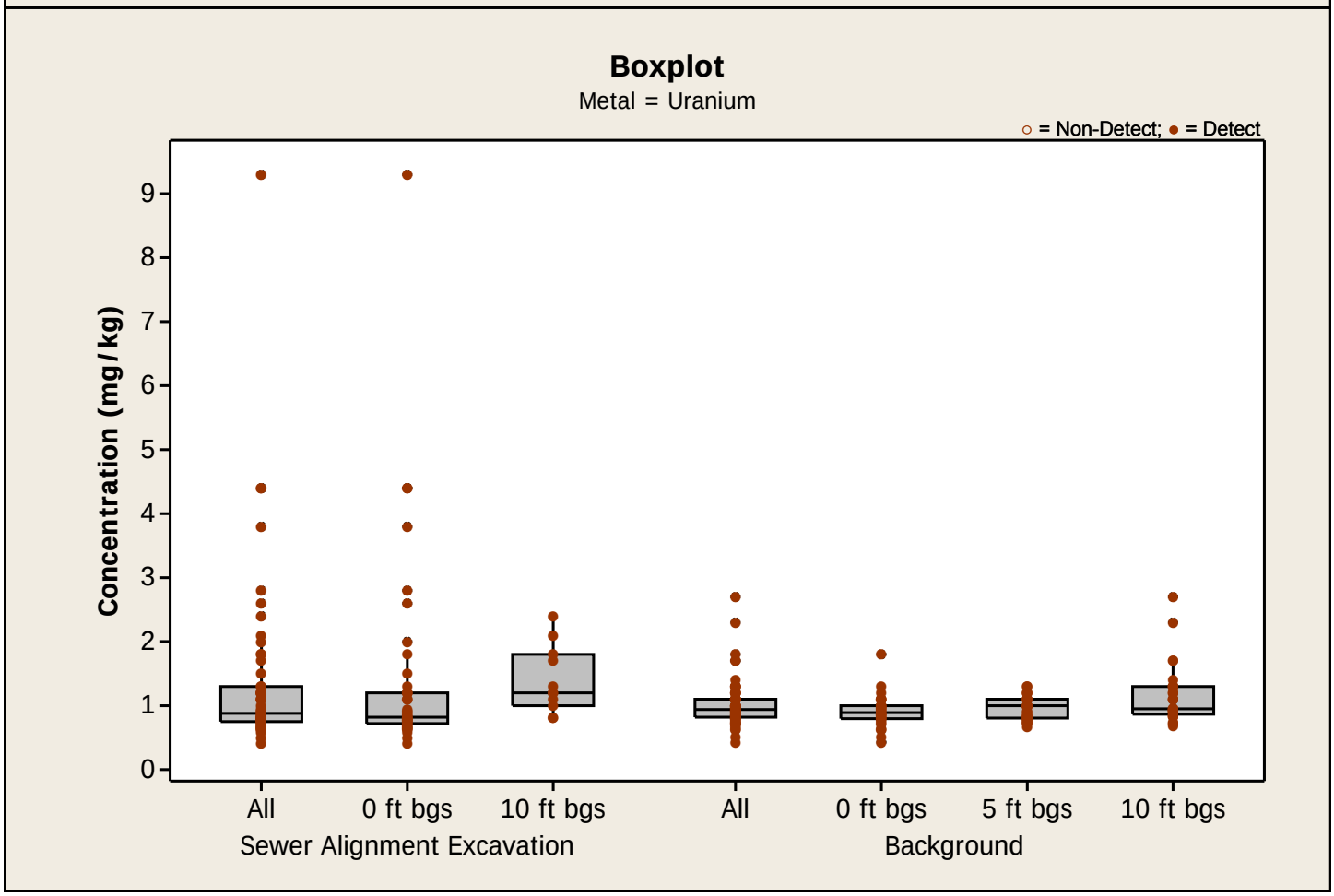

Probability Plot
Normal - 95% CI
Metal = Titanium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-4000
-2000
0
2000
4000
6000
8000
Concentration (mg/kg)

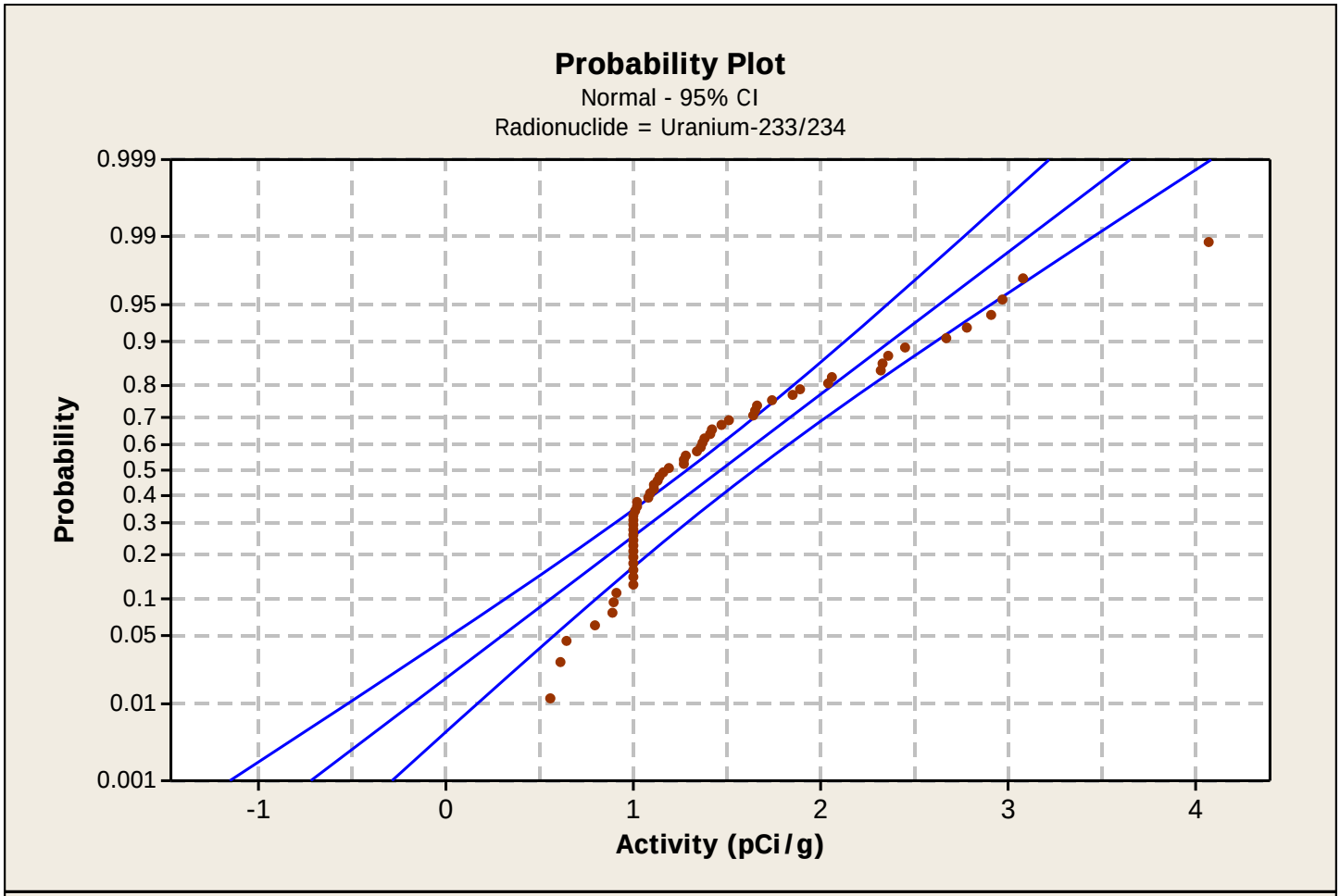

Boxplot
Metal = Titanium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
7000
6000
5000
4000
3000
2000
1000
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

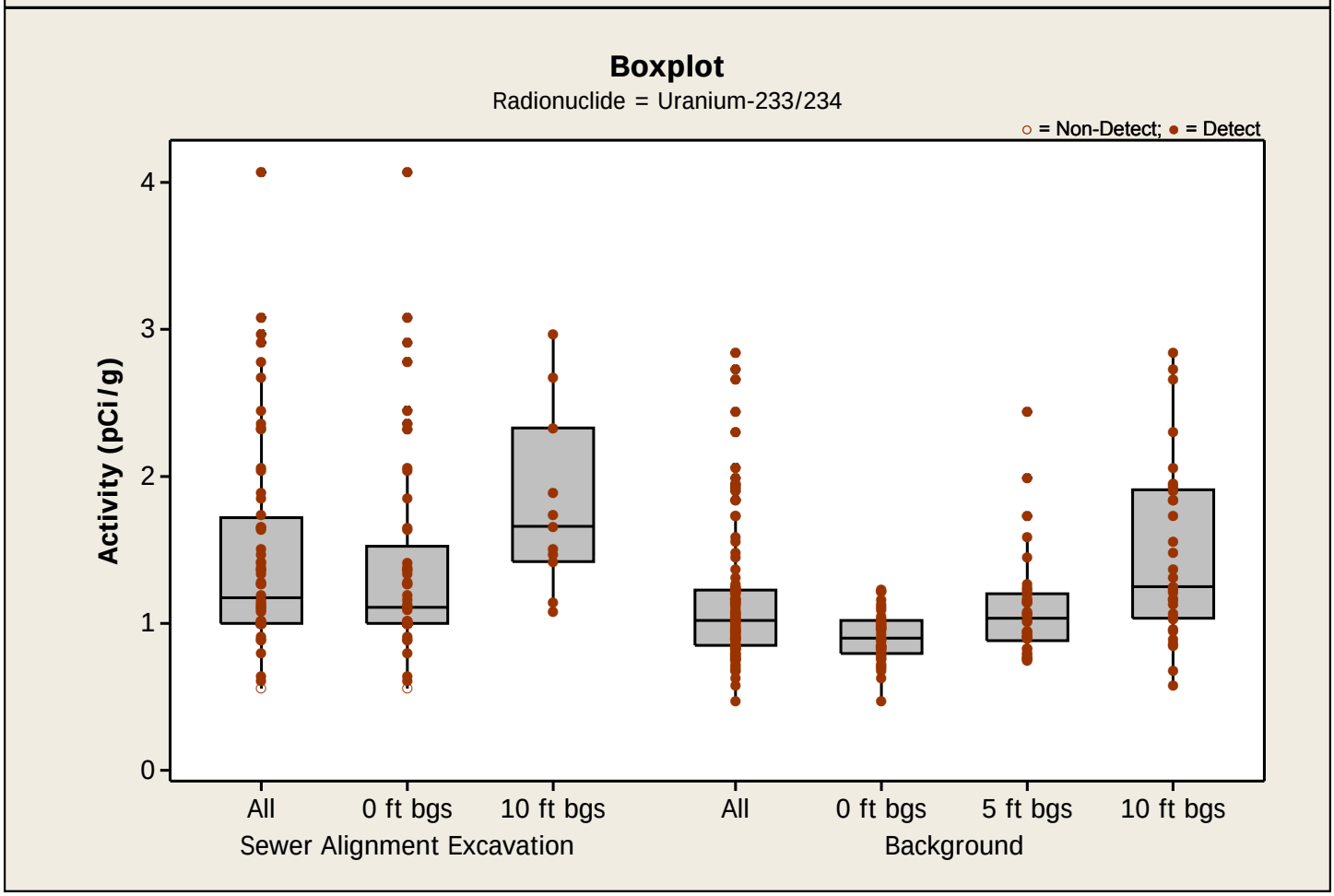

Probability Plot
Normal - 95% CI
Metal = Tungsten
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-40
-20
0
20
40
60
80
Concentration (mg/kg)

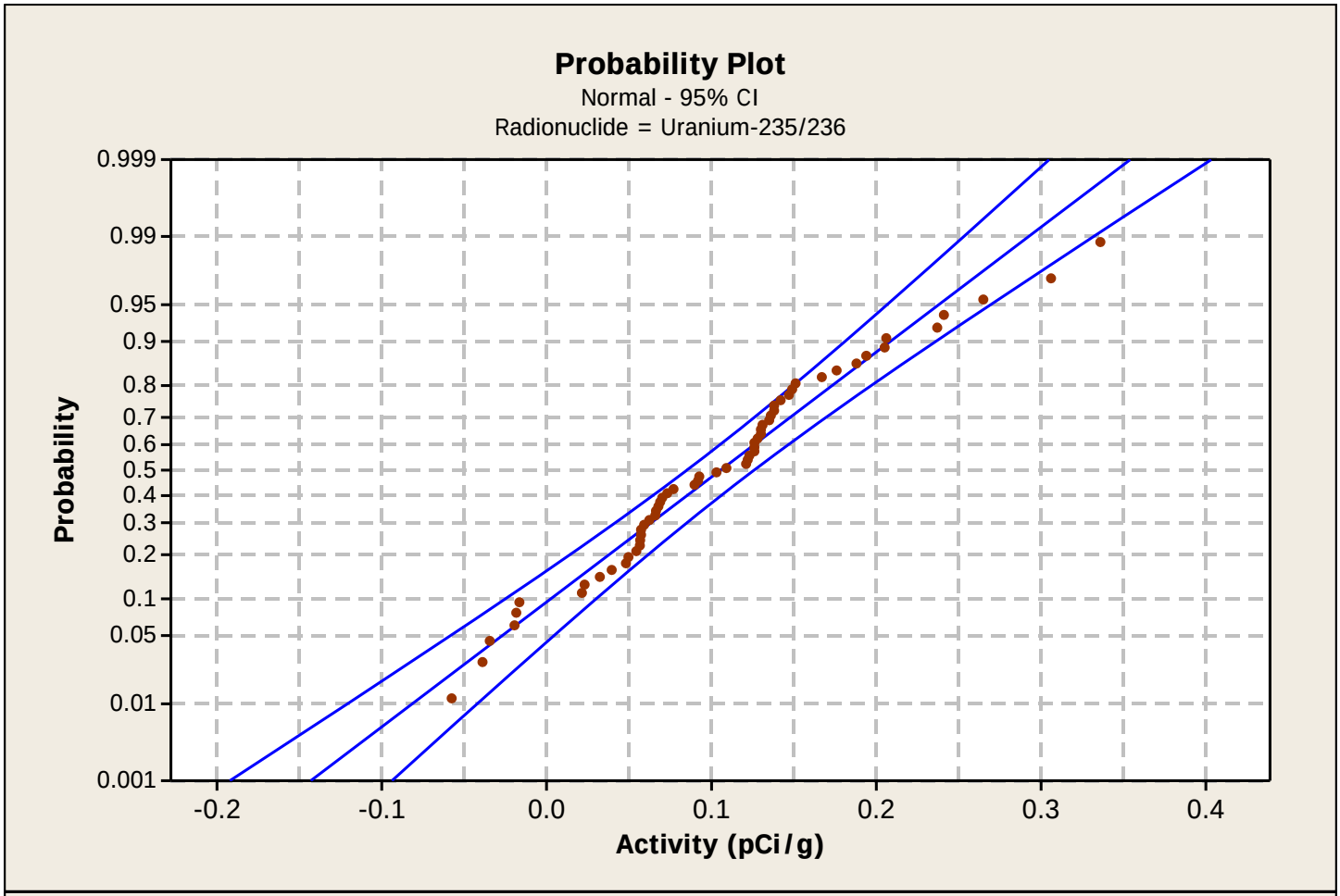

Boxplot
Metal = Tungsten
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
70
60
50
40
30
20
10
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

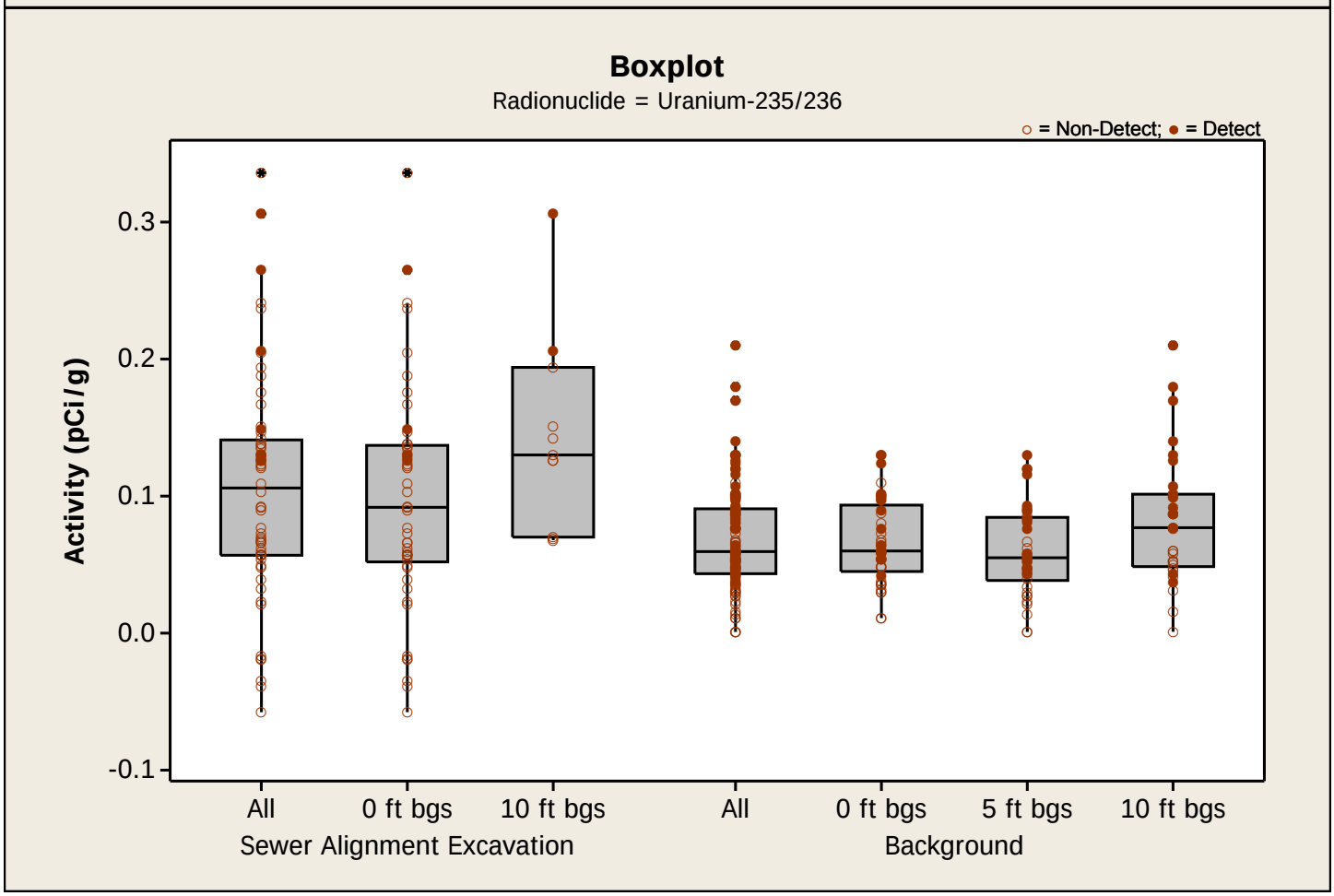

Probability Plot
Normal - 95% CI
Metal = Uranium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-5.0
-2.5
0.0
2.5
5.0
7.5
10.0
Concentration (mg/kg)

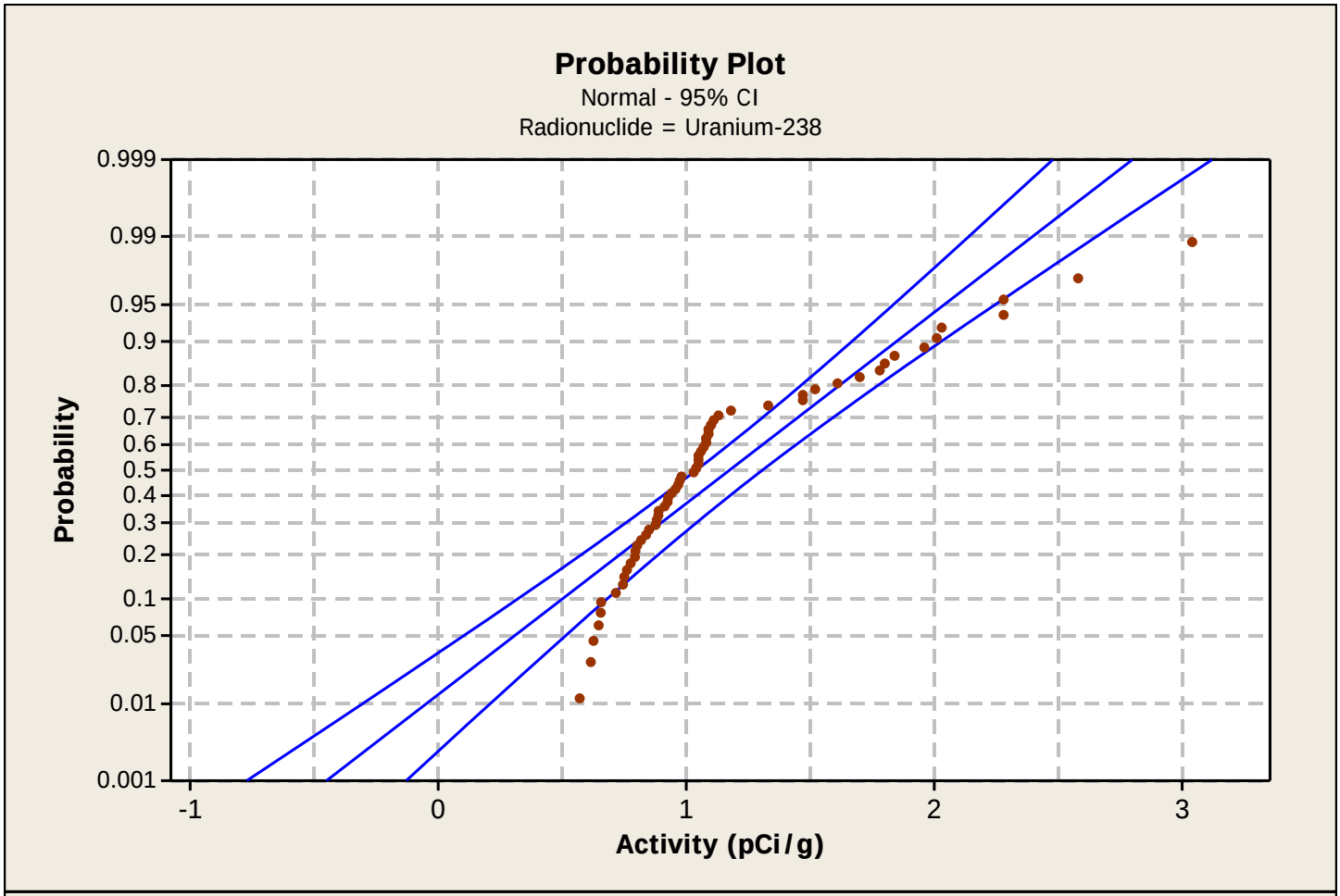

Boxplot
Metal = Uranium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
0
1
2
3
4
5
6
7
8
9
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

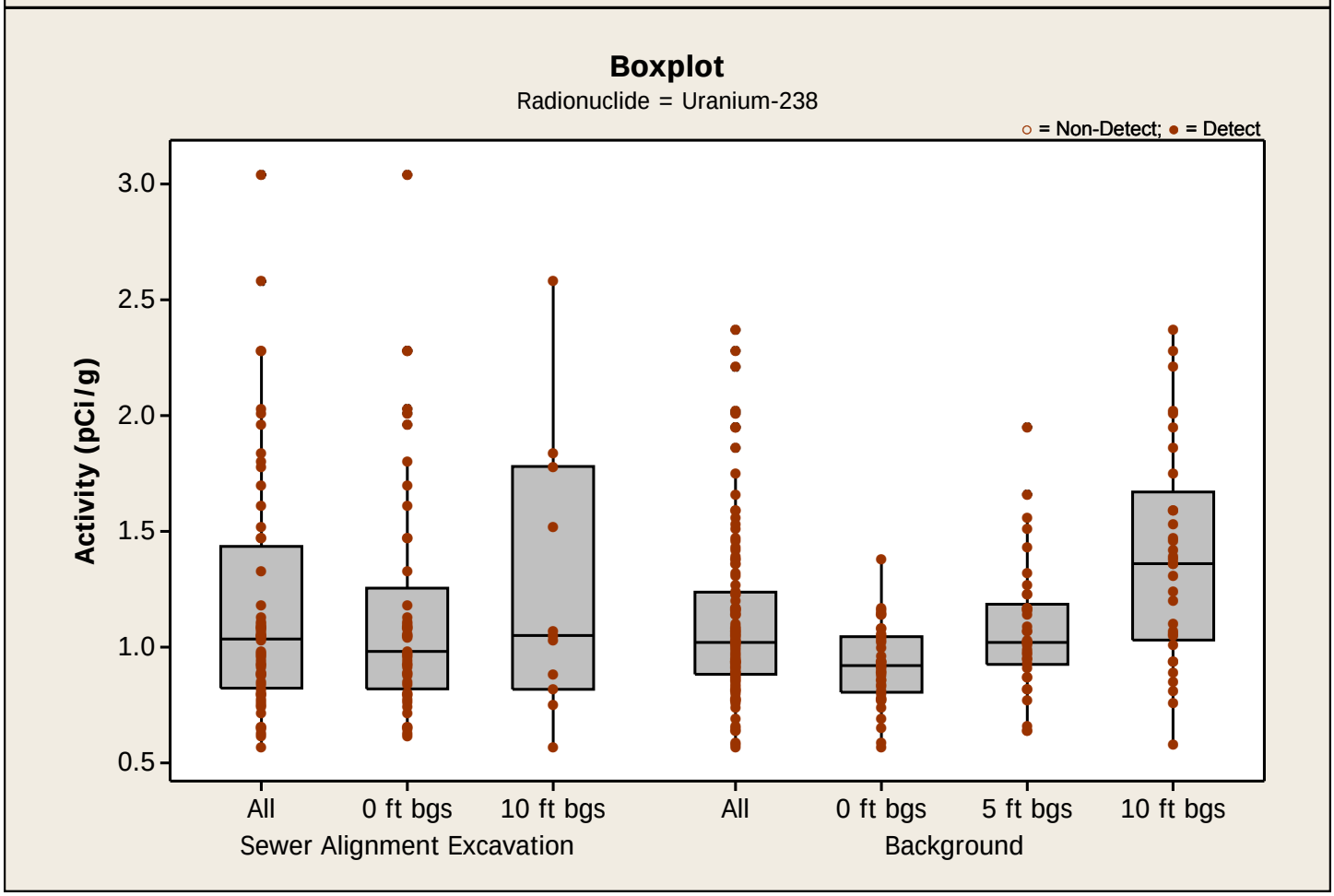

Probability Plot
Normal - 95% CI
Radionuclide = Uranium-233/234
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1
0
1
2
3
4
Activity (pCi/g)

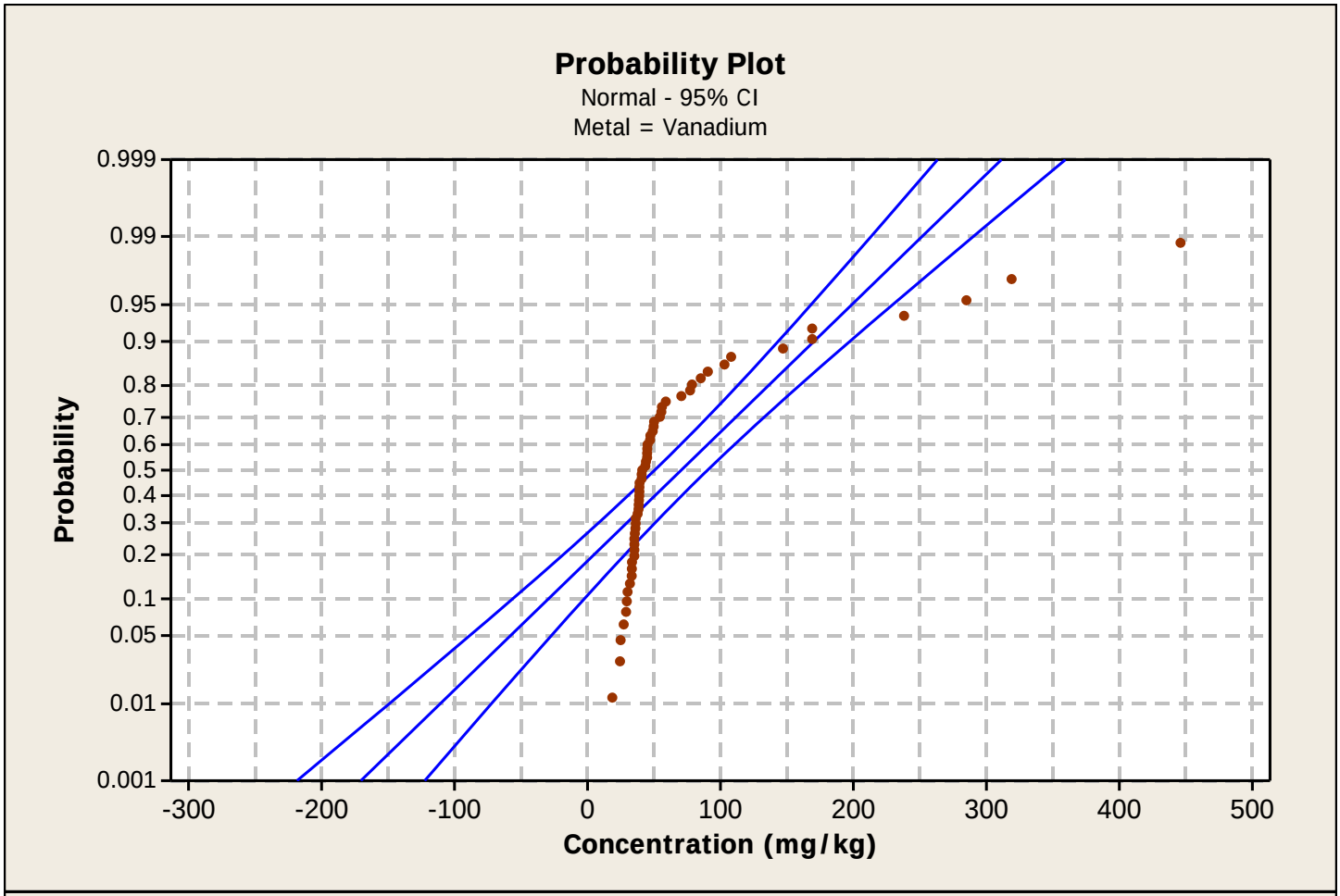

Boxplot
Radionuclide = Uranium-233/234
○ = Non-Detect; ● = Detect
Activity (pCi/g)
0
1
2
3
4
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

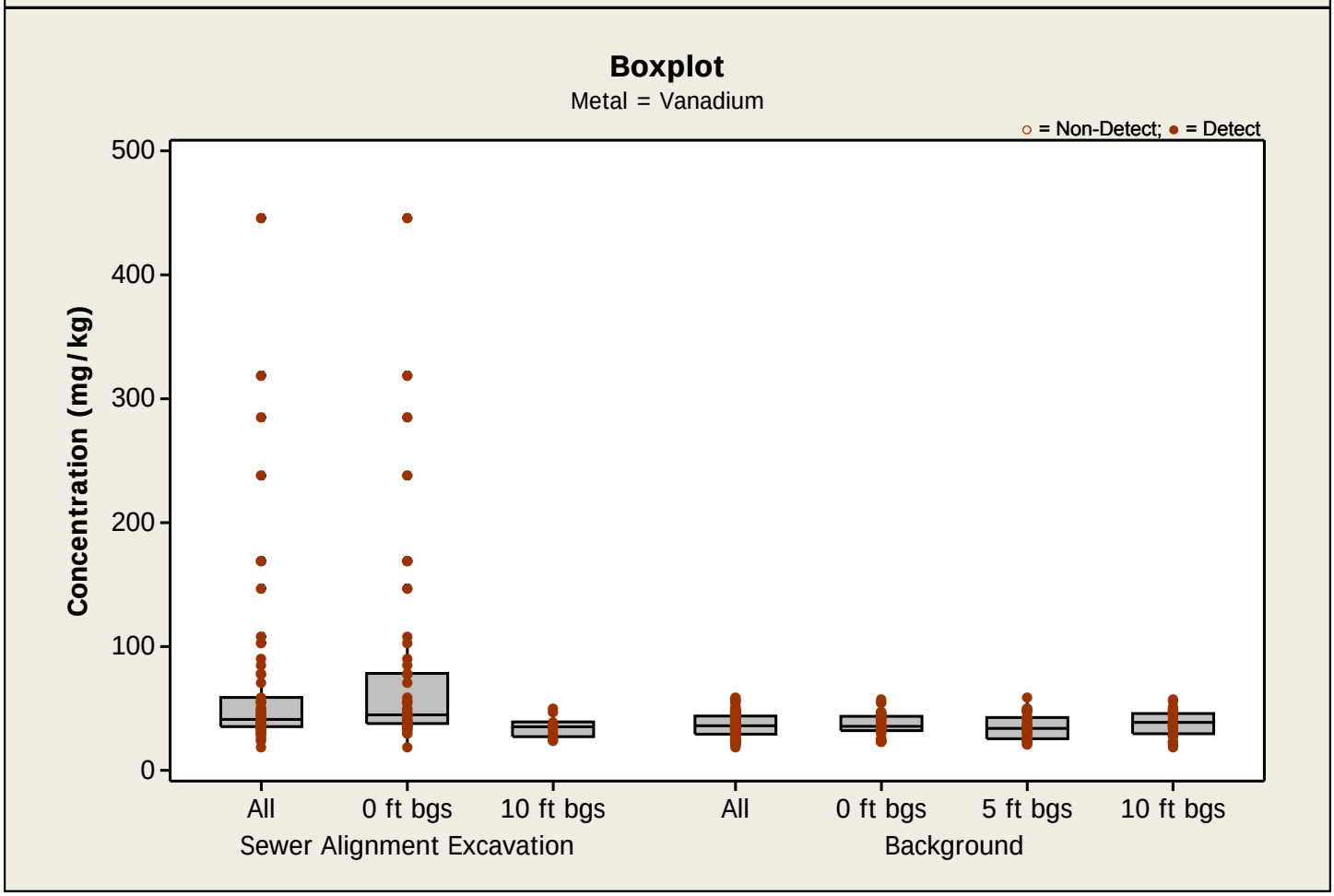

Probability Plot
Normal - 95% CI
Radionuclide = Uranium-235/236
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-0.2
-0.1
0.0
0.1
0.2
0.3
0.4
Activity (pCi/g)

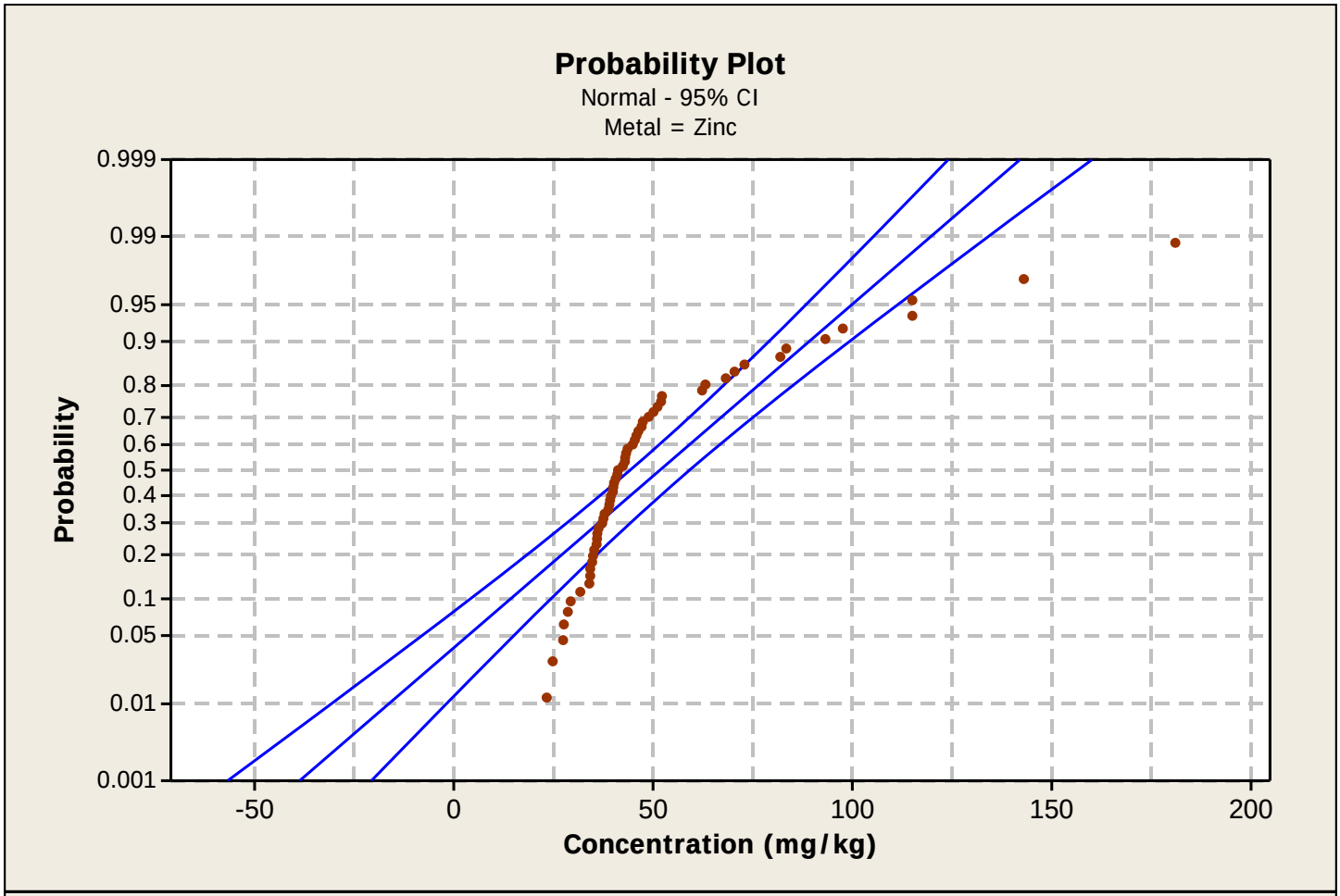

Boxplot
Radionuclide = Uranium-235/236
○ = Non-Detect; ● = Detect
Activity (pCi/g)
0.3
0.2
0.1
0.0
-0.1
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

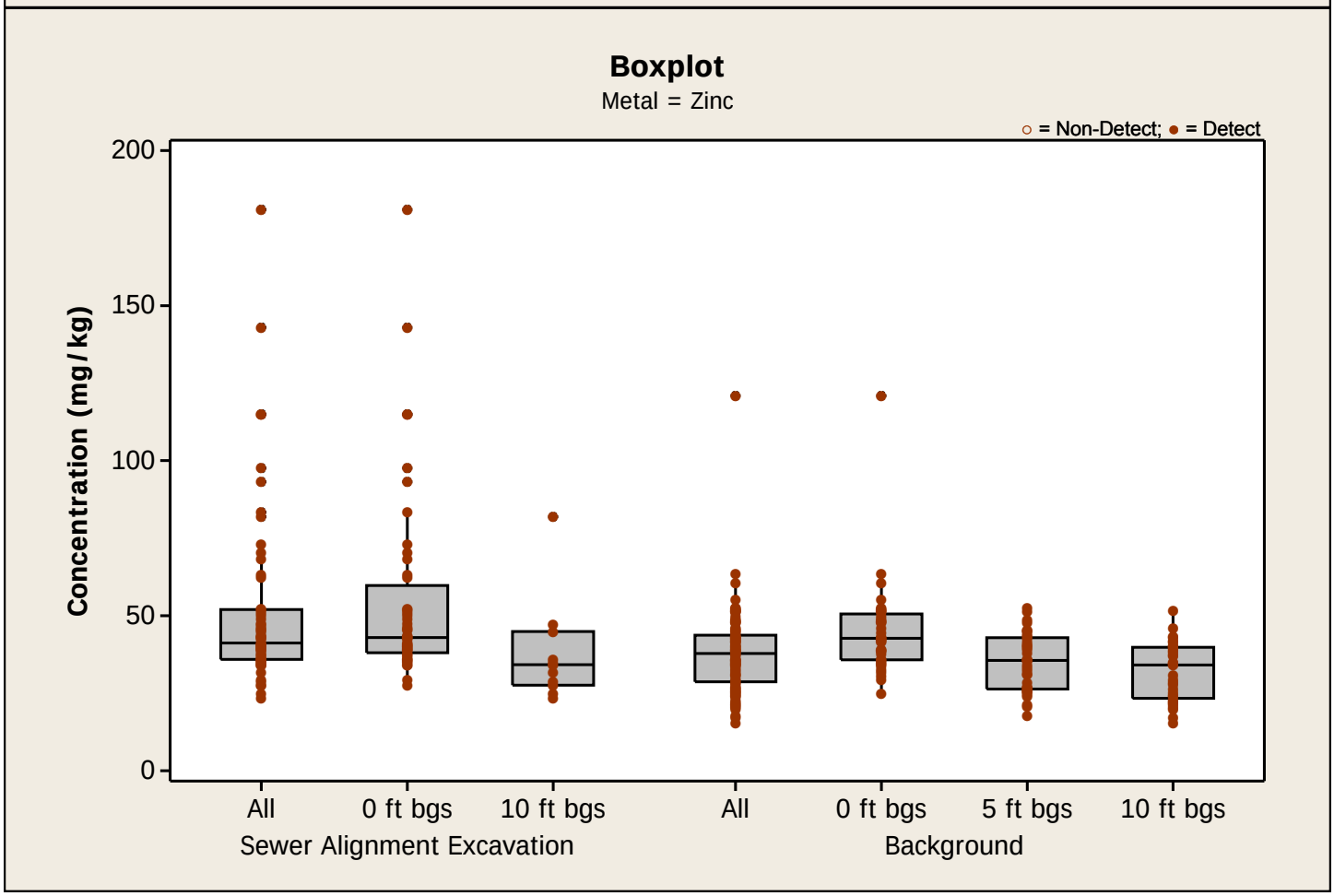

Probability Plot
Normal - 95% CI
Radionuclide = Uranium-238
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-1
0
1
2
3
Activity (pCi/g)

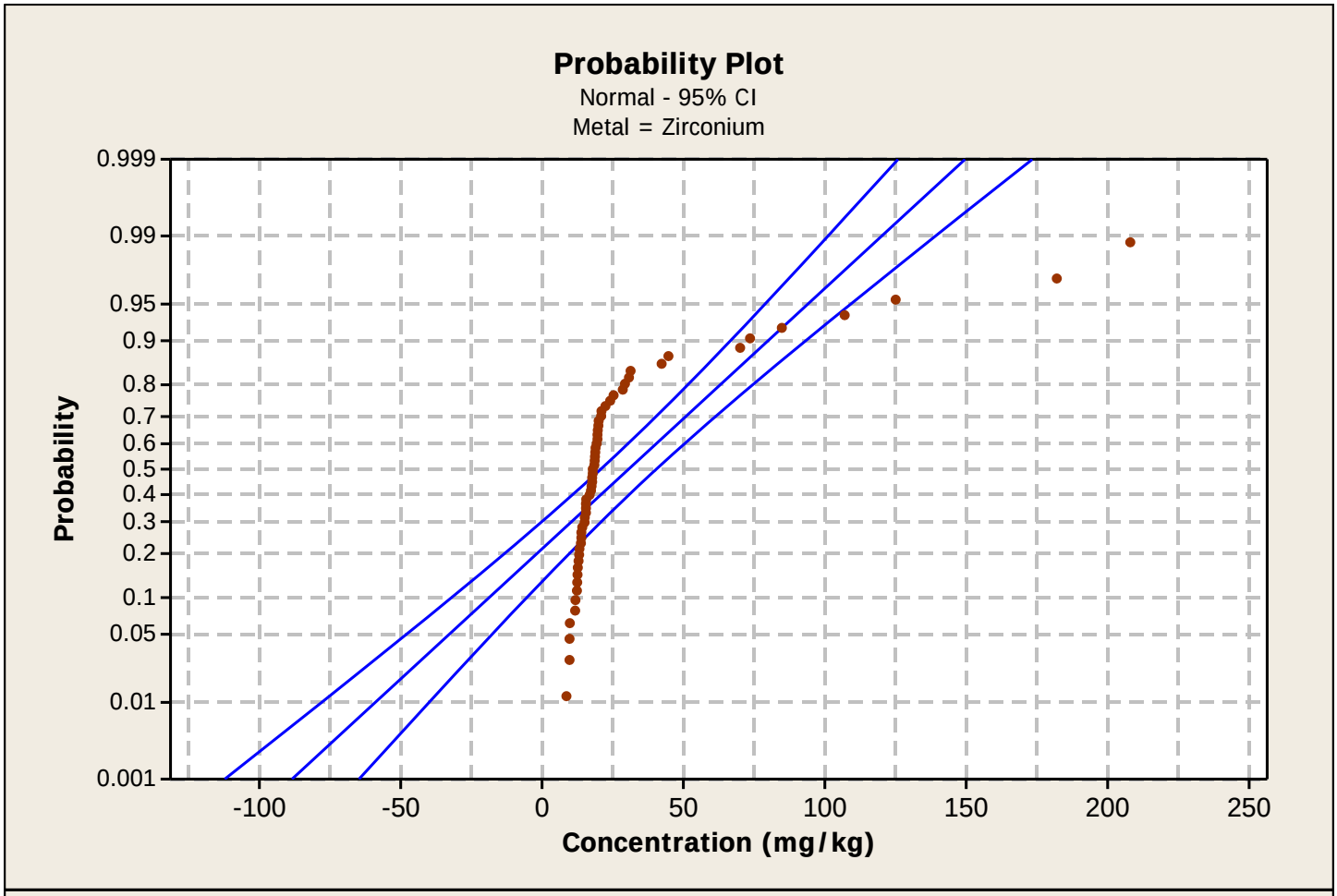

Boxplot
Radionuclide = Uranium-238
○ = Non-Detect; ● = Detect
Activity (pCi/g)
3.0
2.5
2.0
1.5
1.0
0.5
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background

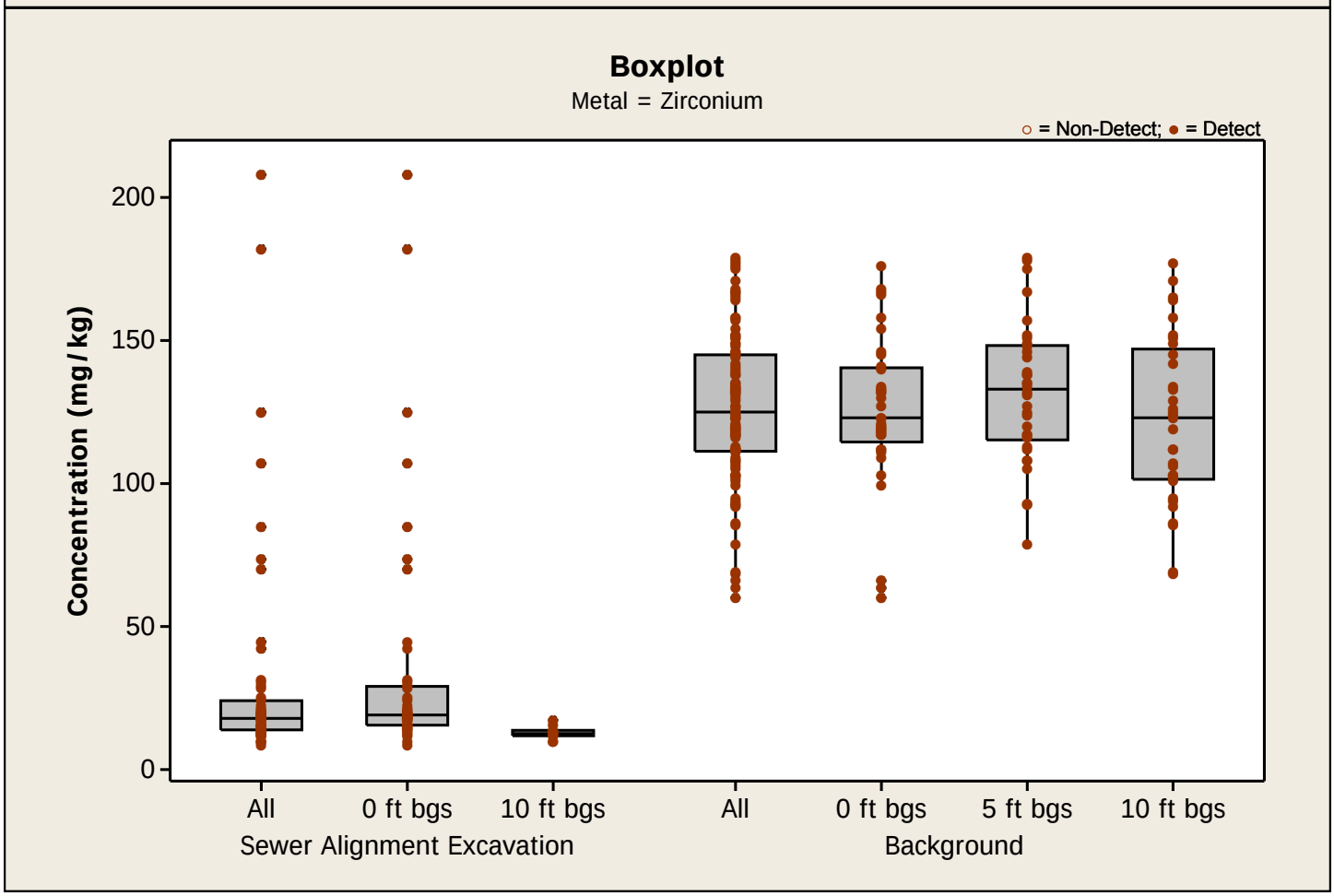

Probability Plot
Normal - 95% CI
Metal = Vanadium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-300
-200
-100
0
100
200
300
400
500
Concentration (mg/kg)


Boxplot
Metal = Vanadium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
500
400
300
200
100
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background


Probability Plot
Normal - 95% CI
Metal = Zinc
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-50
0
50
100
150
200
Concentration (mg/kg)

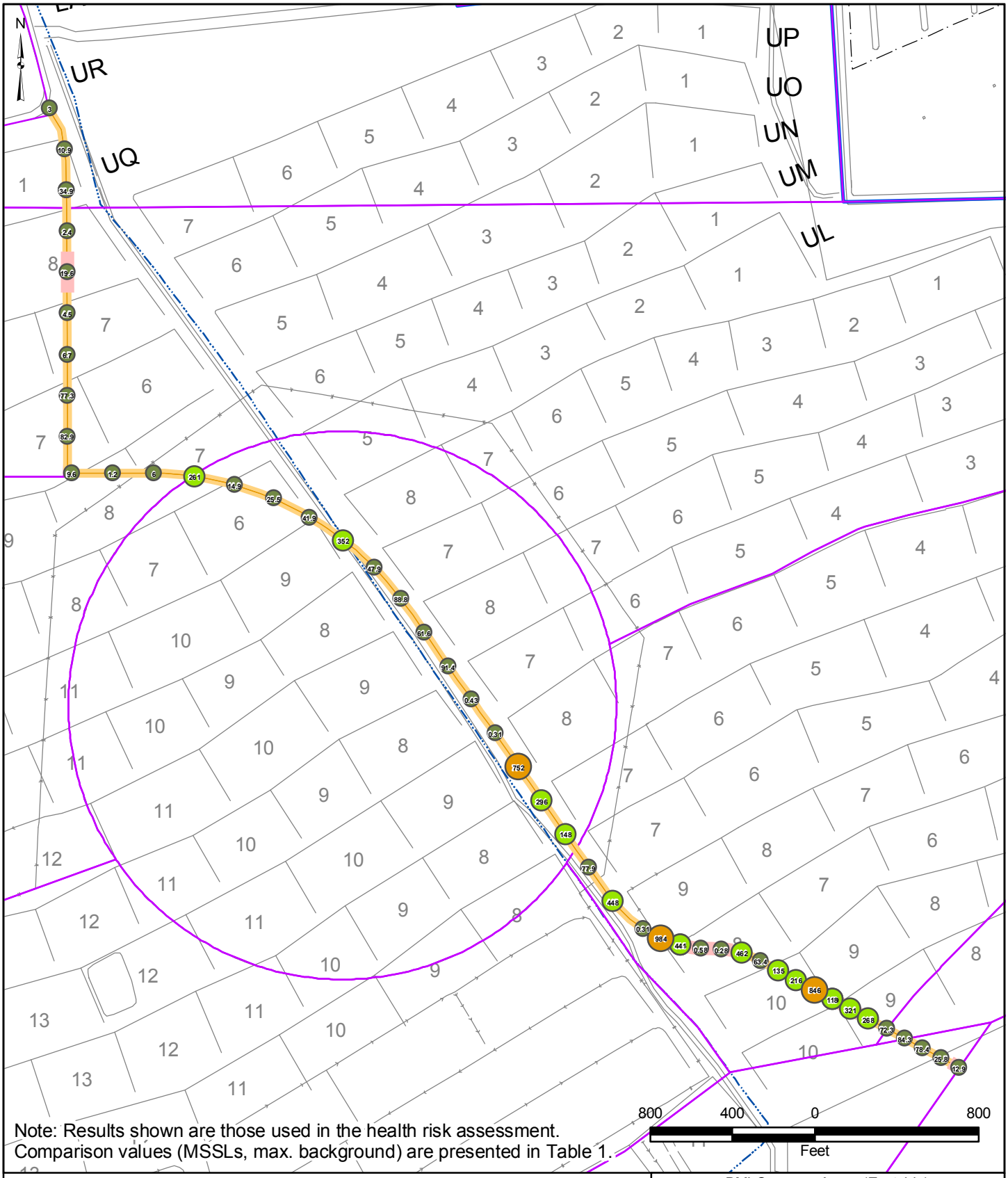

Boxplot
Metal = Zinc
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
200
150
100
50
0
All
0 ft bgs
10 ft bgs
All
0 ft bgs
5 ft bgs
10 ft bgs
Sewer Alignment Excavation
Background


Probability Plot
Normal - 95% CI
Metal = Zirconium
Probability
0.999
0.99
0.95
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.05
0.01
0.001
-100
-50
0
50
100
150
200
250
Concentration (mg/kg)


Boxplot
Metal = Zirconium
○ = Non-Detect; ● = Detect
Concentration (mg/kg)
200
150
100
50
0
All
0 ft bgs
10 ft bgs
Sewer Alignment Excavation
All
0 ft bgs
5 ft bgs
10 ft bgs
Background

ATTACHMENT D

CHEMICALS OF POTENTIAL CONCERN (COPC) BUBBLE PLOTS



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < 100 ppt
>= 100 ppt and < 500 ppt
>= 500 ppt and < 1,000 ppt
>= 1,000 ppt

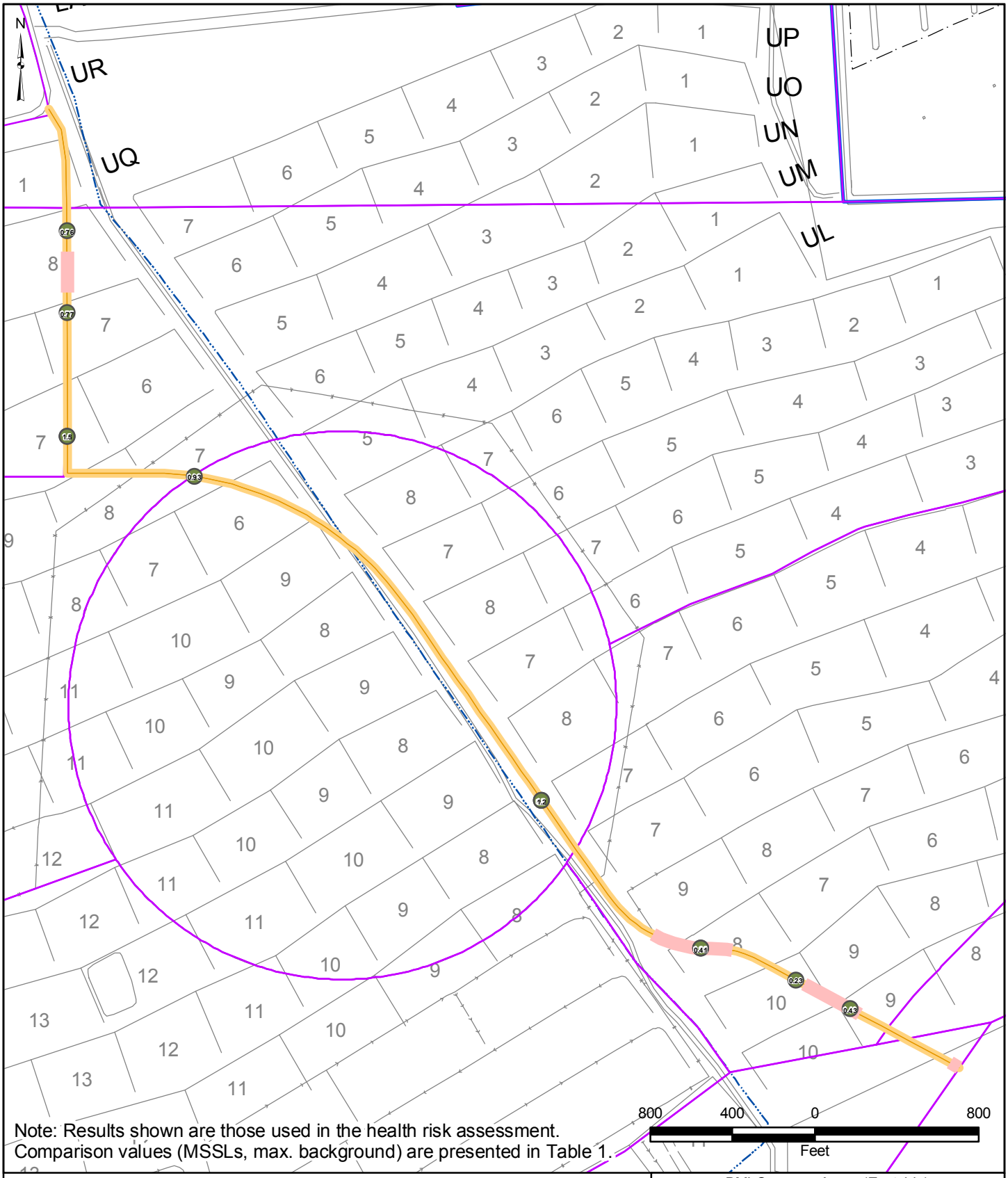
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-1

TCDD TEQ
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < 100 ppt
>= 100 ppt and < 500 ppt
>= 500 ppt and < 1,000 ppt
>= 1,000 ppt

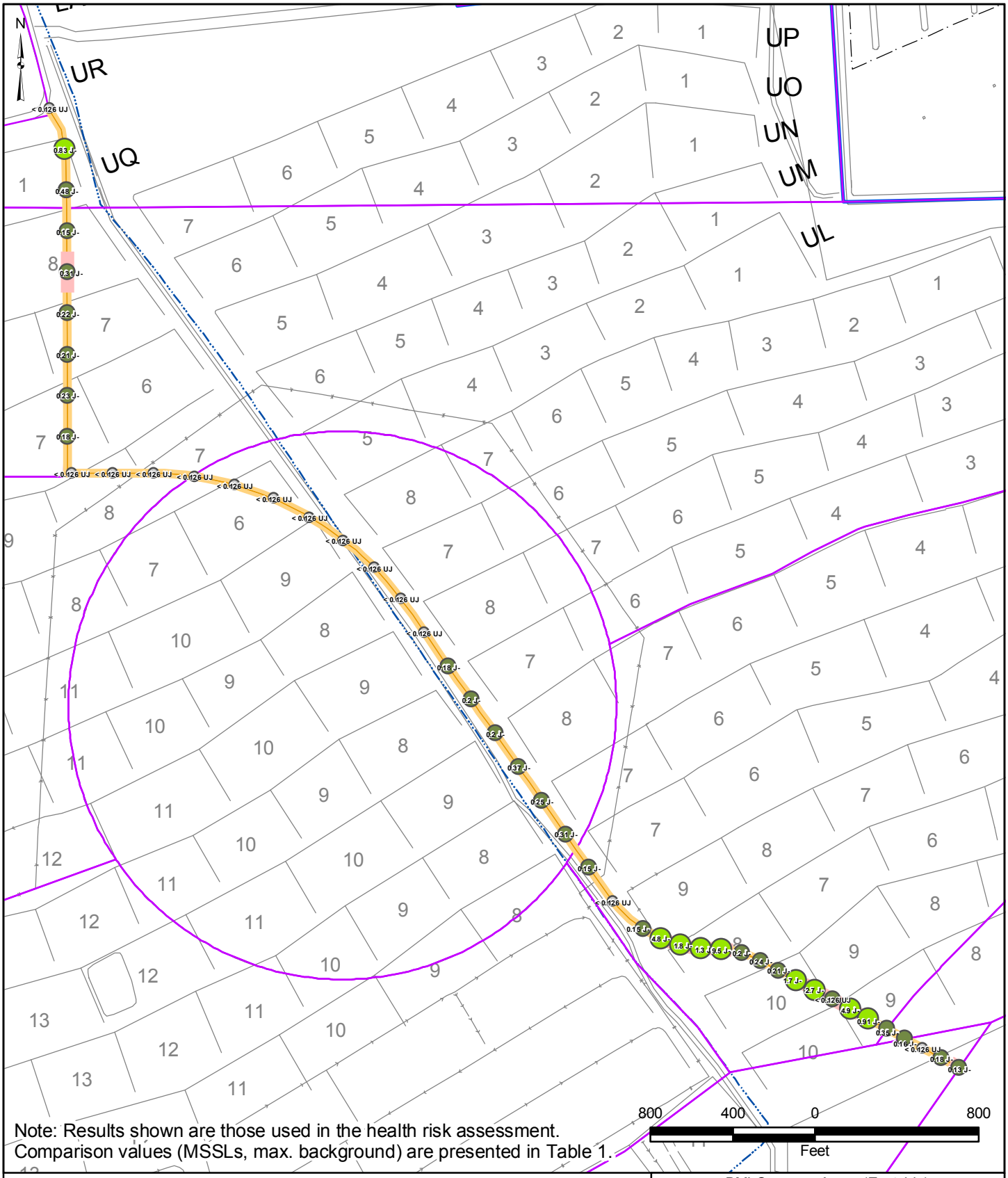
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-2

TCDD TEQ
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

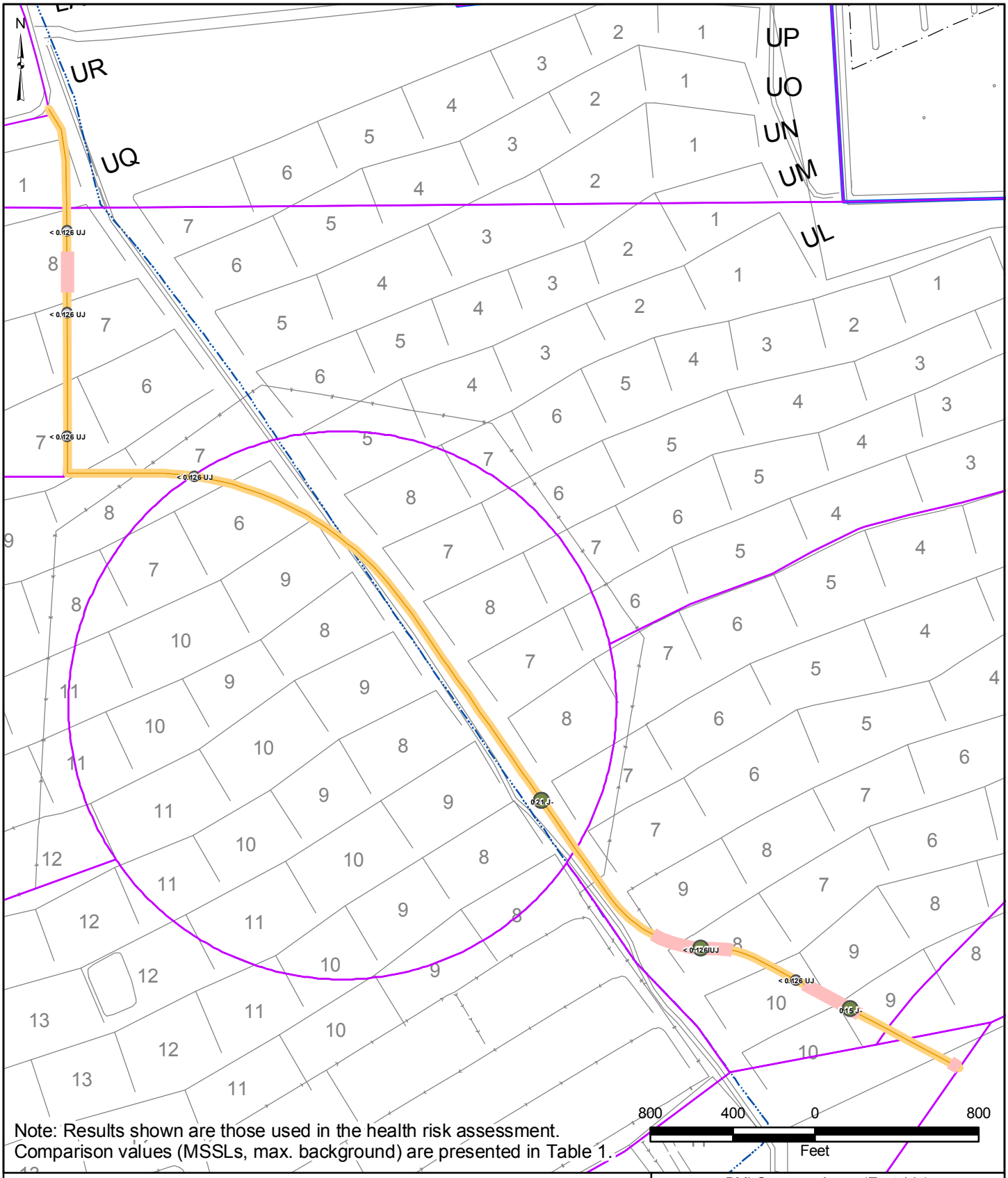
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-3

ANTIMONY
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

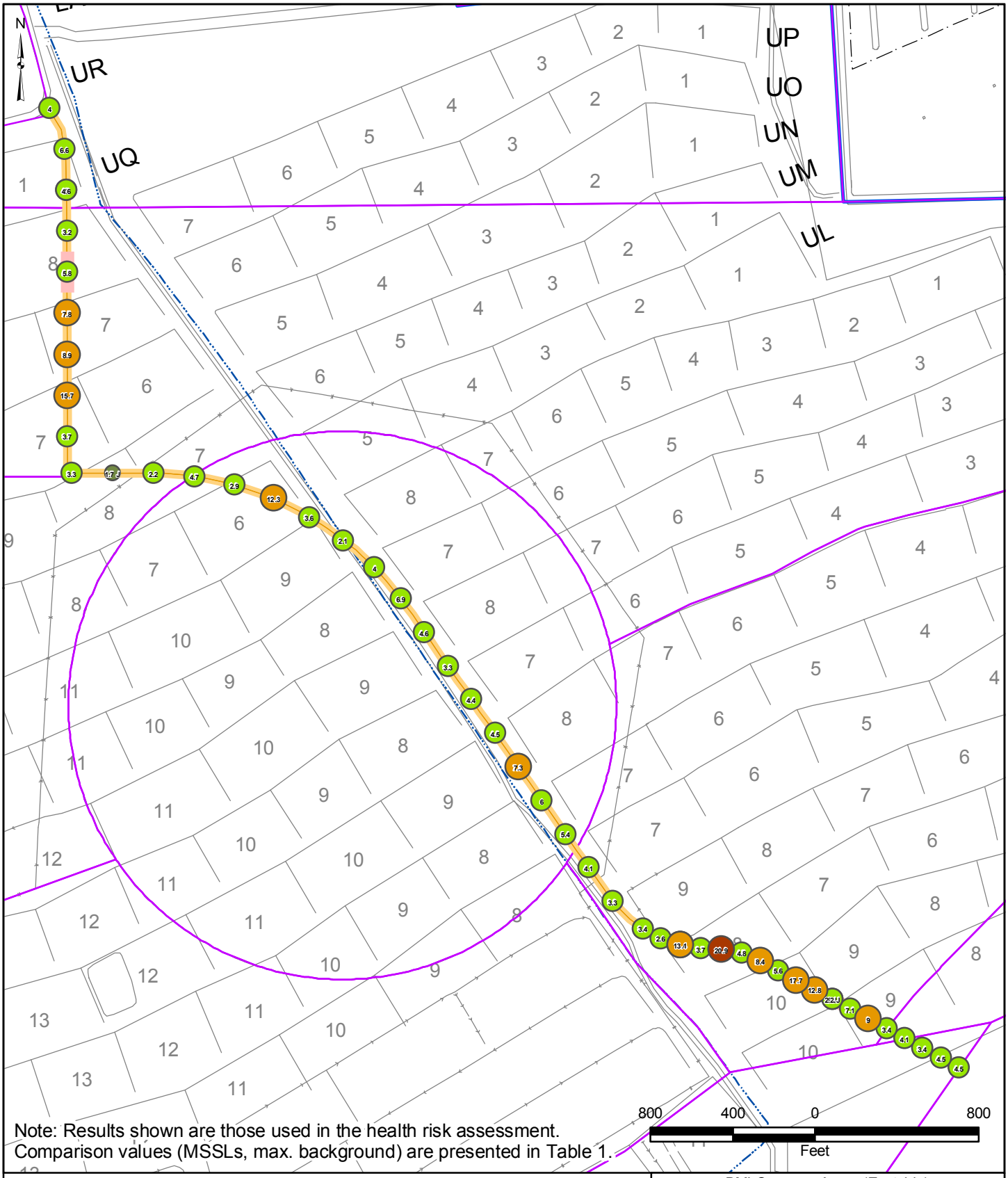
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-4

ANTIMONY
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Worker MSSL
>= MSSL and < Max. Background
>= Max. Background and < 10x MSSL
>= 10x MSSL

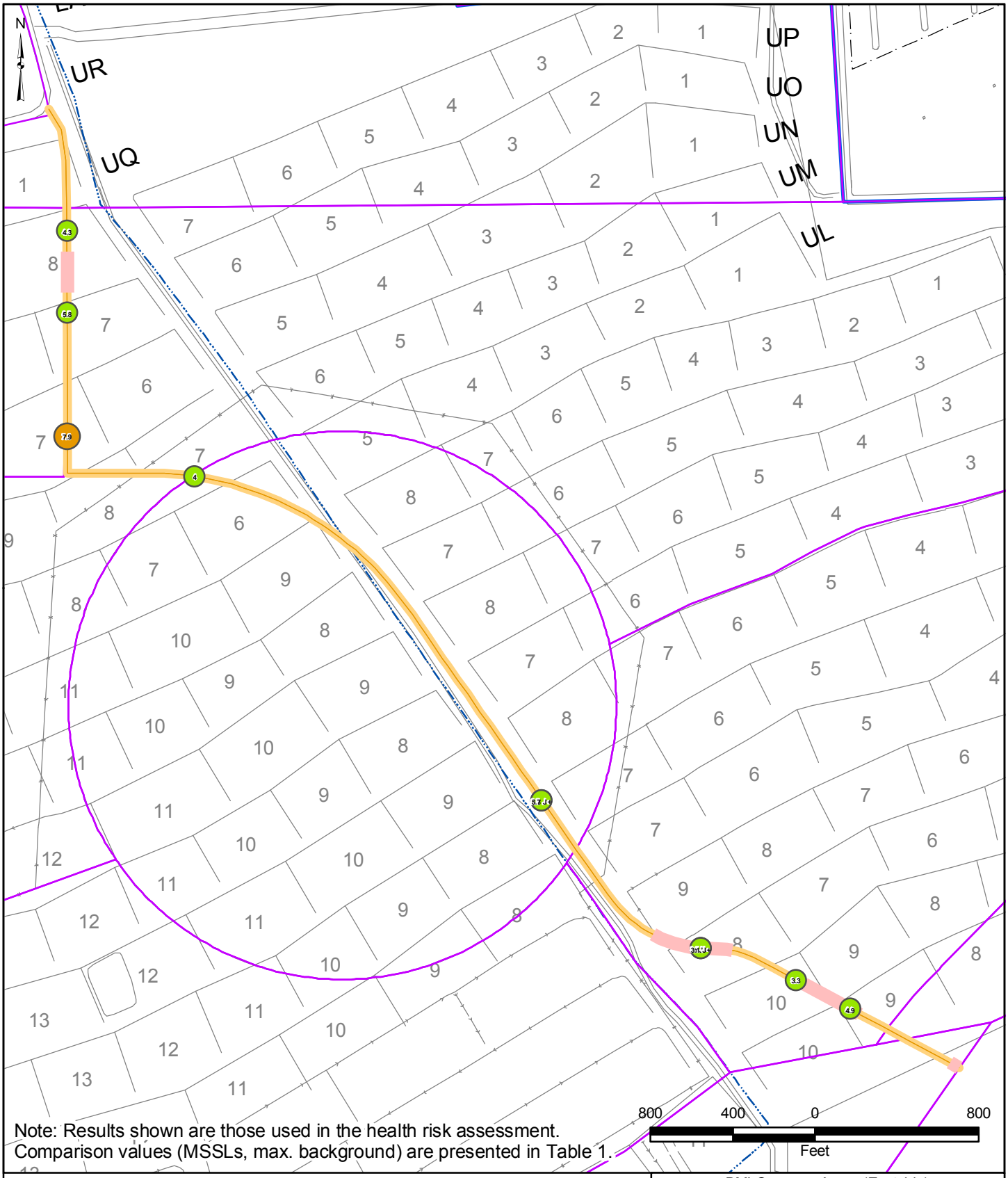
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-5

ARSENIC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Worker MSSL
>= MSSL and < Max. Background
>= Max. Background and < 10x MSSL
>= 10x MSSL

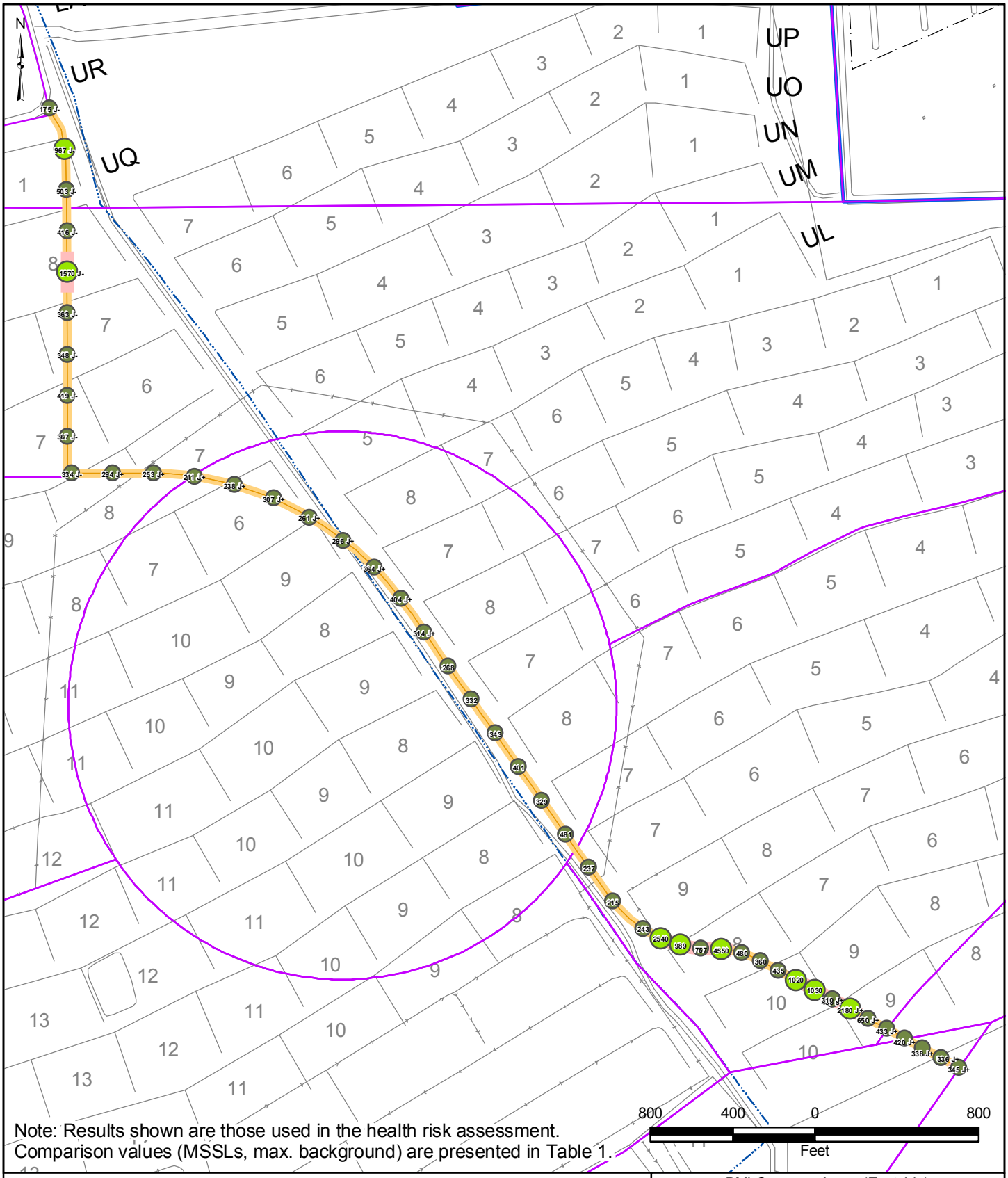
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-6

ARSENIC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

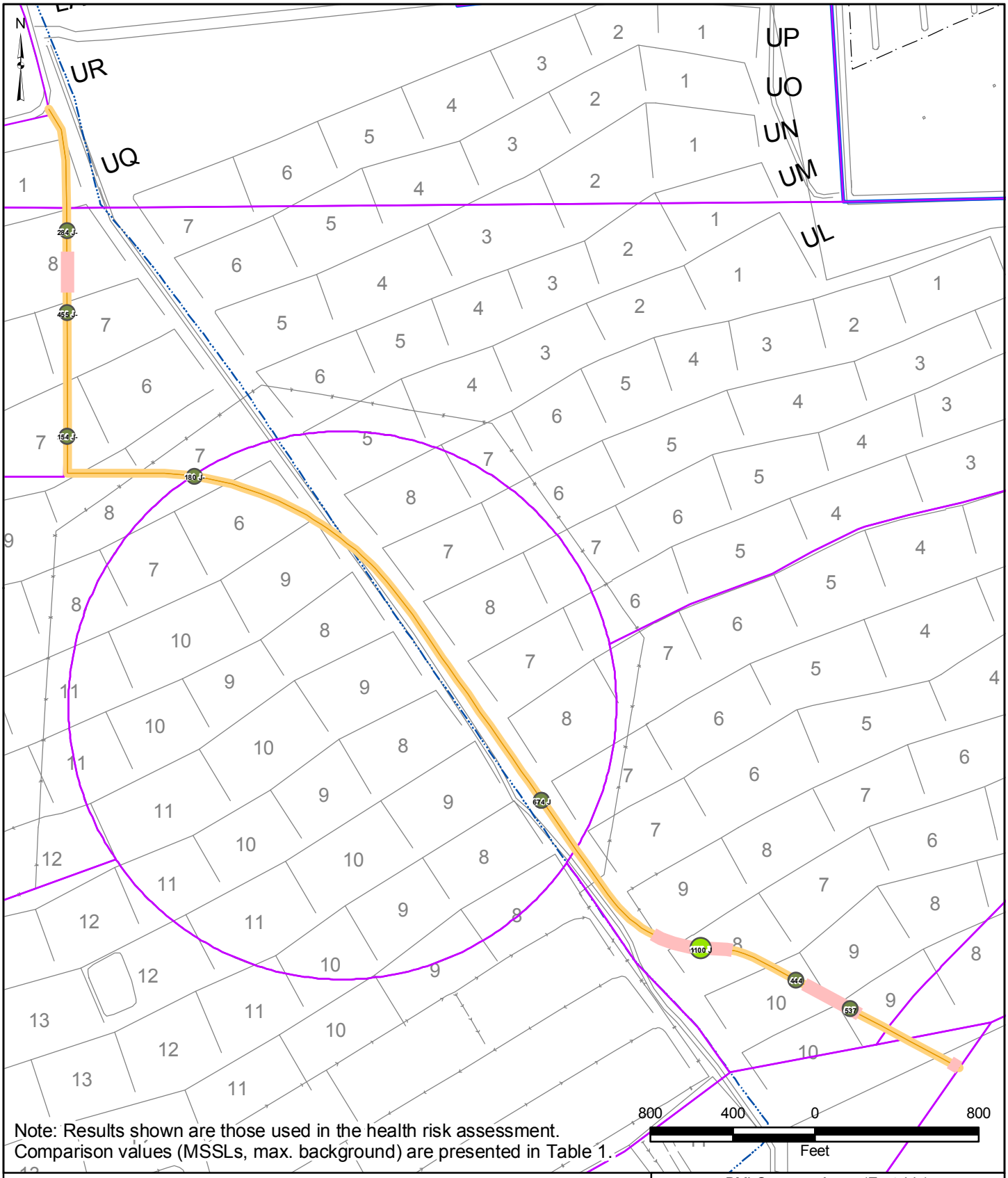
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-7

BARIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

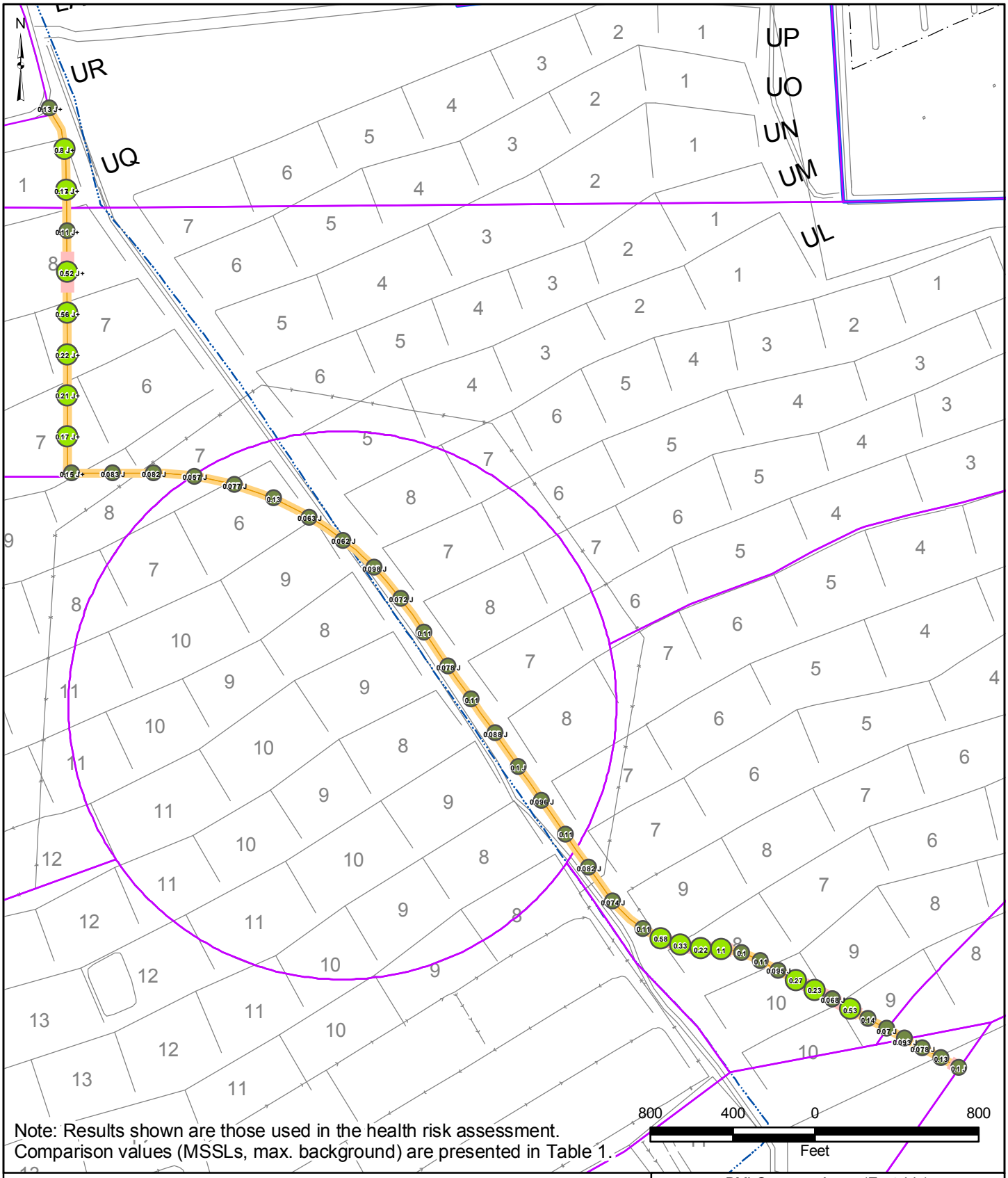
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-8

BARIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

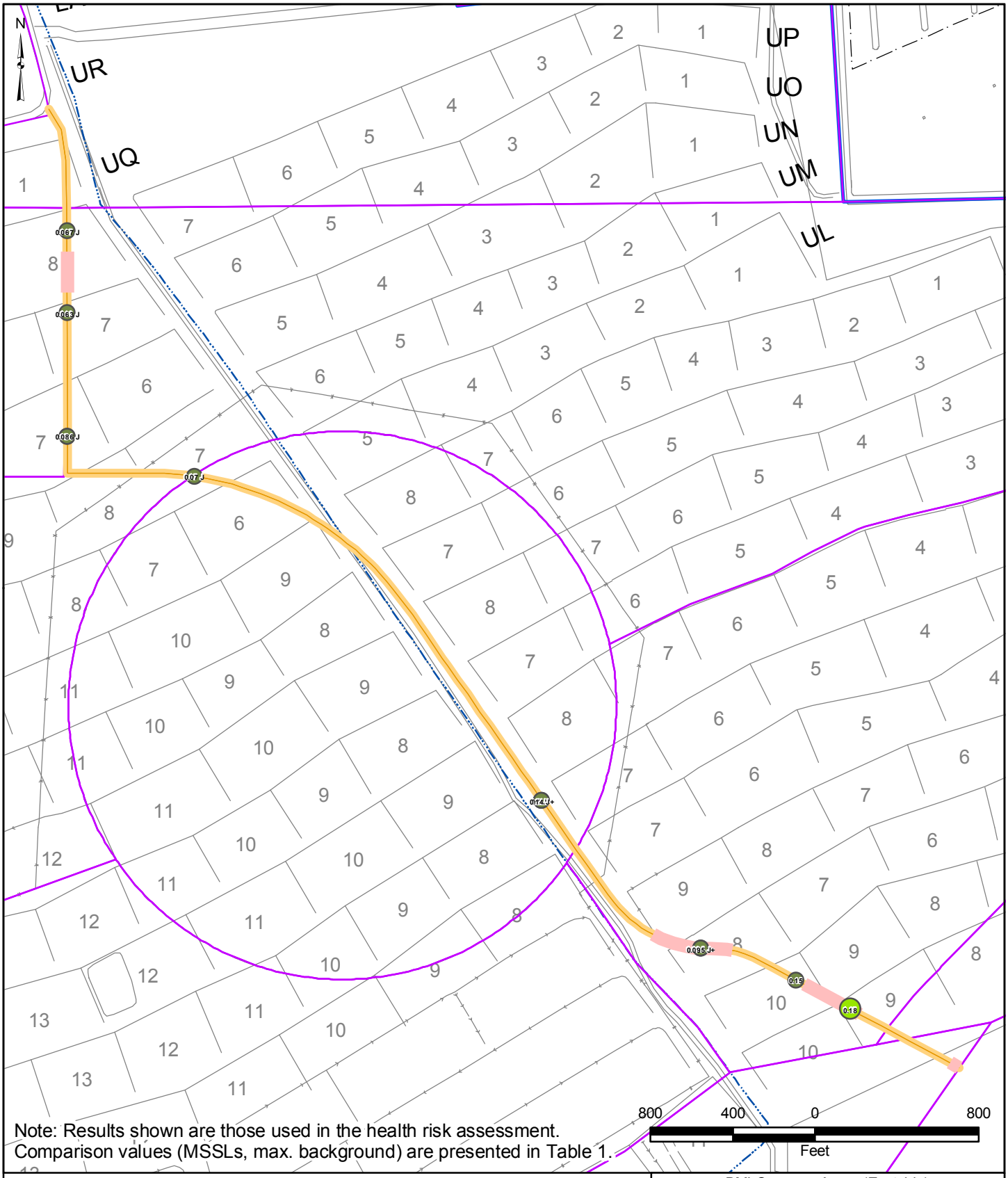
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-9

CADMIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

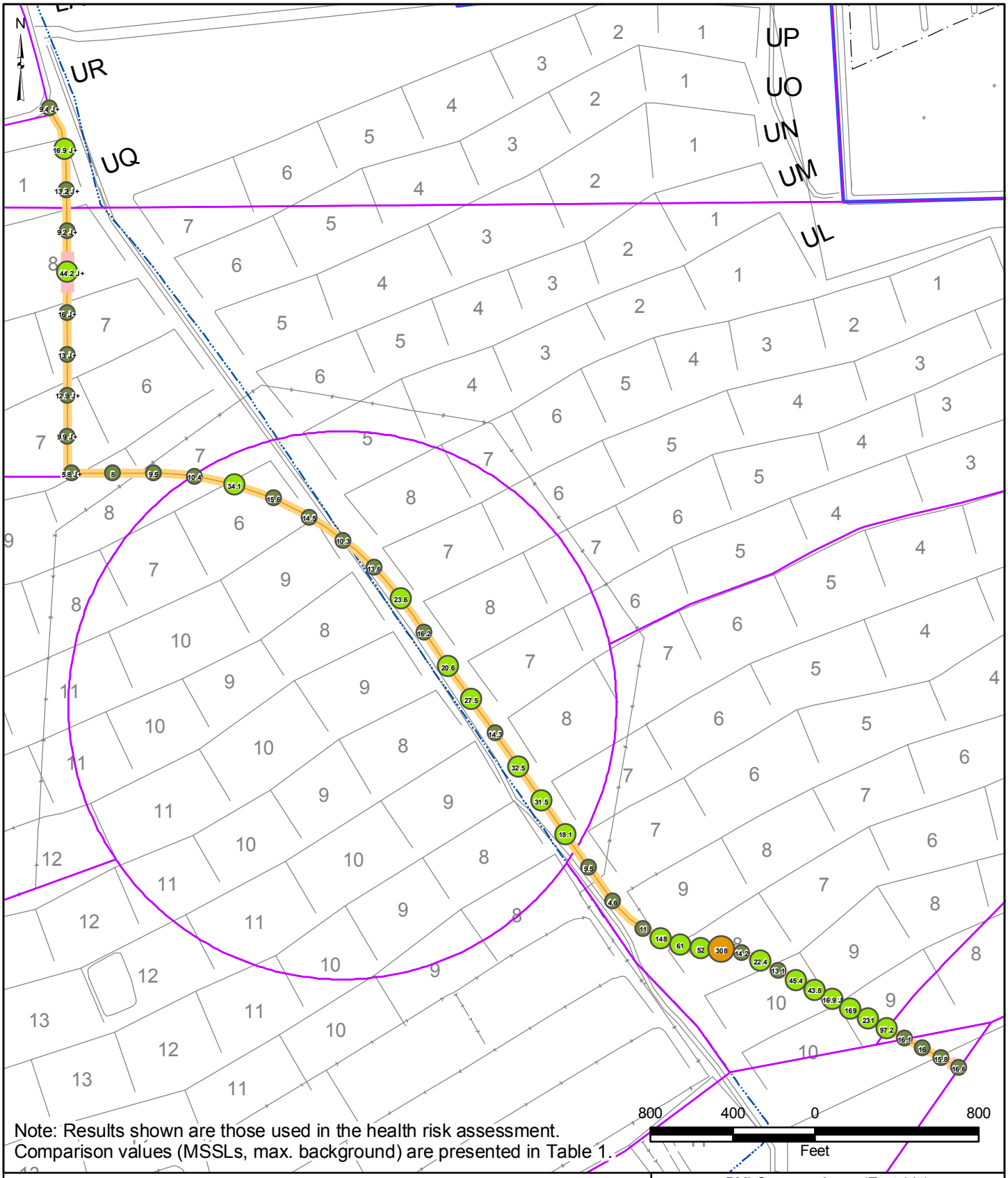
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-10

CADMIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

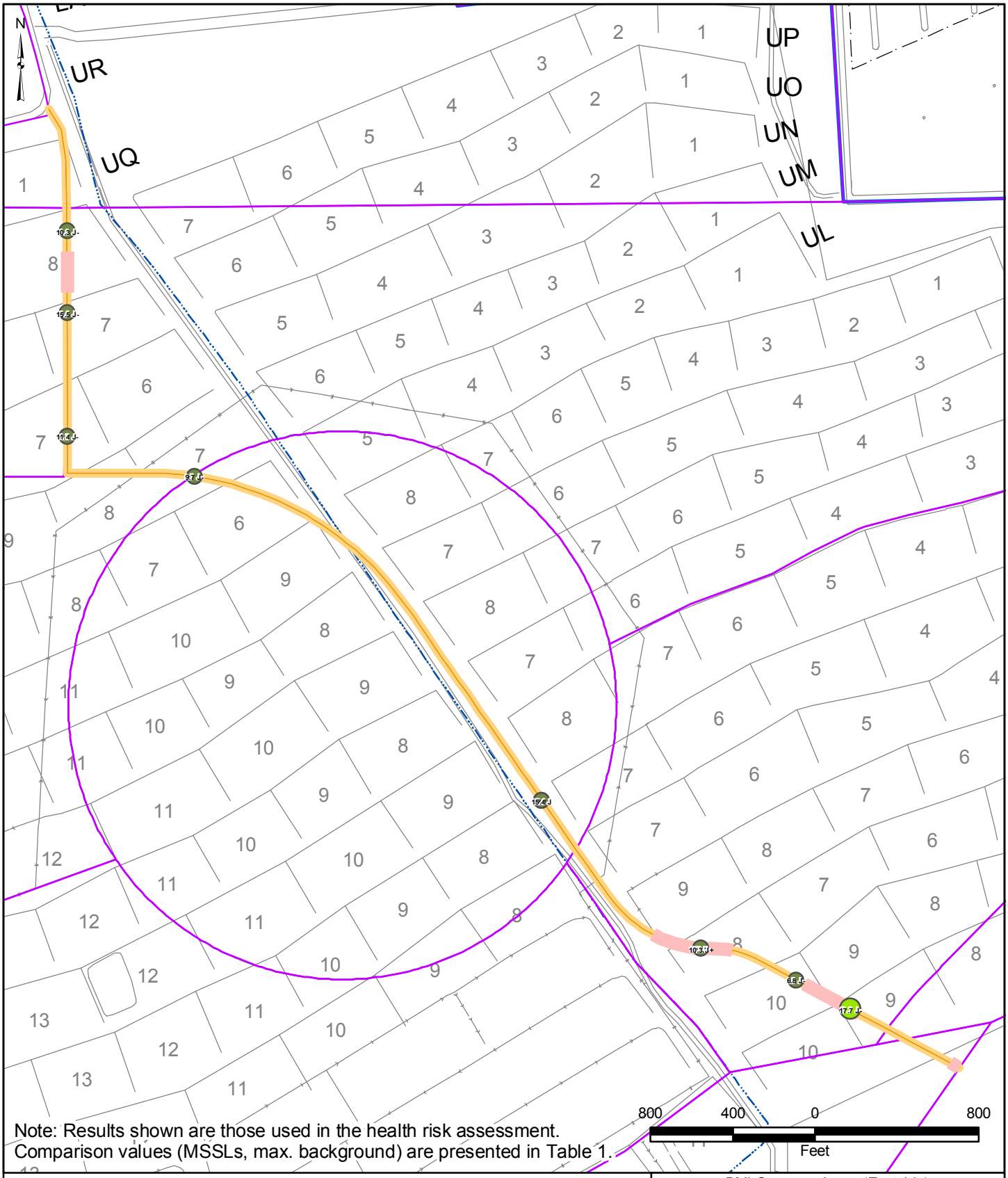
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-11

CHROMIUM (TOTAL) RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

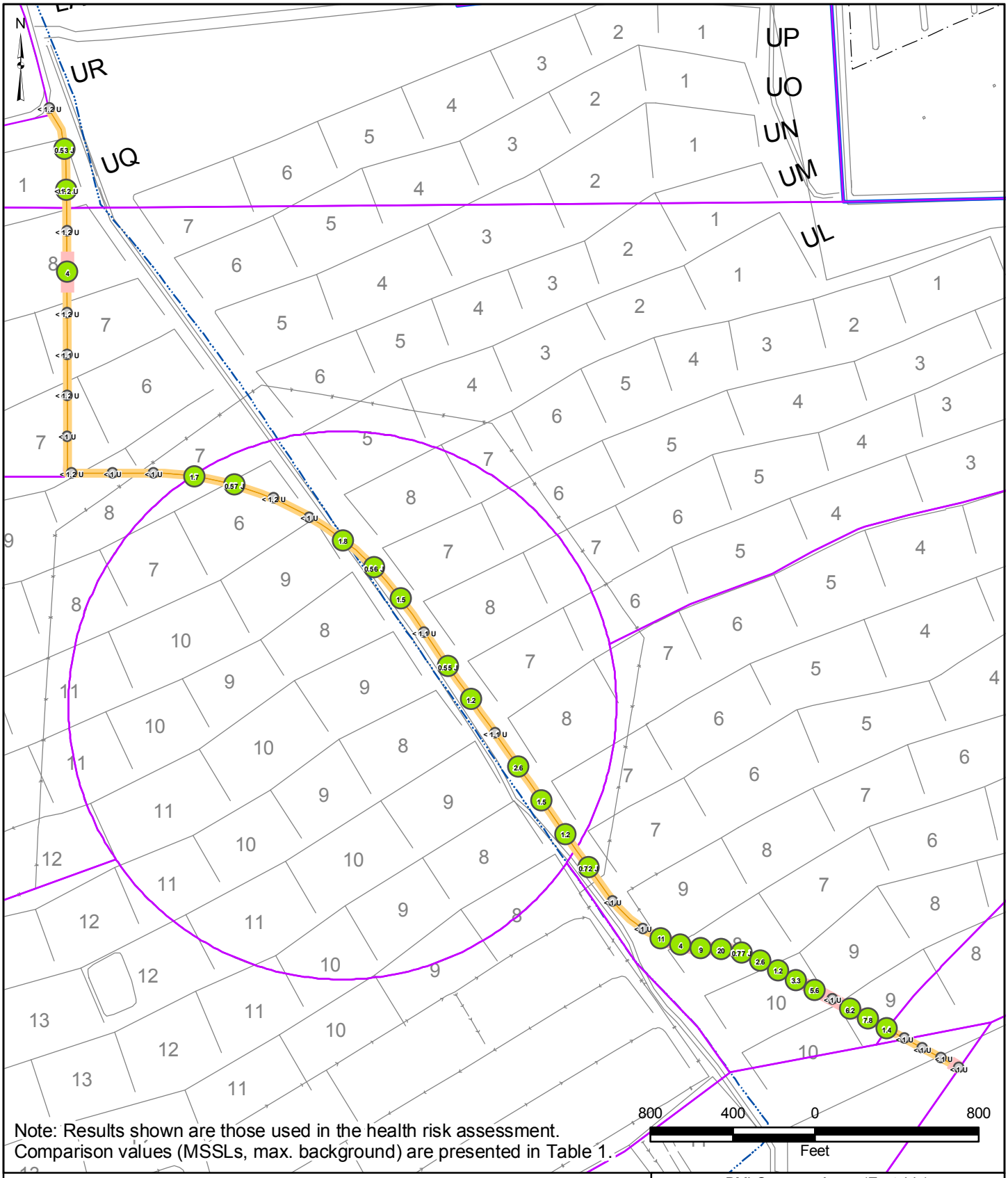
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-12

CHROMIUM (TOTAL) RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

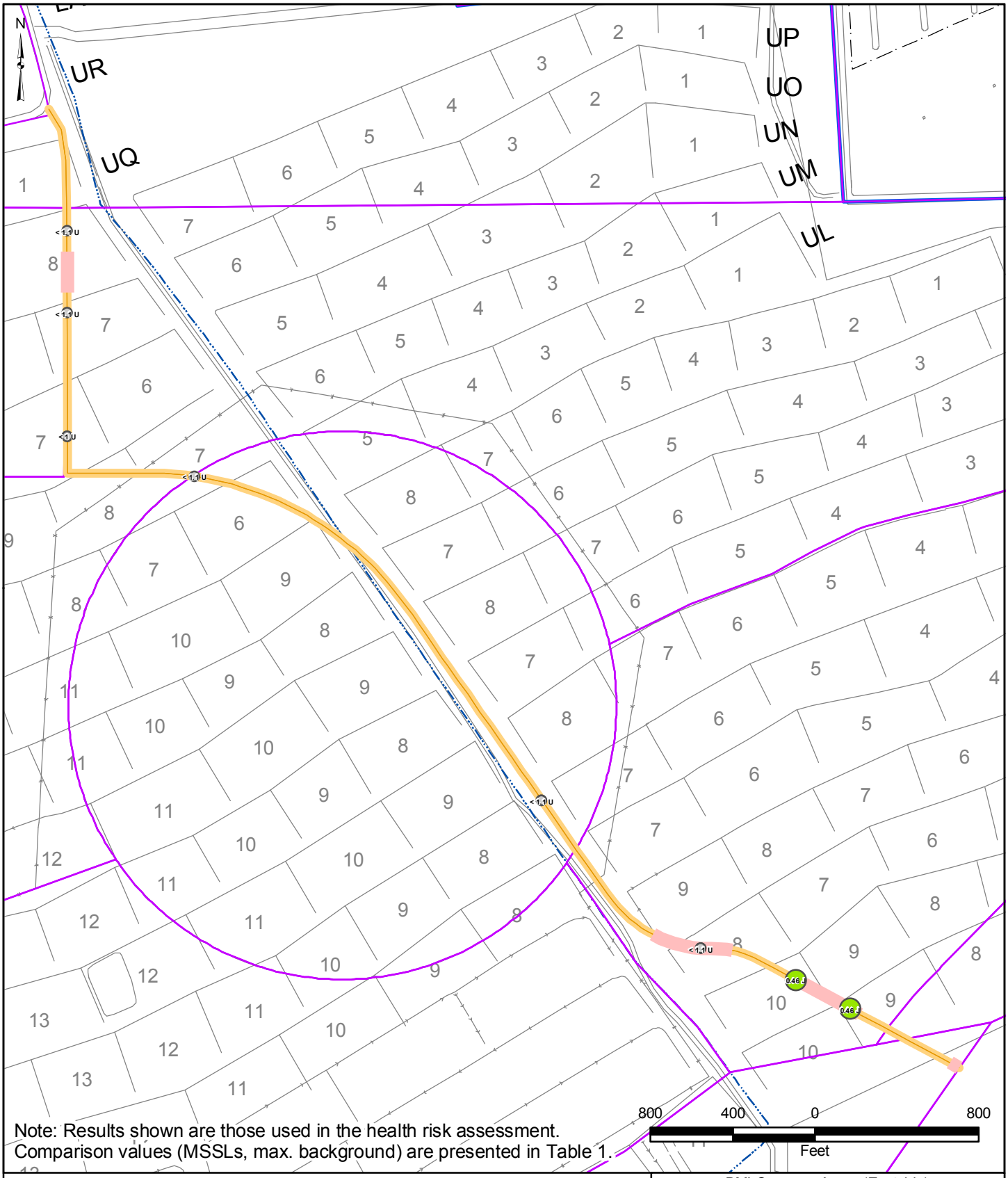
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-13

CHROMIUM (VI)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

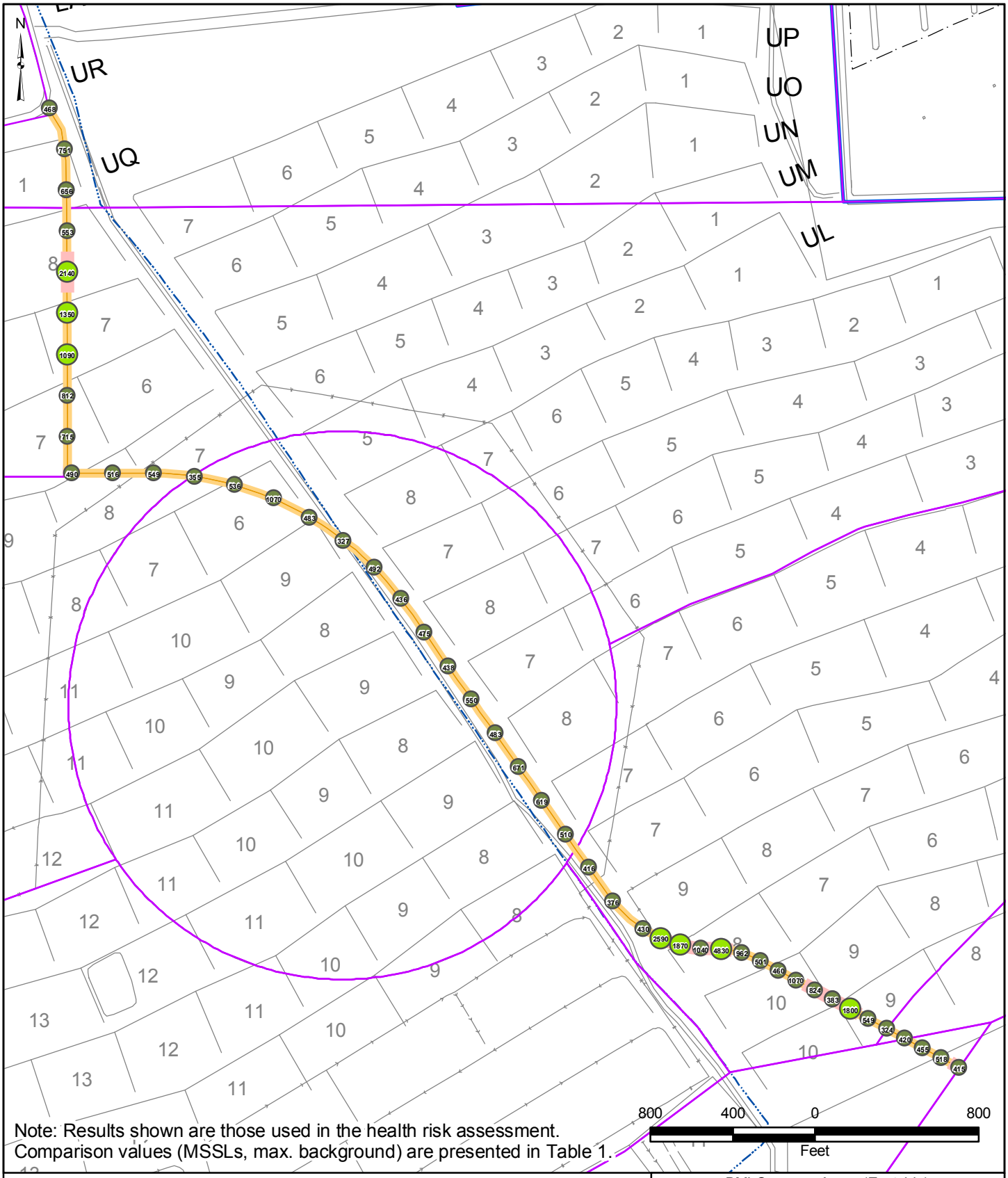
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-14

CHROMIUM (VI)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

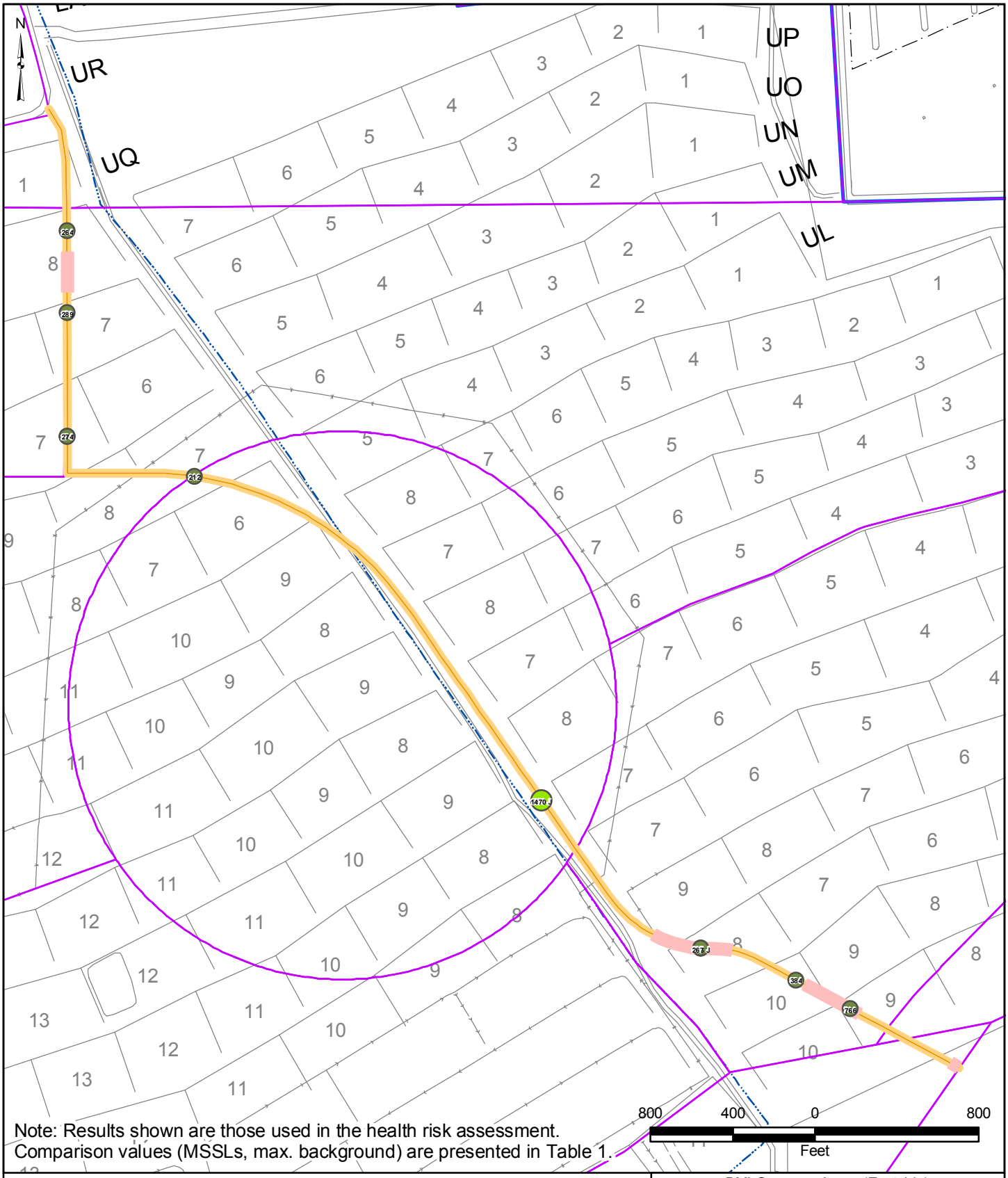
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-15

MANGANESE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

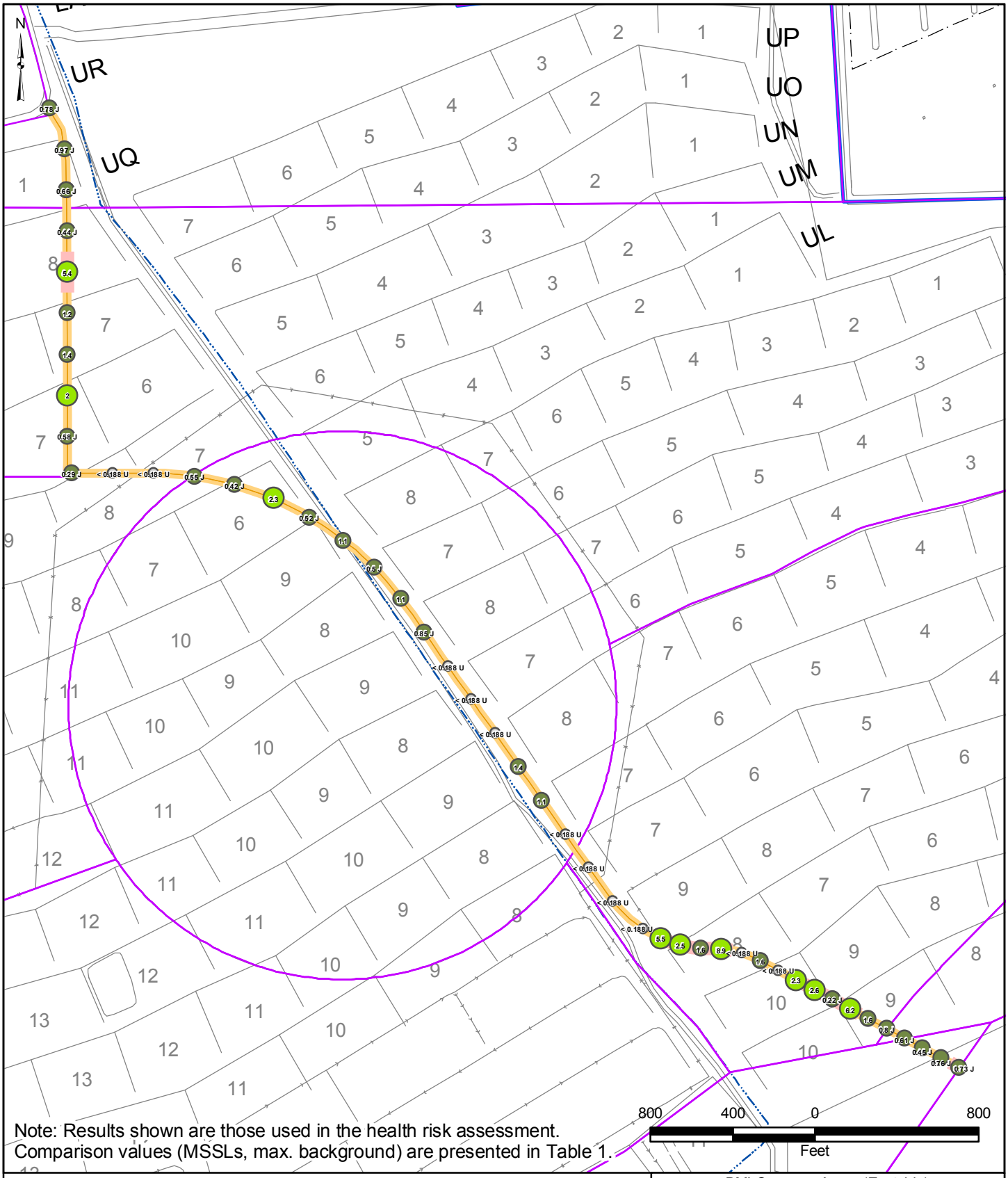
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-16

MANGANESE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

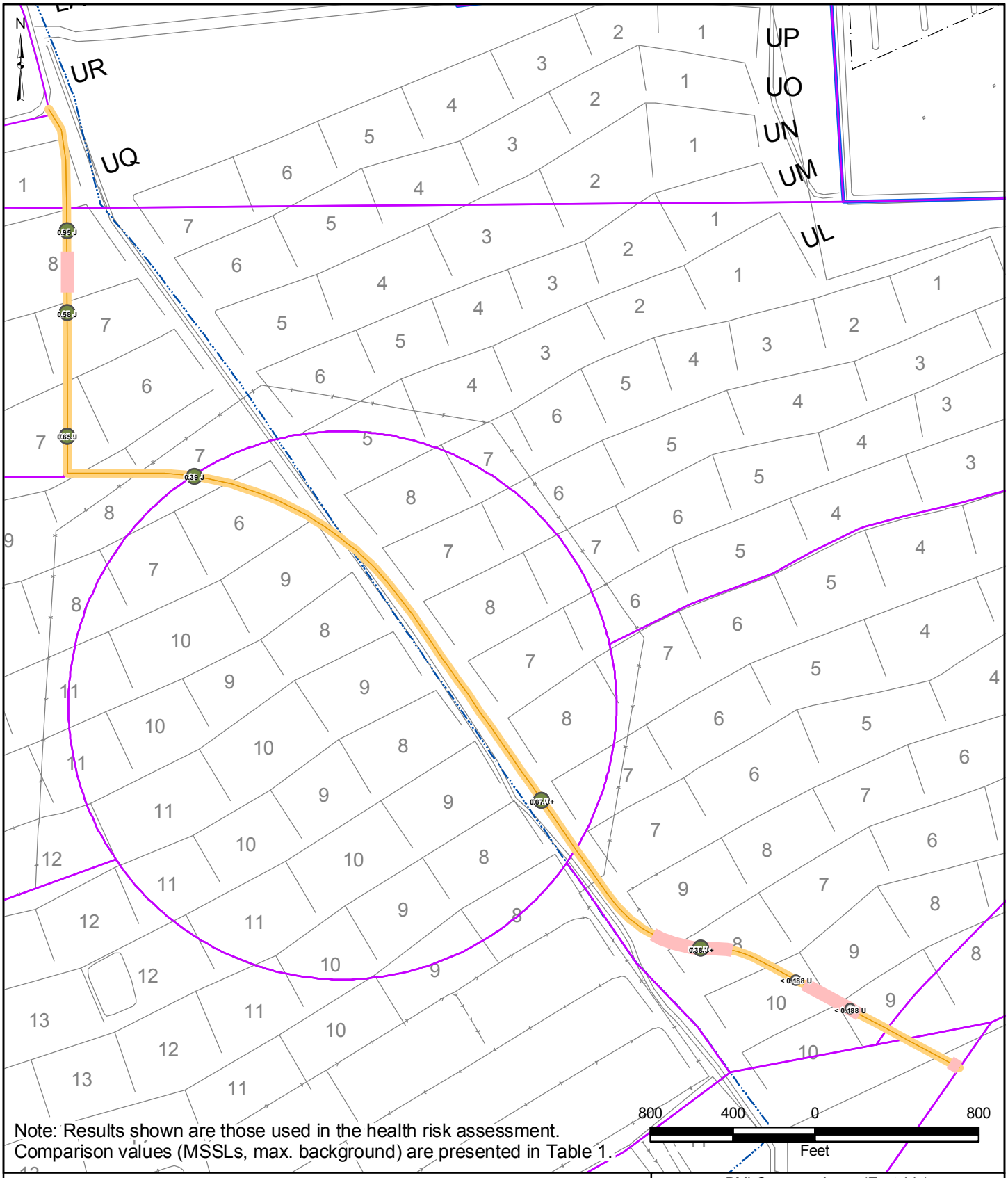
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-17

MOLYBDENUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

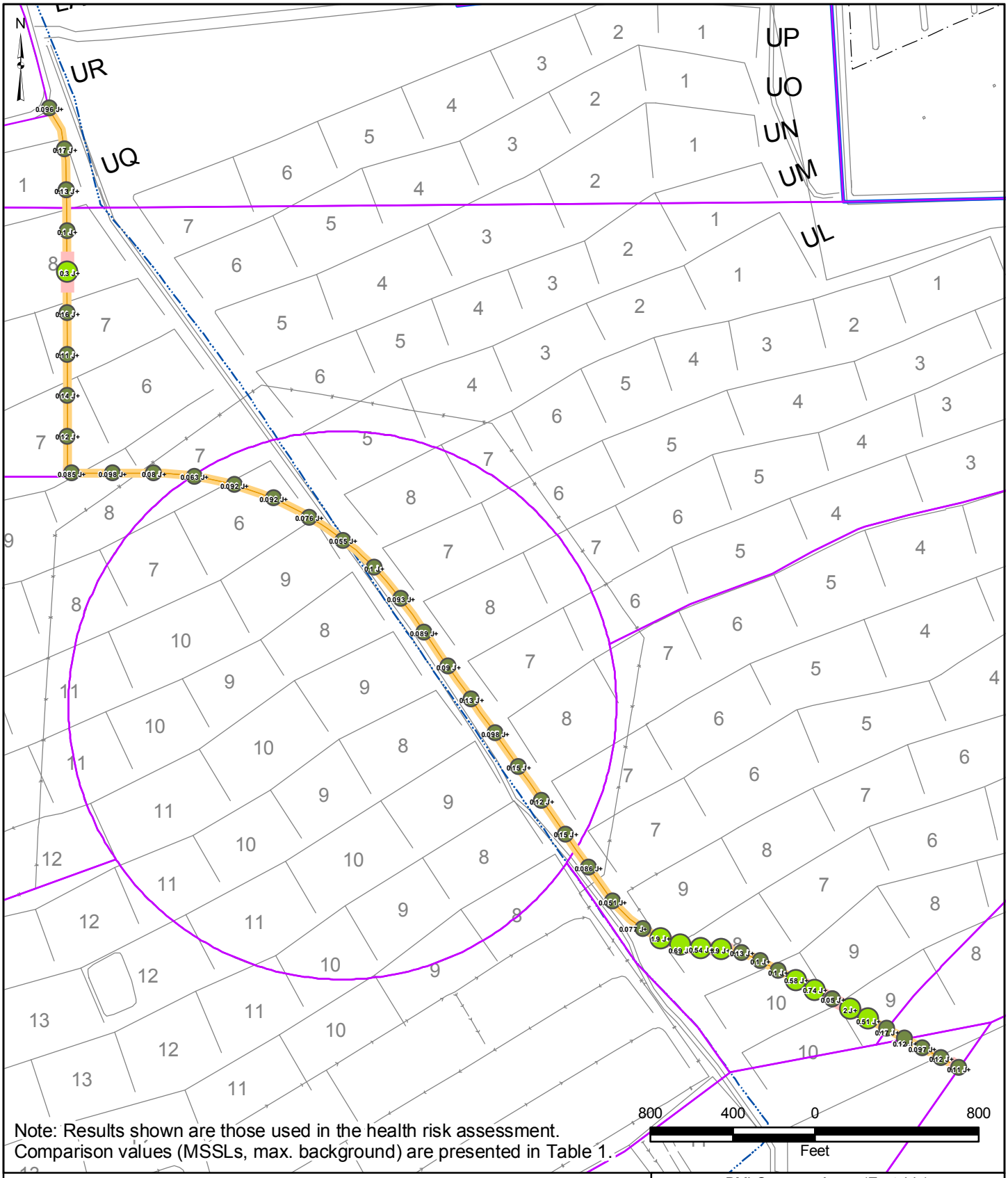
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-18

MOLYBDENUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

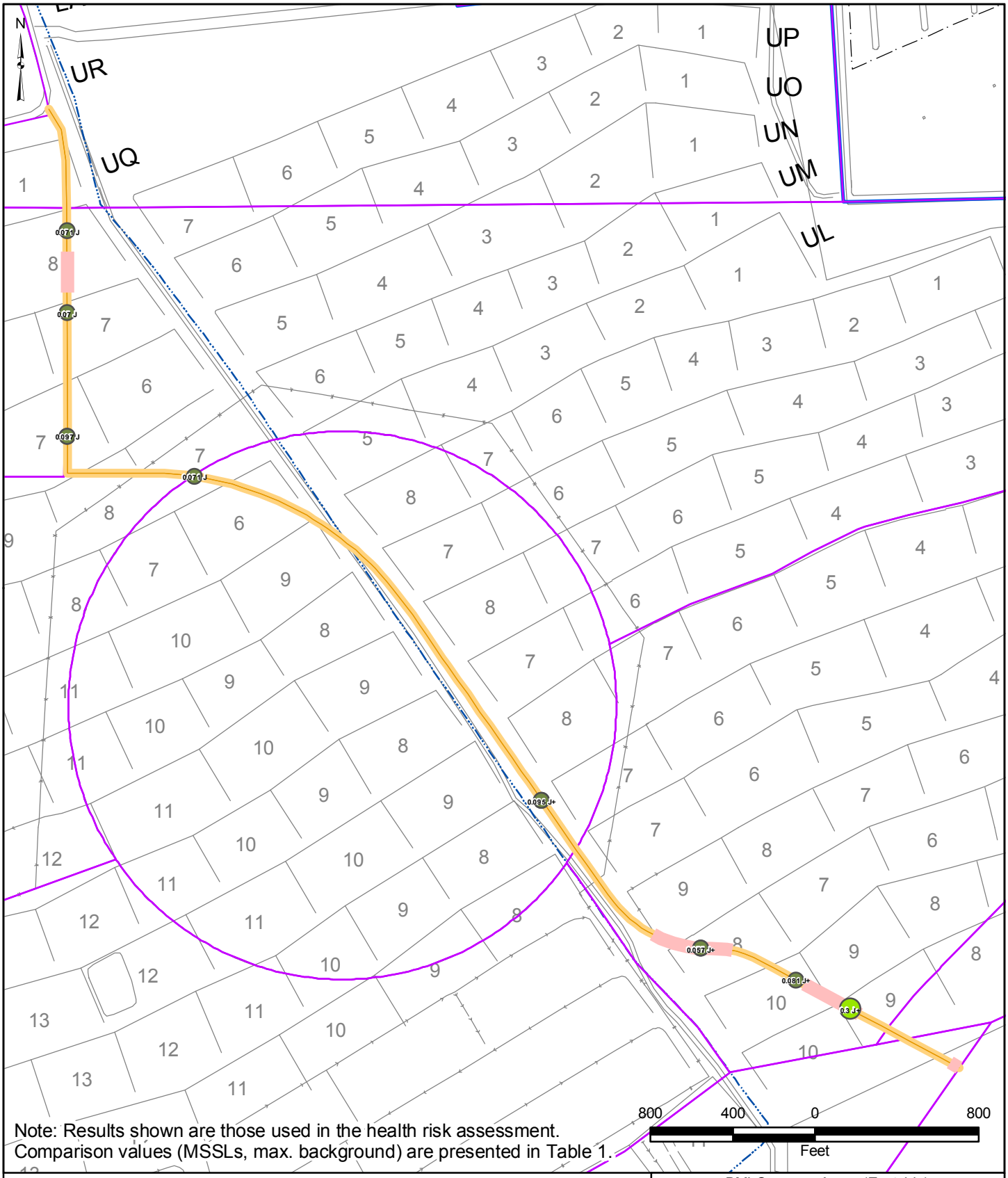
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-19

SILVER
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

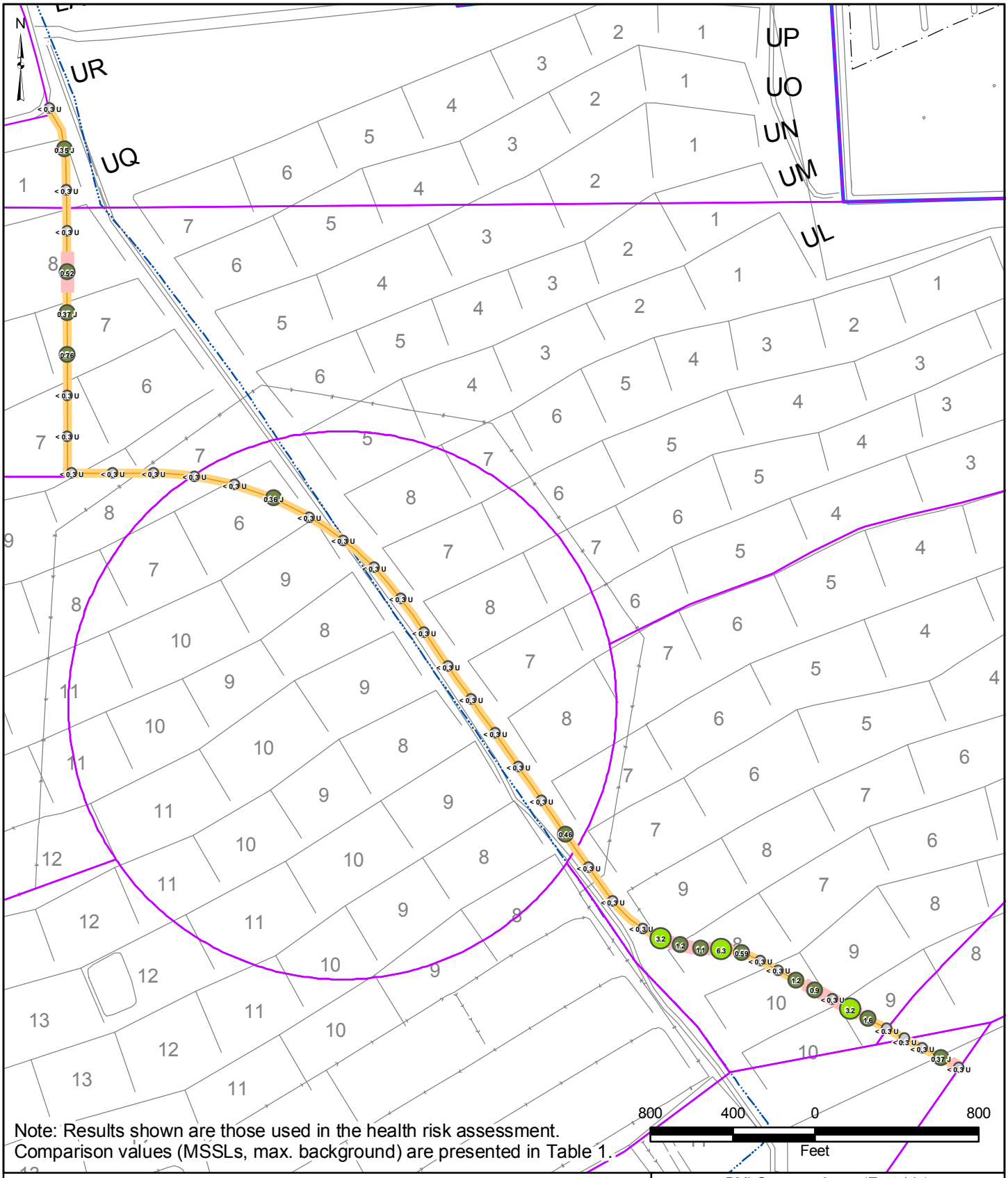
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-20

SILVER
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

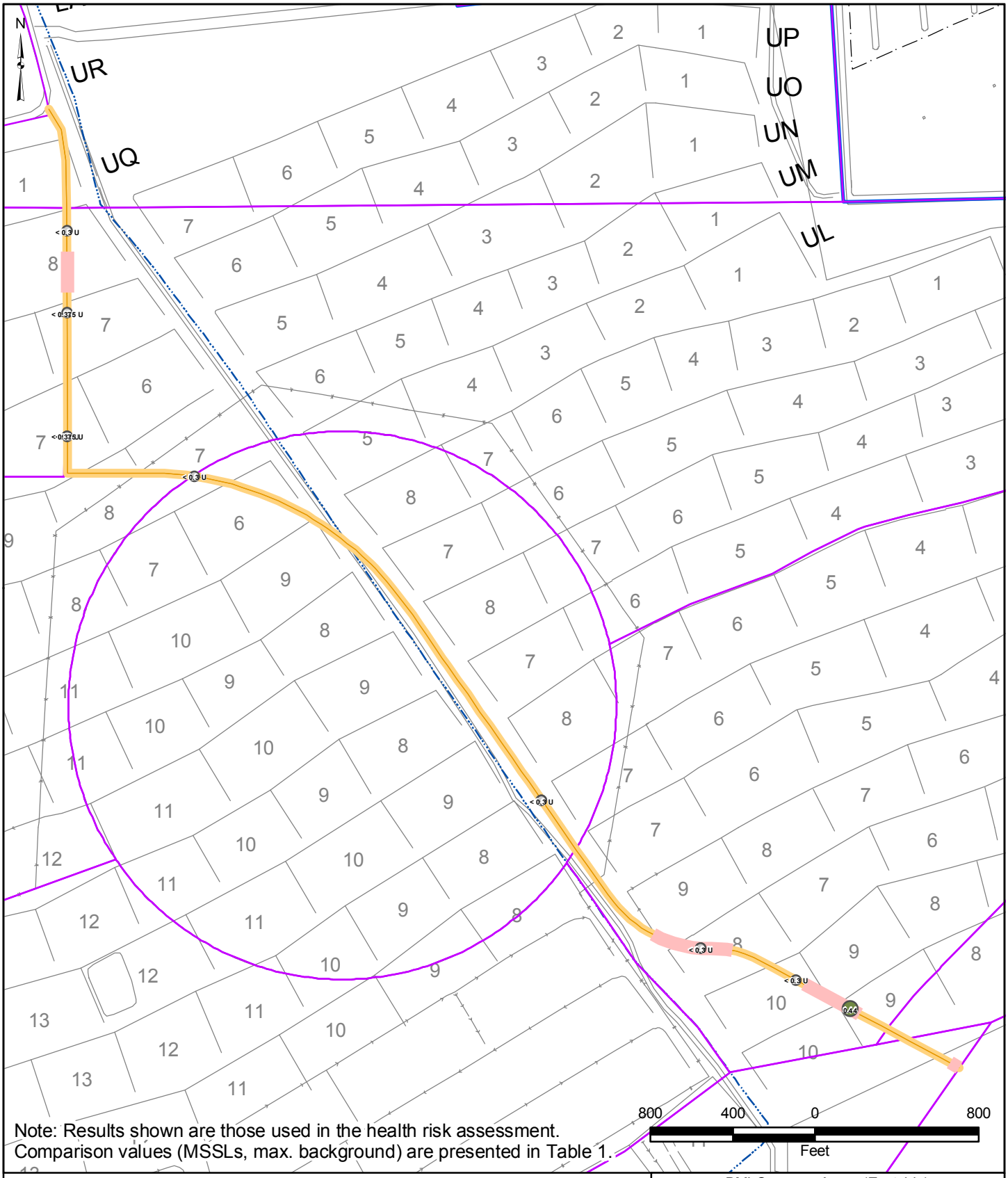
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-21

THALLIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

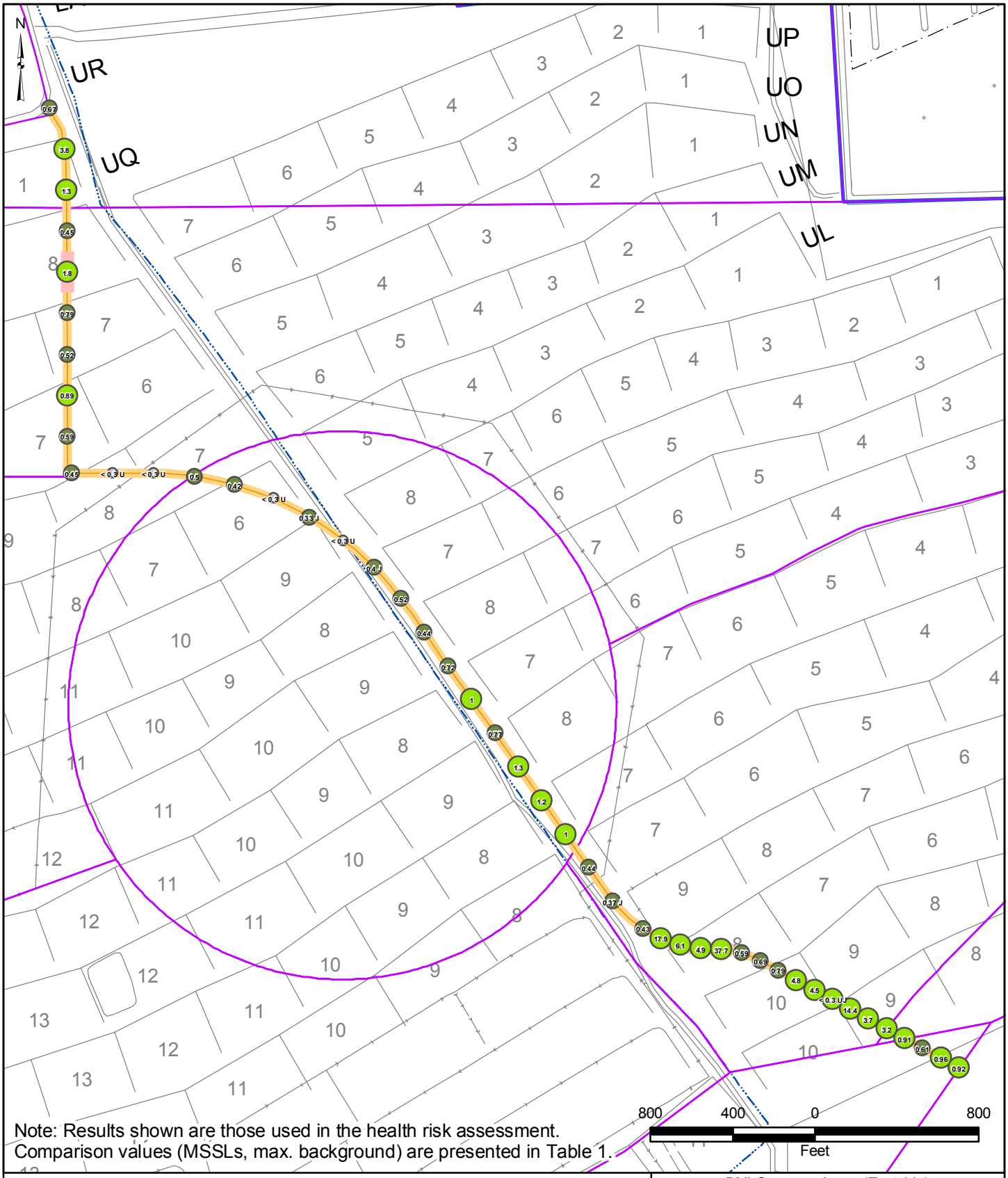
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-22

THALLIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

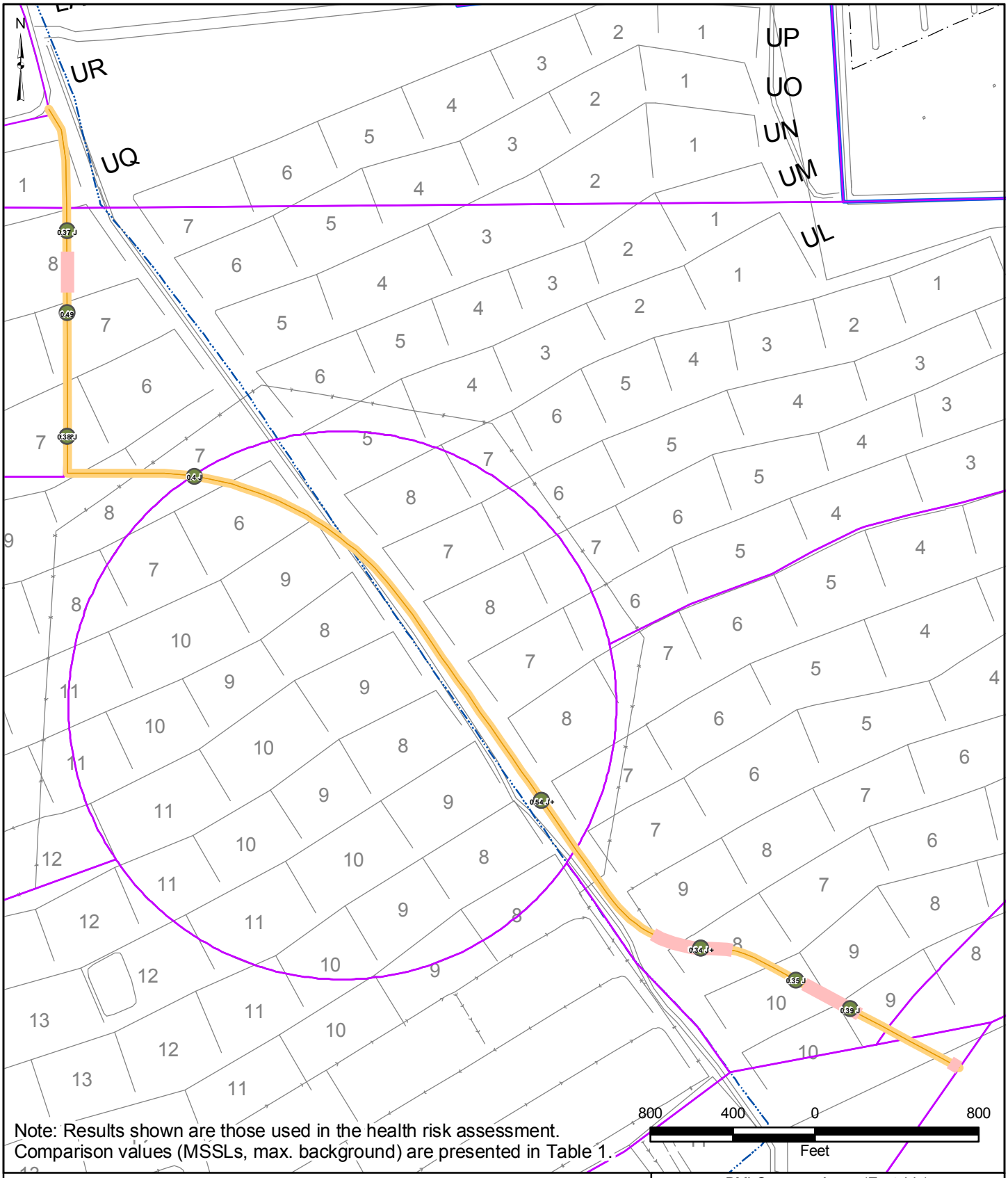
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-23

TIN
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

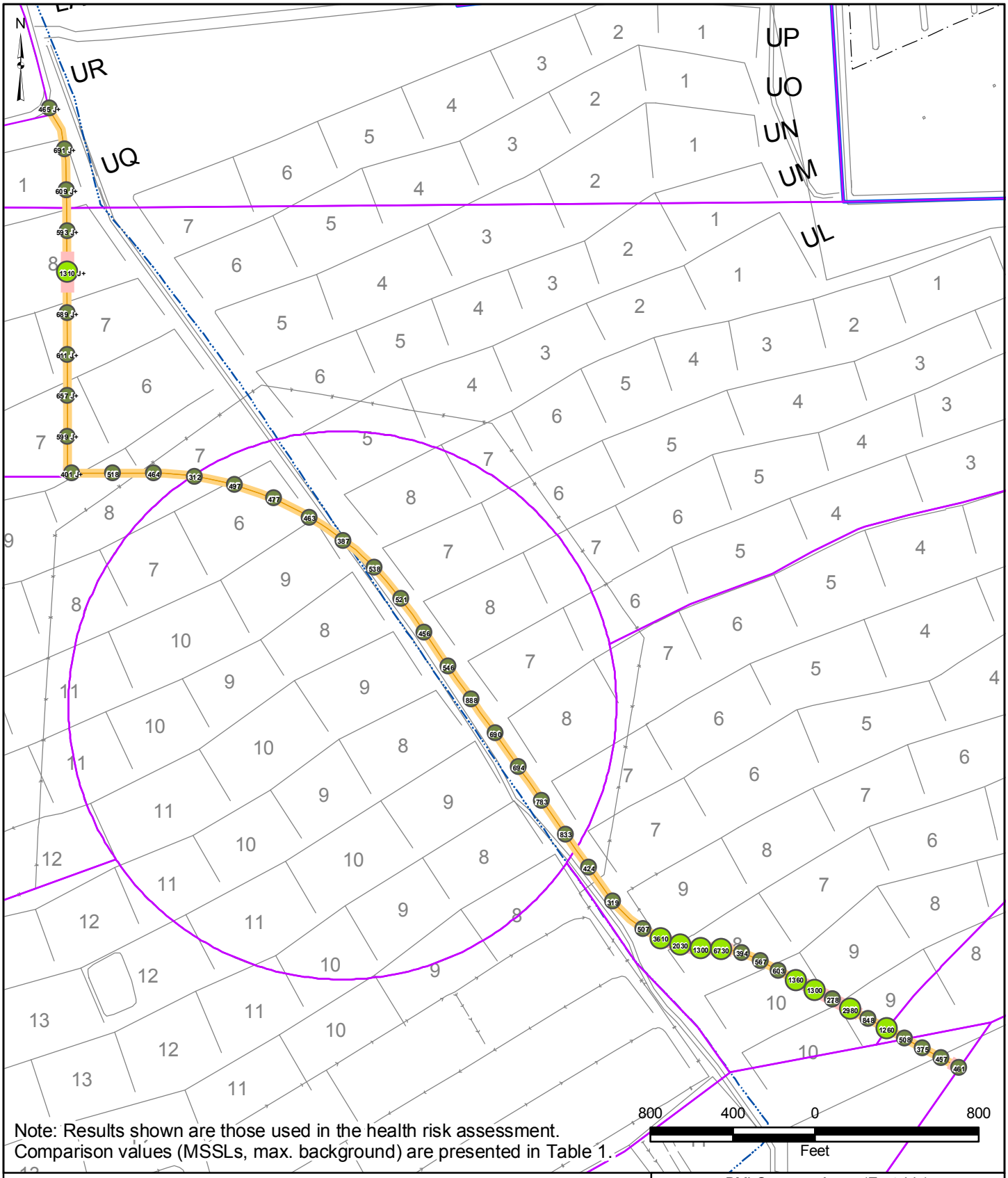
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-24

TIN
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

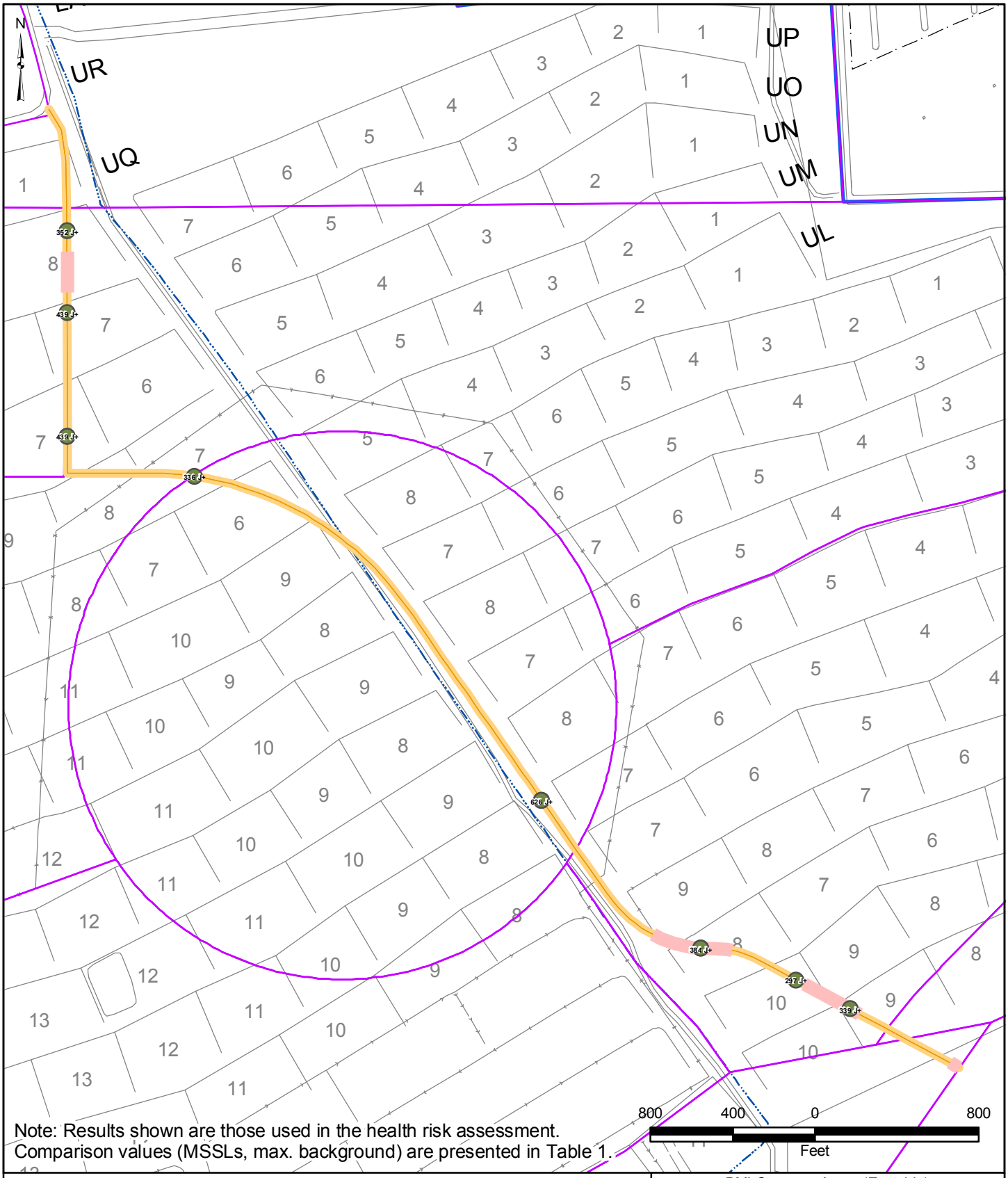
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-25

TITANIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

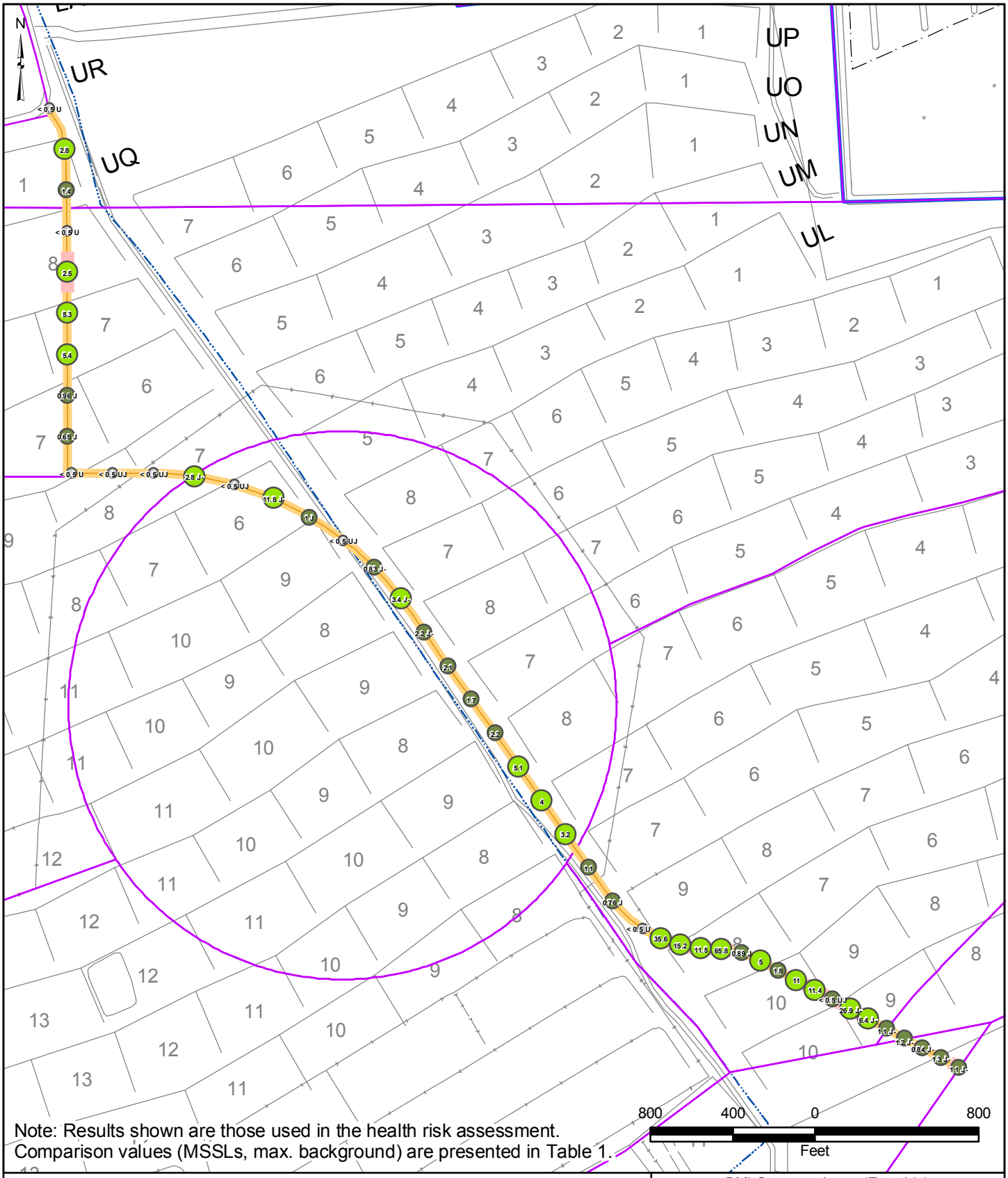
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-26

TITANIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

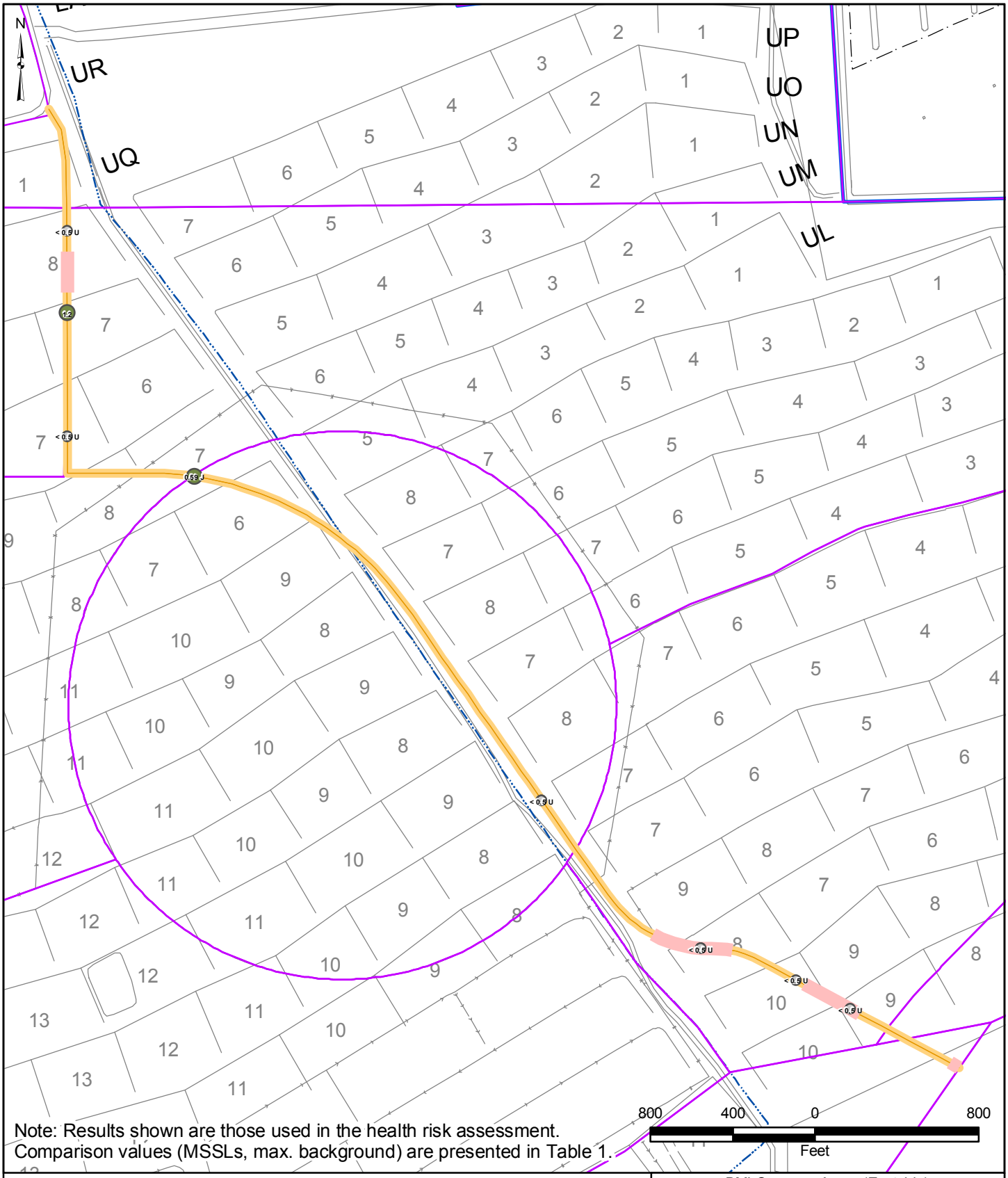
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-27

TUNGSTEN
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

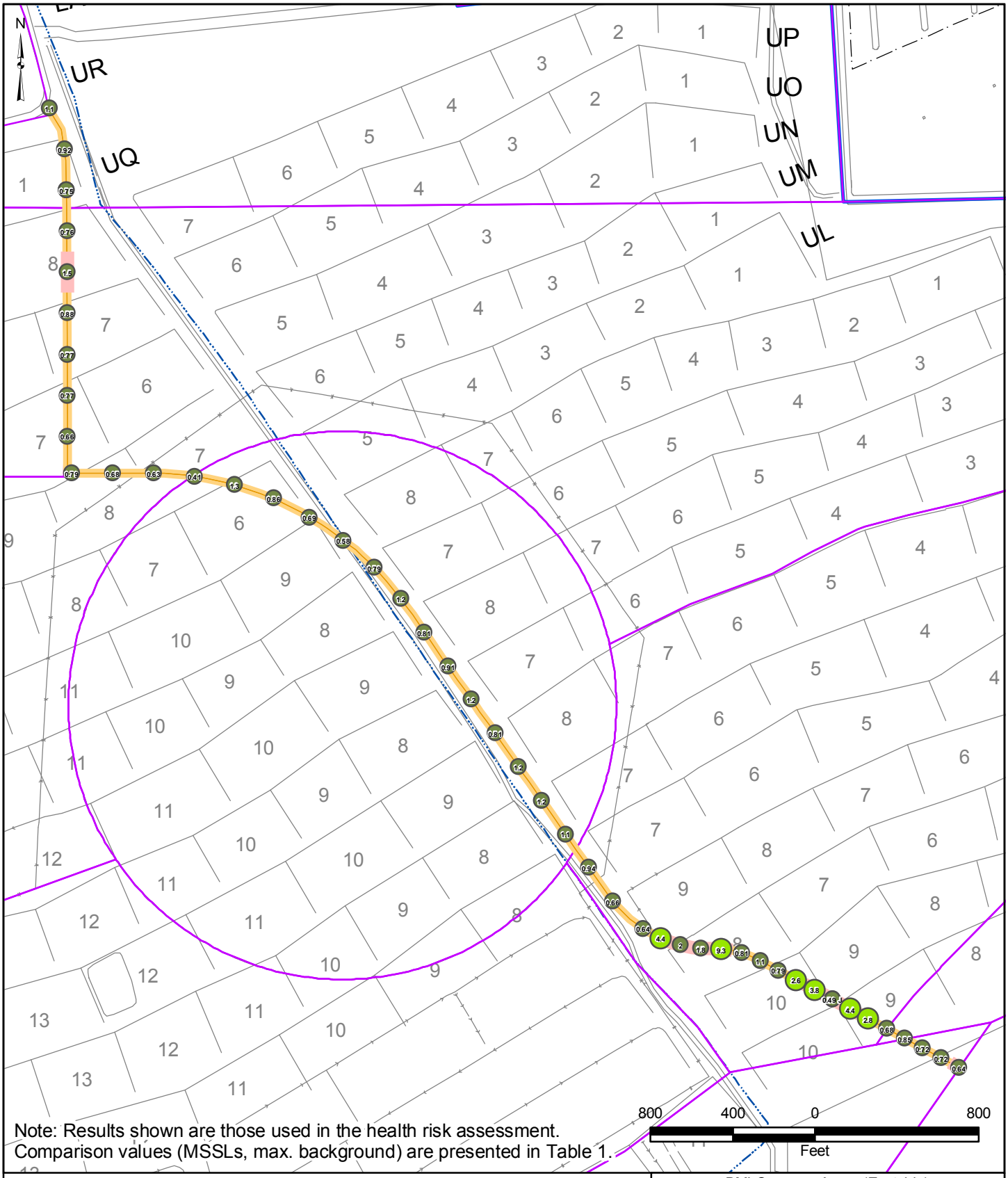
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-28

TUNGSTEN
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

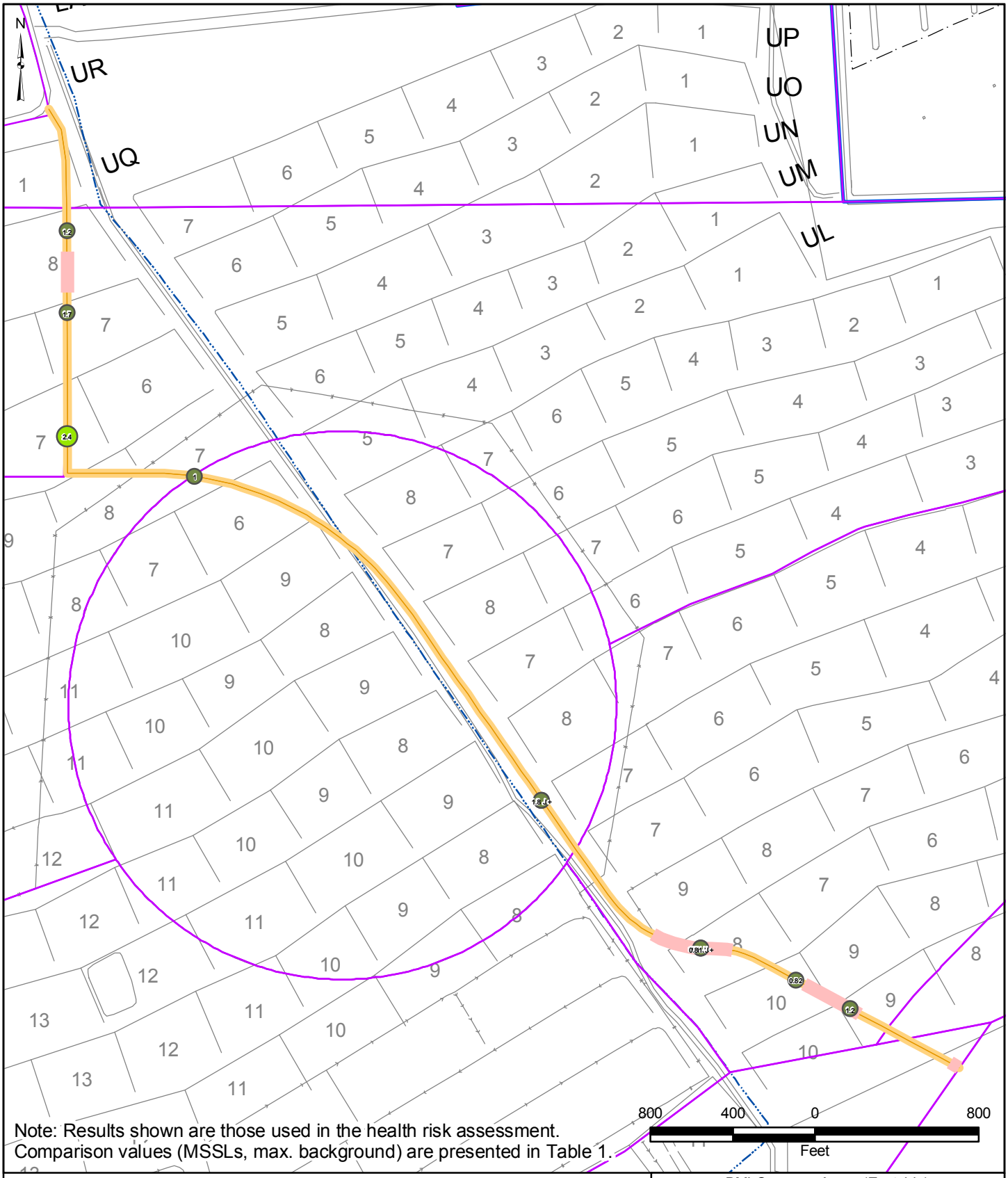
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-29

URANIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

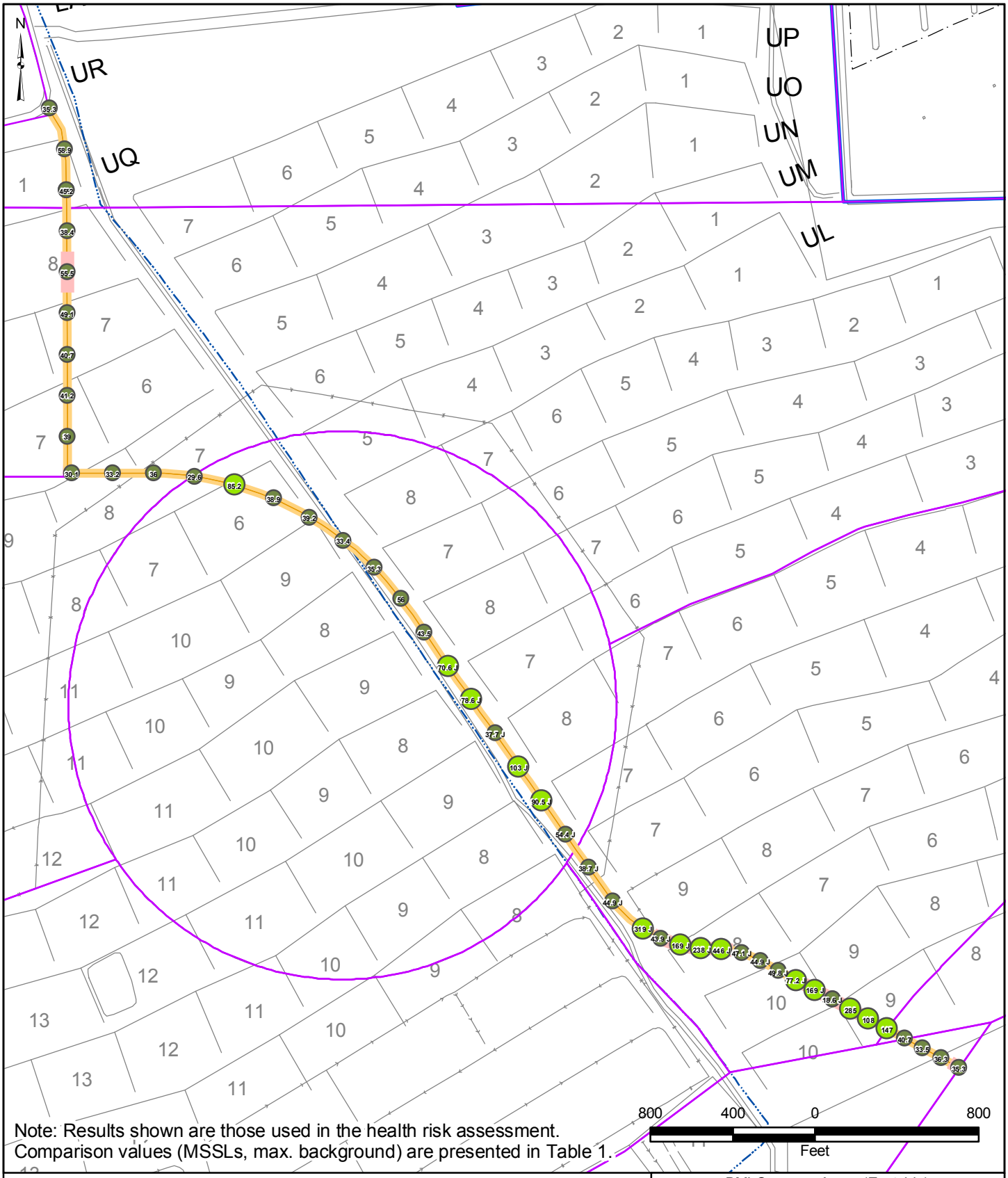
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-30

URANIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

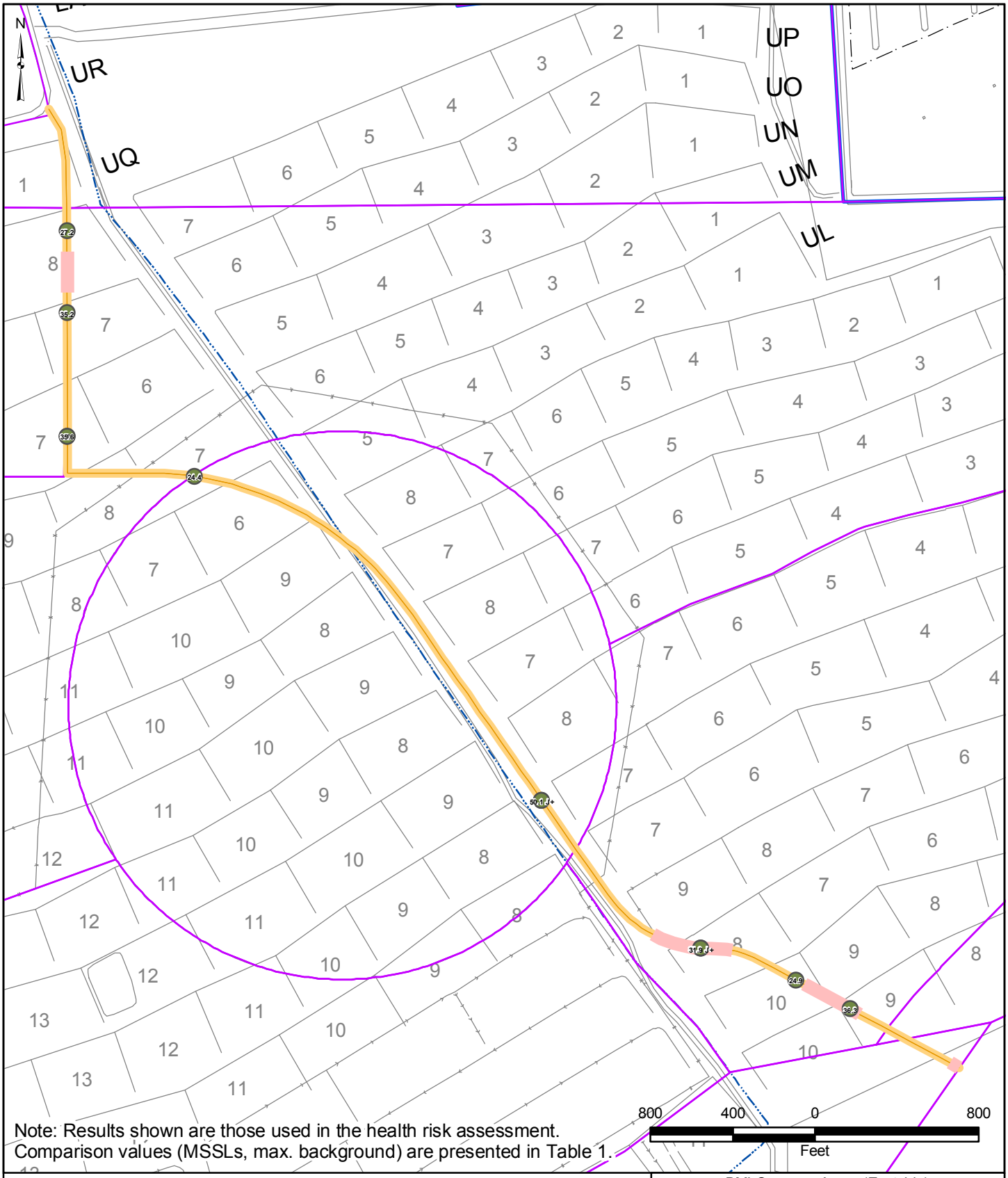
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-31

VANADIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

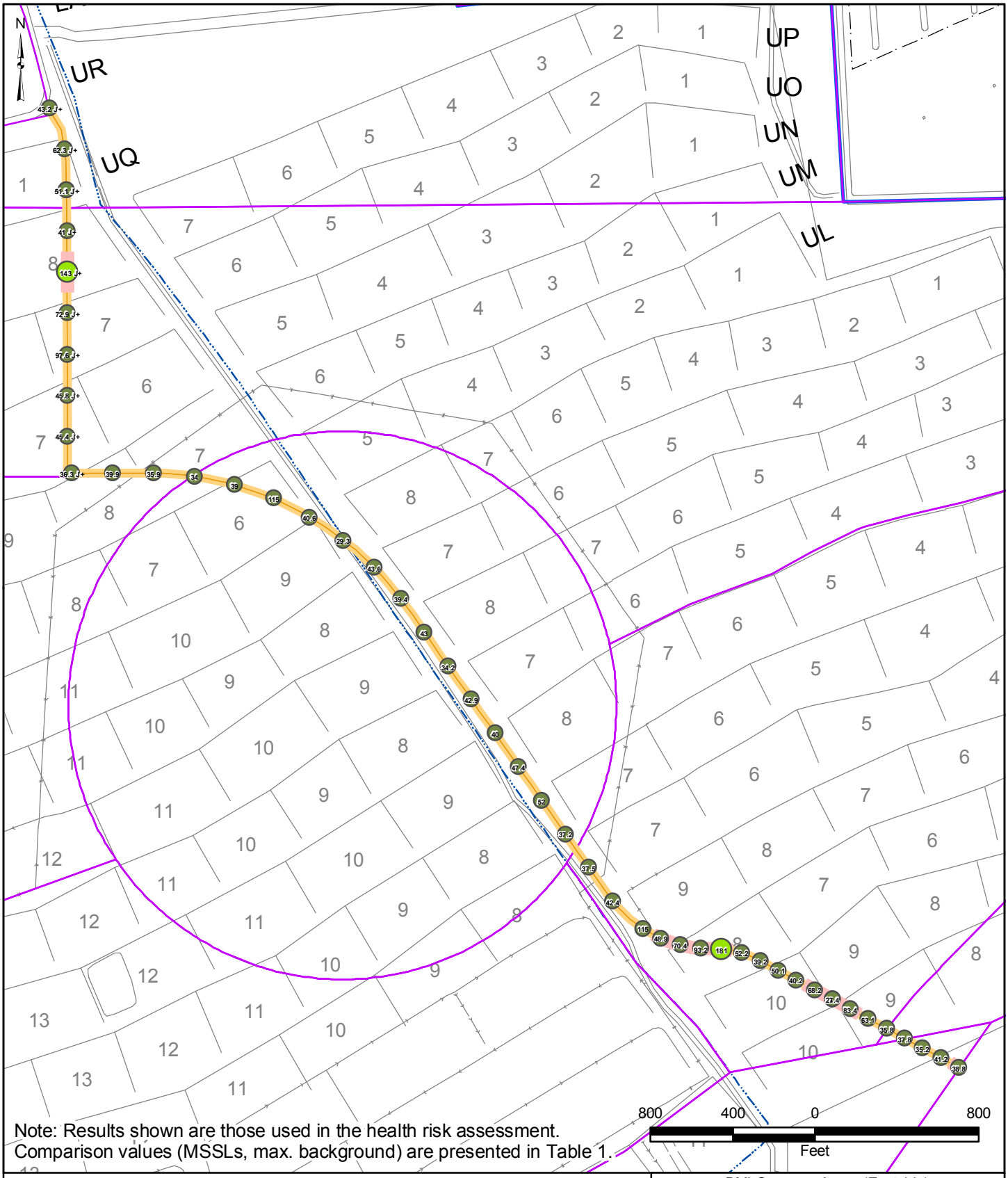
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-32

VANADIUM
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

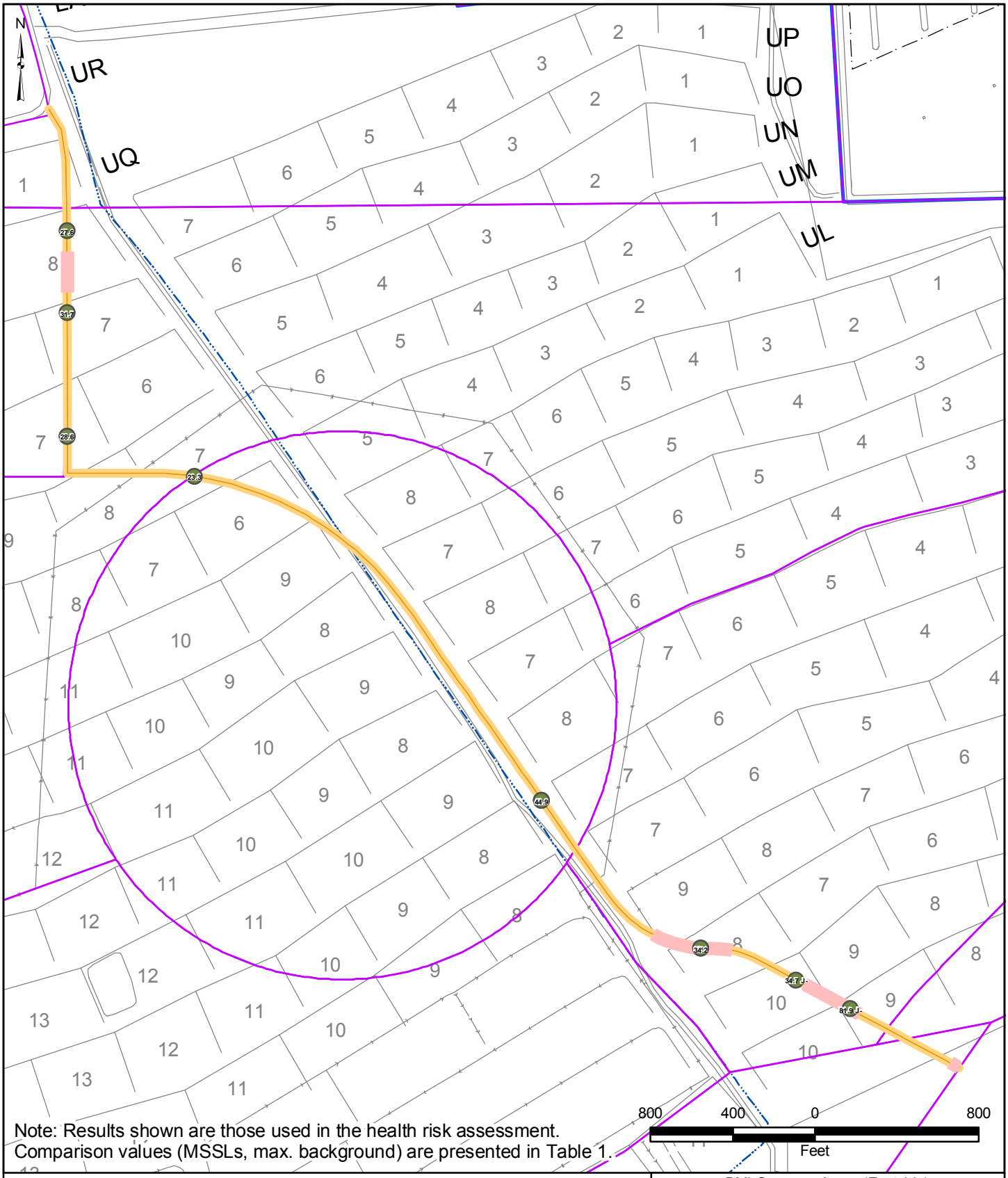
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-33

ZINC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

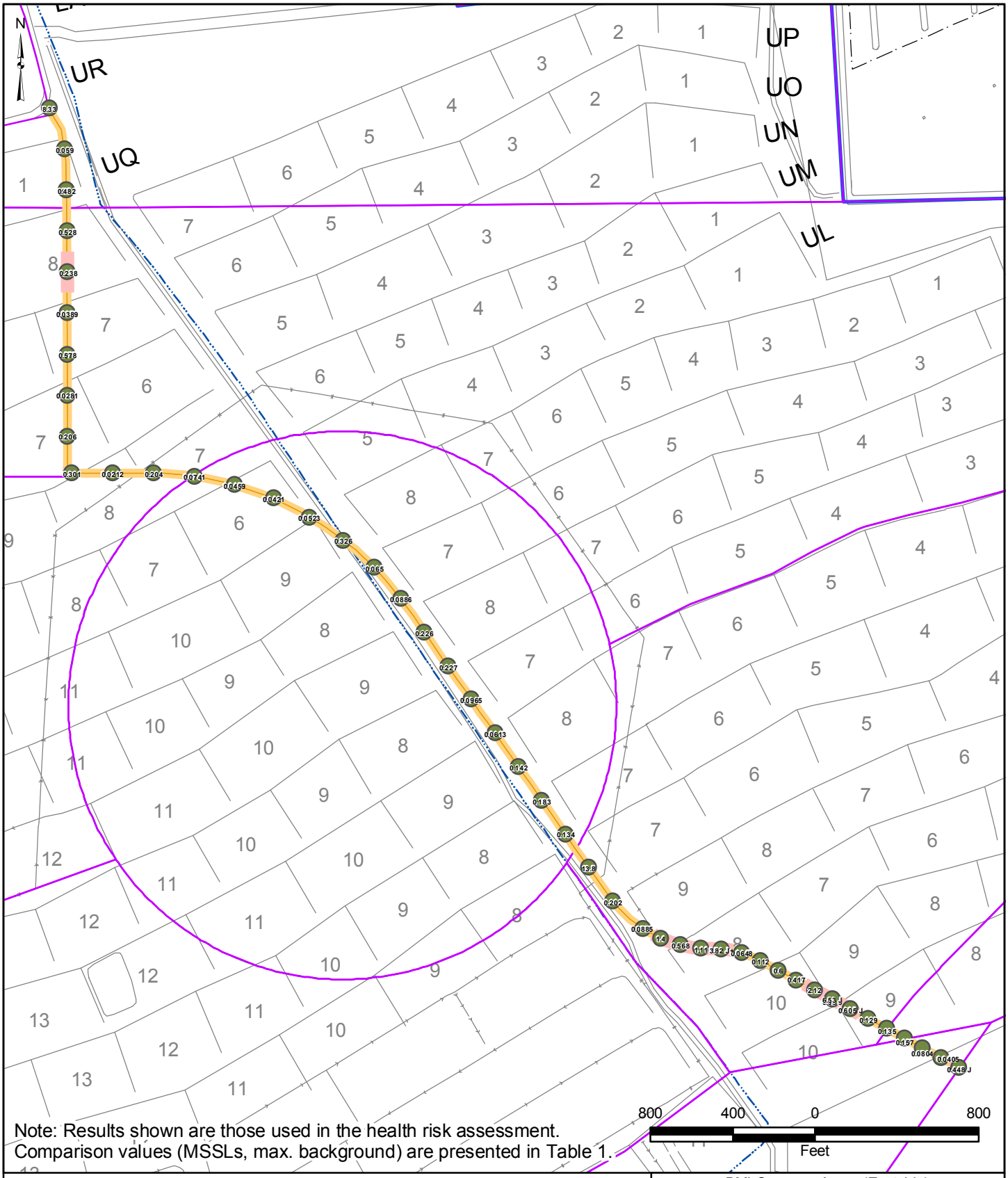
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-34

ZINC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

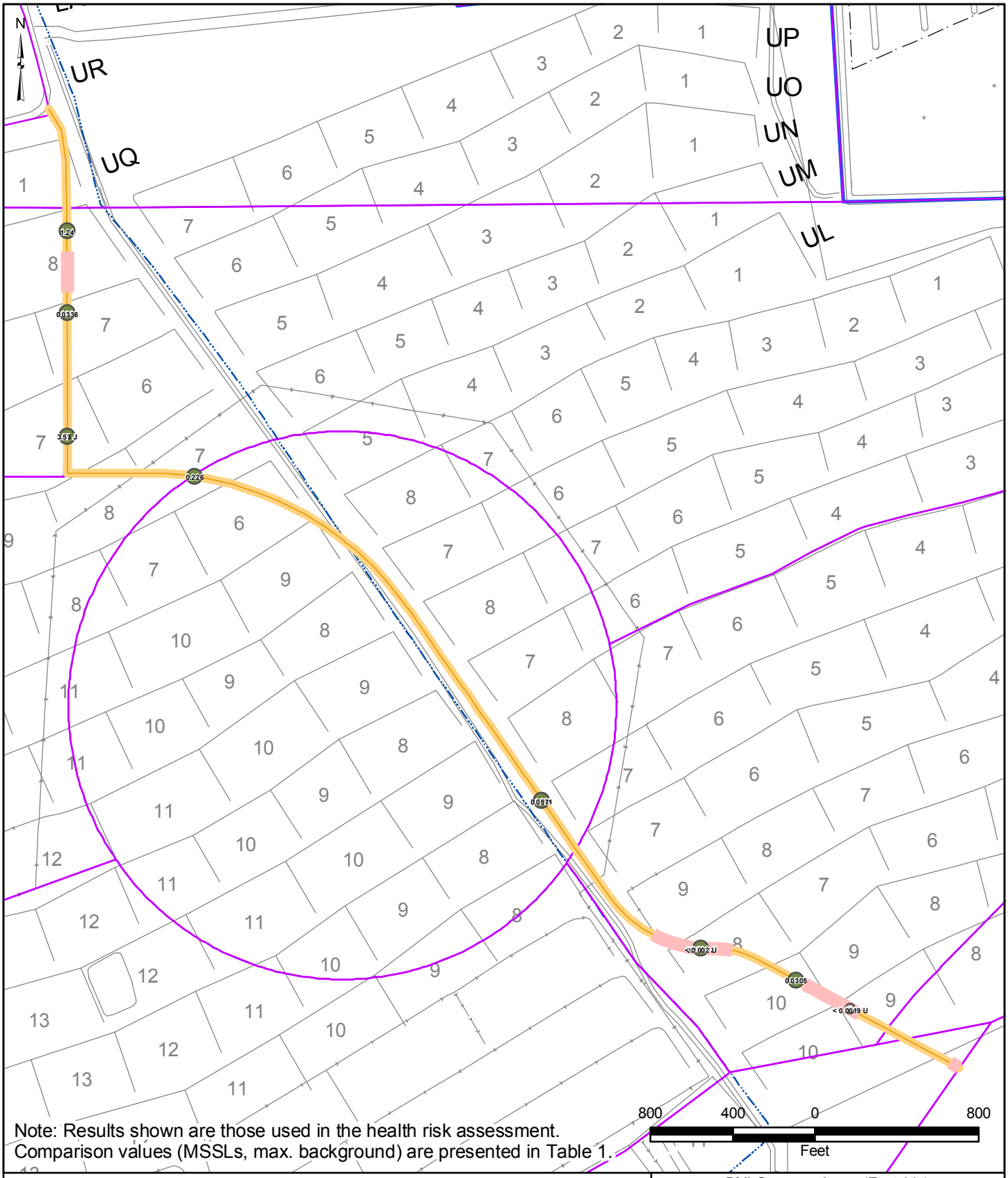
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-35

PERCHLORATE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

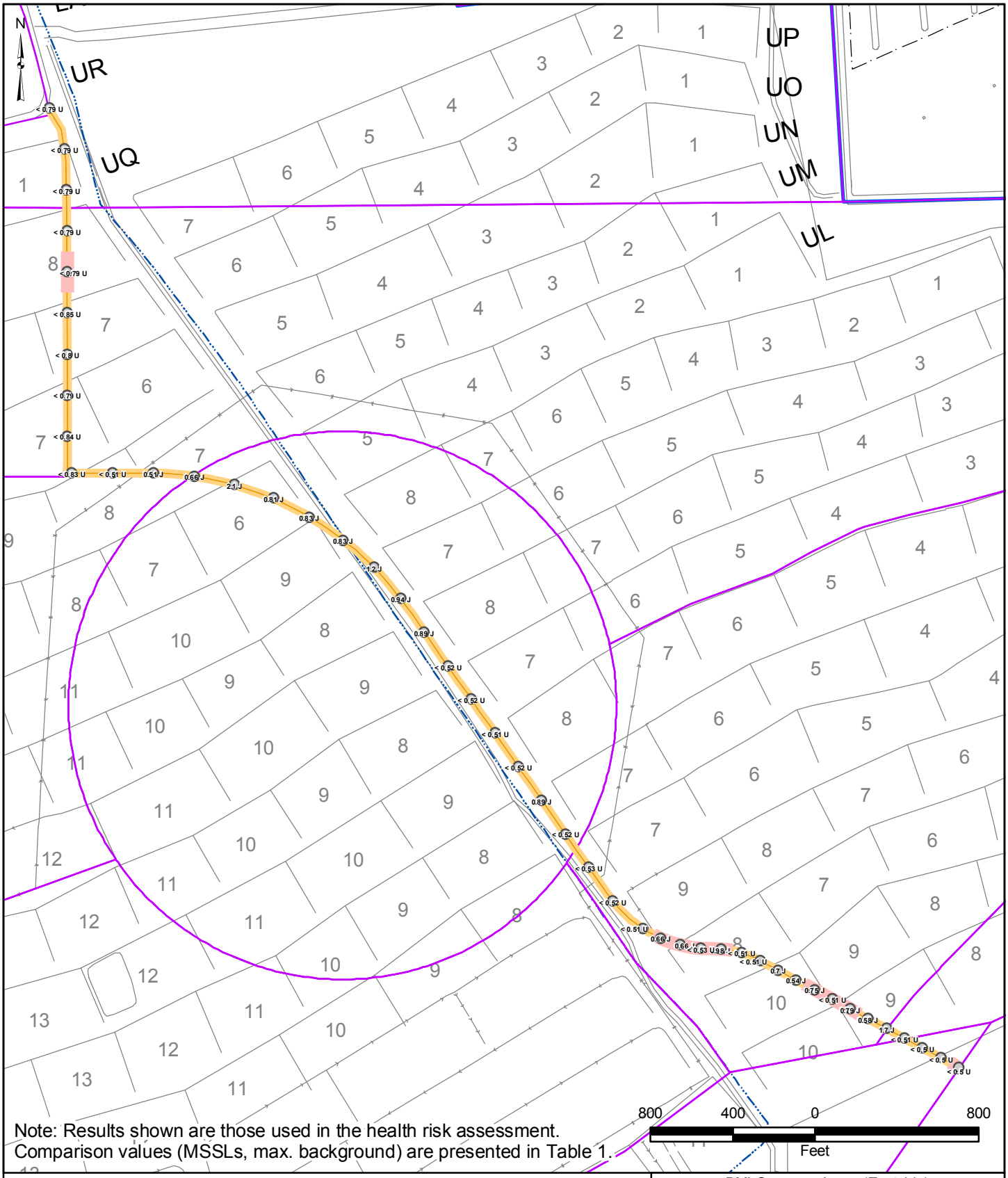
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-36

PERCHLORATE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

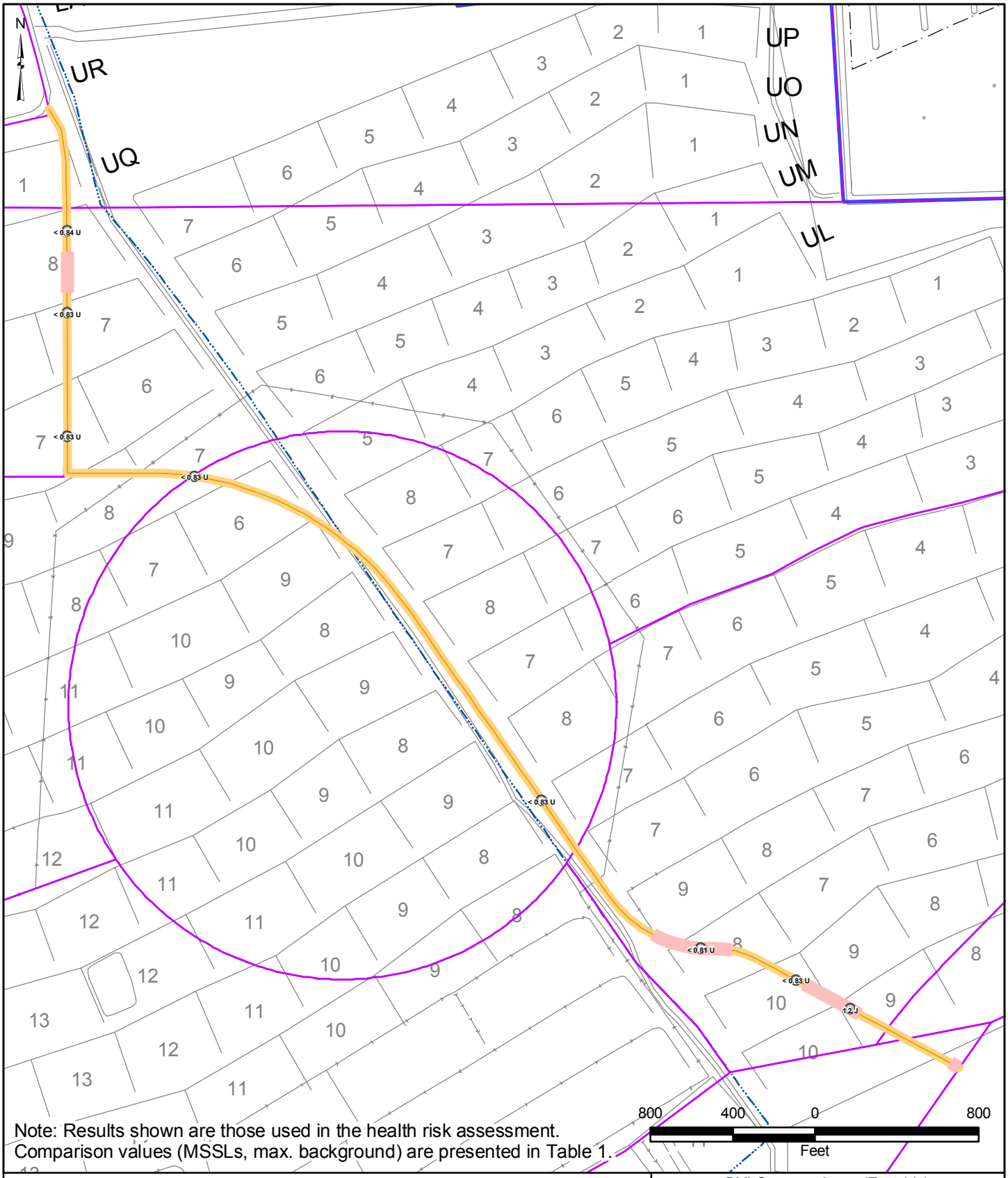
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-37

AMMONIA
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

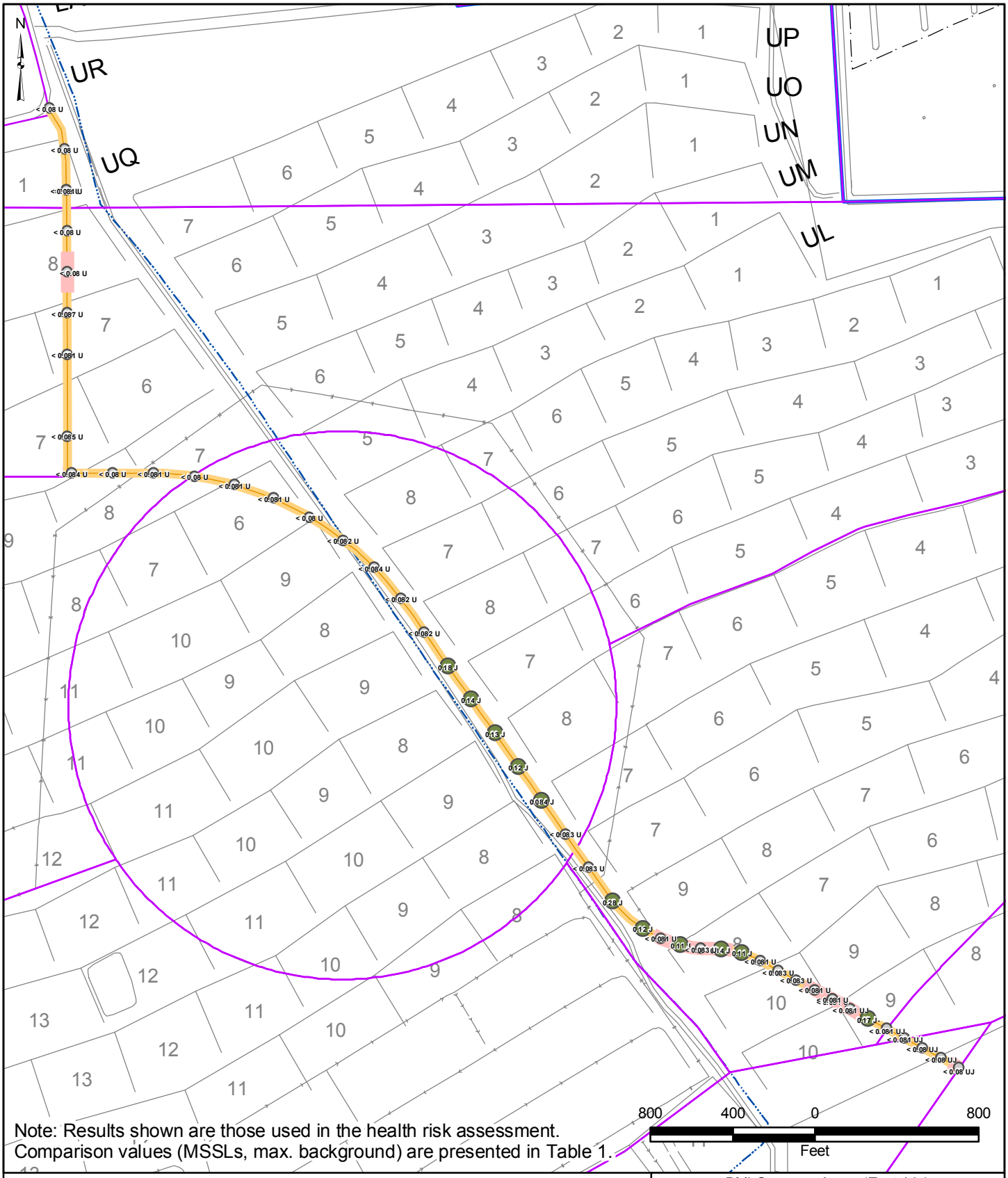
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-38

AMMONIA
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

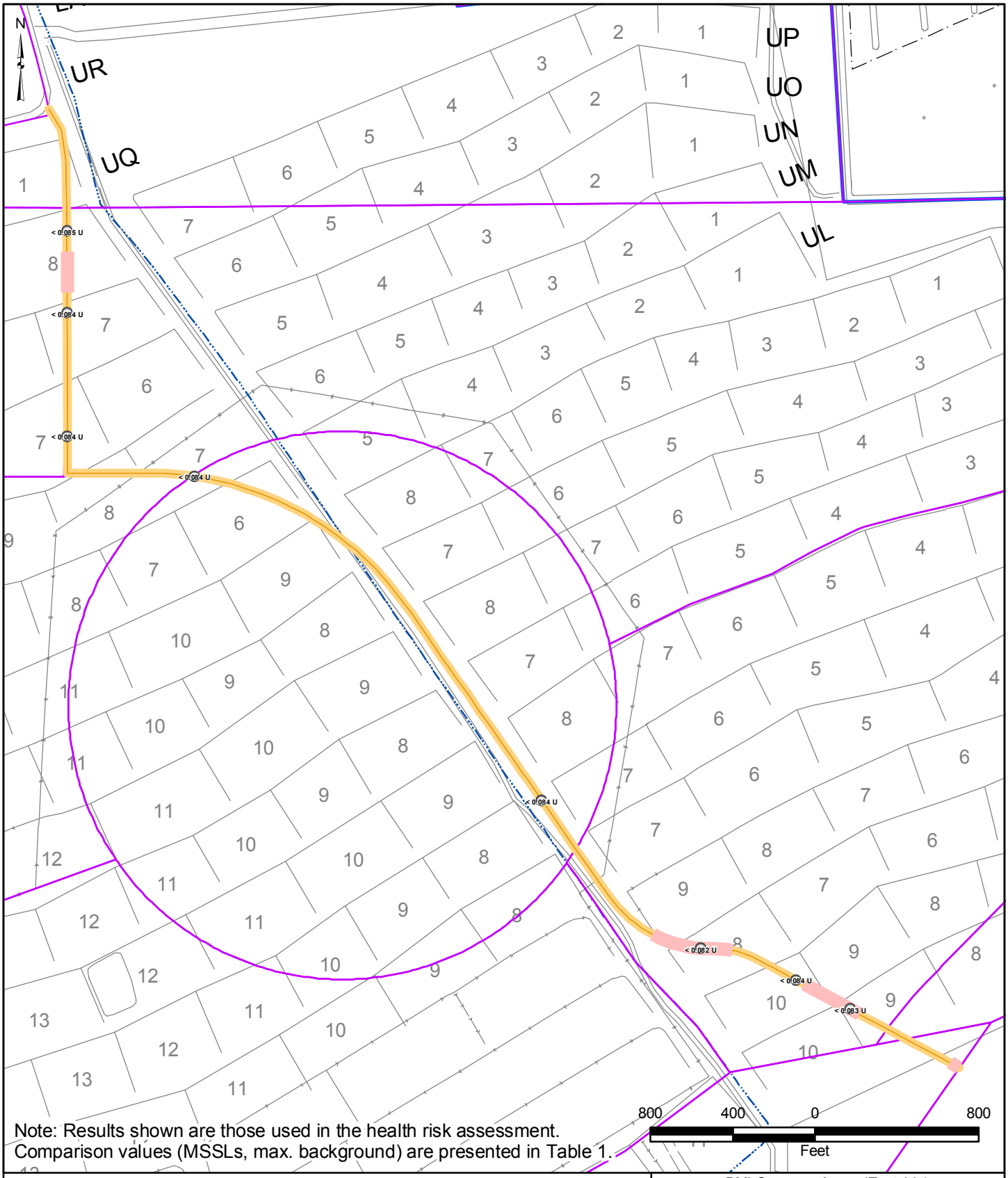
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-39

CYANIDE (TOTAL) RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

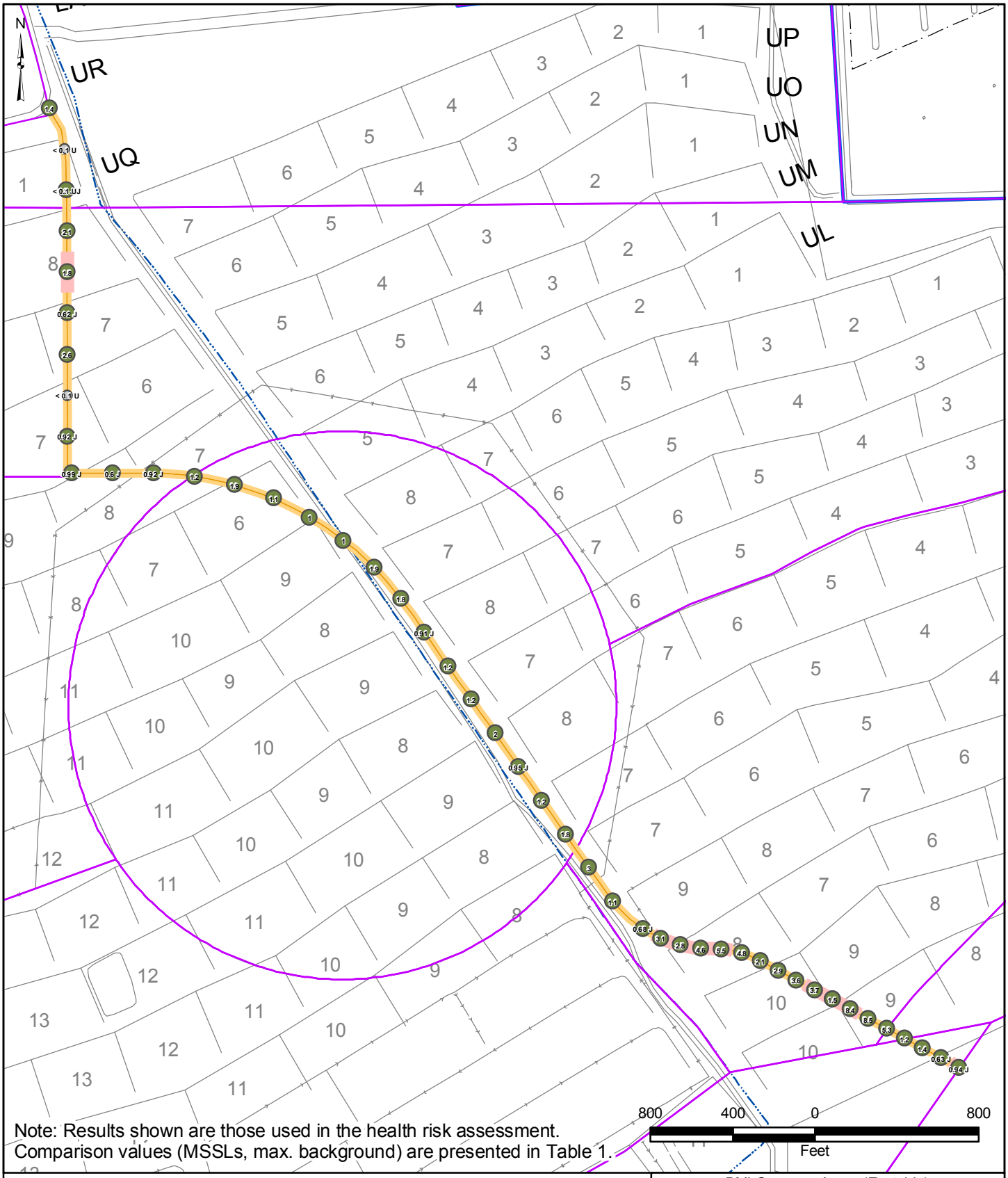
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-40

CYANIDE (TOTAL)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

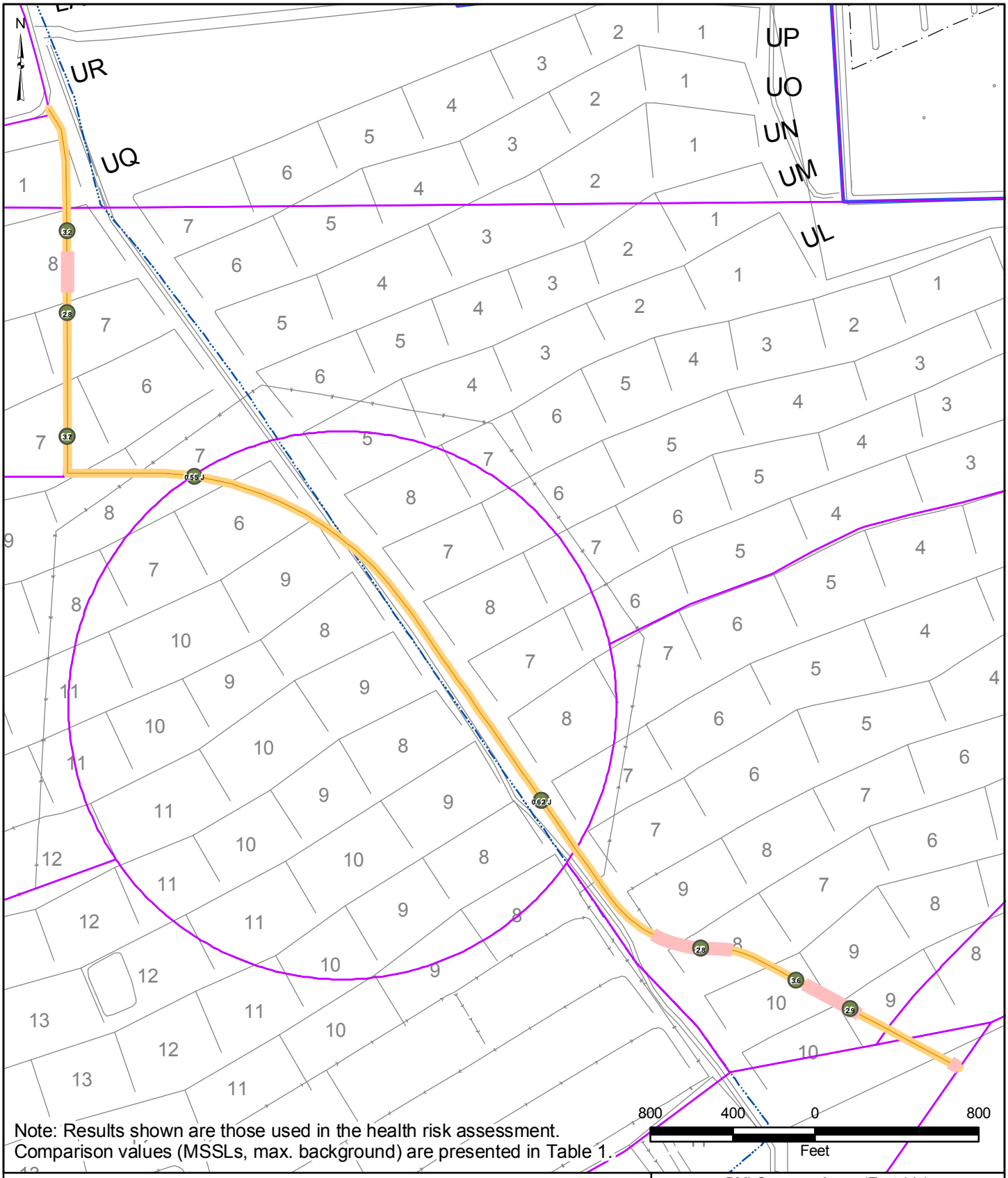
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-41

FLUORIDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

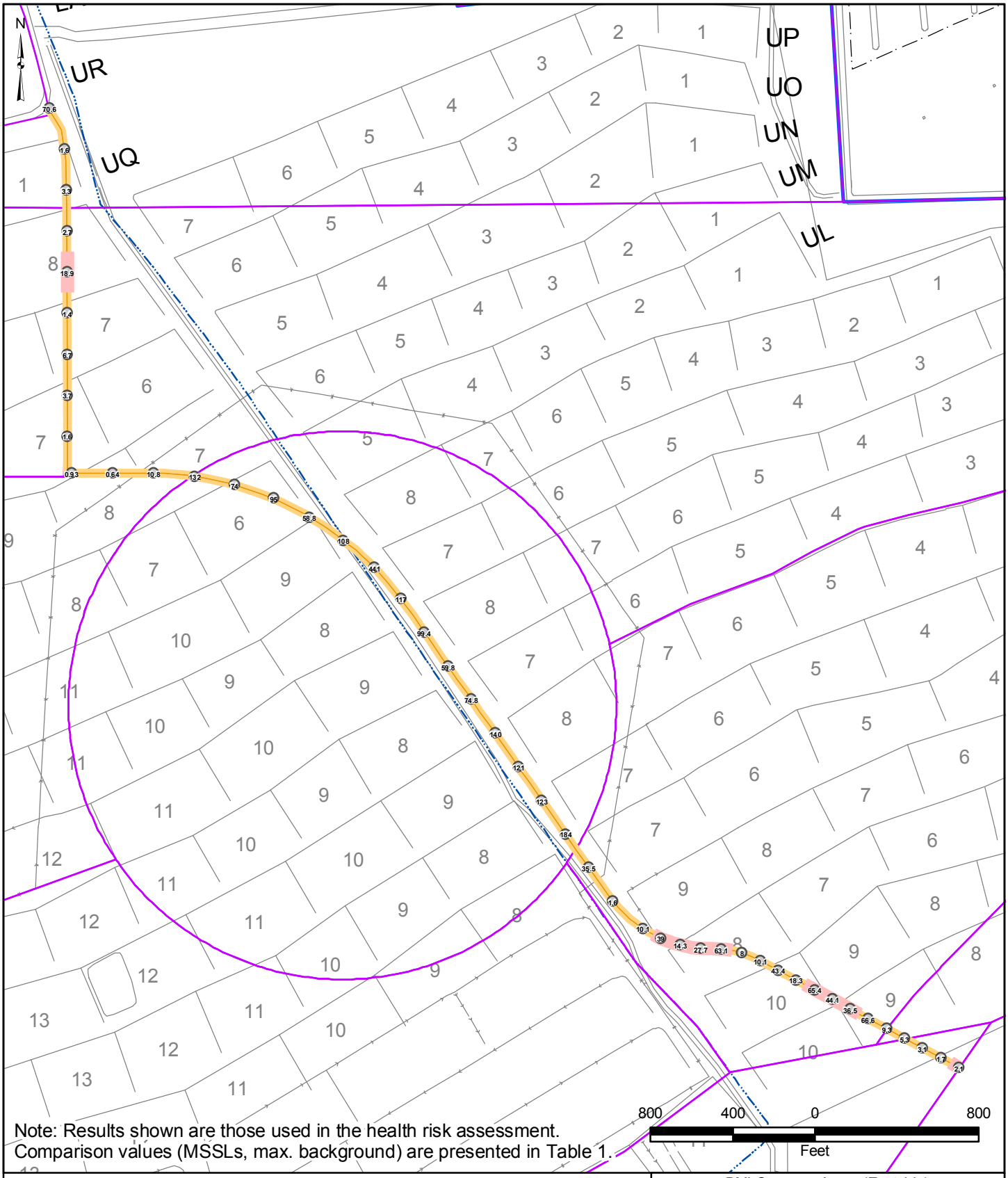
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-42

FLUORIDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

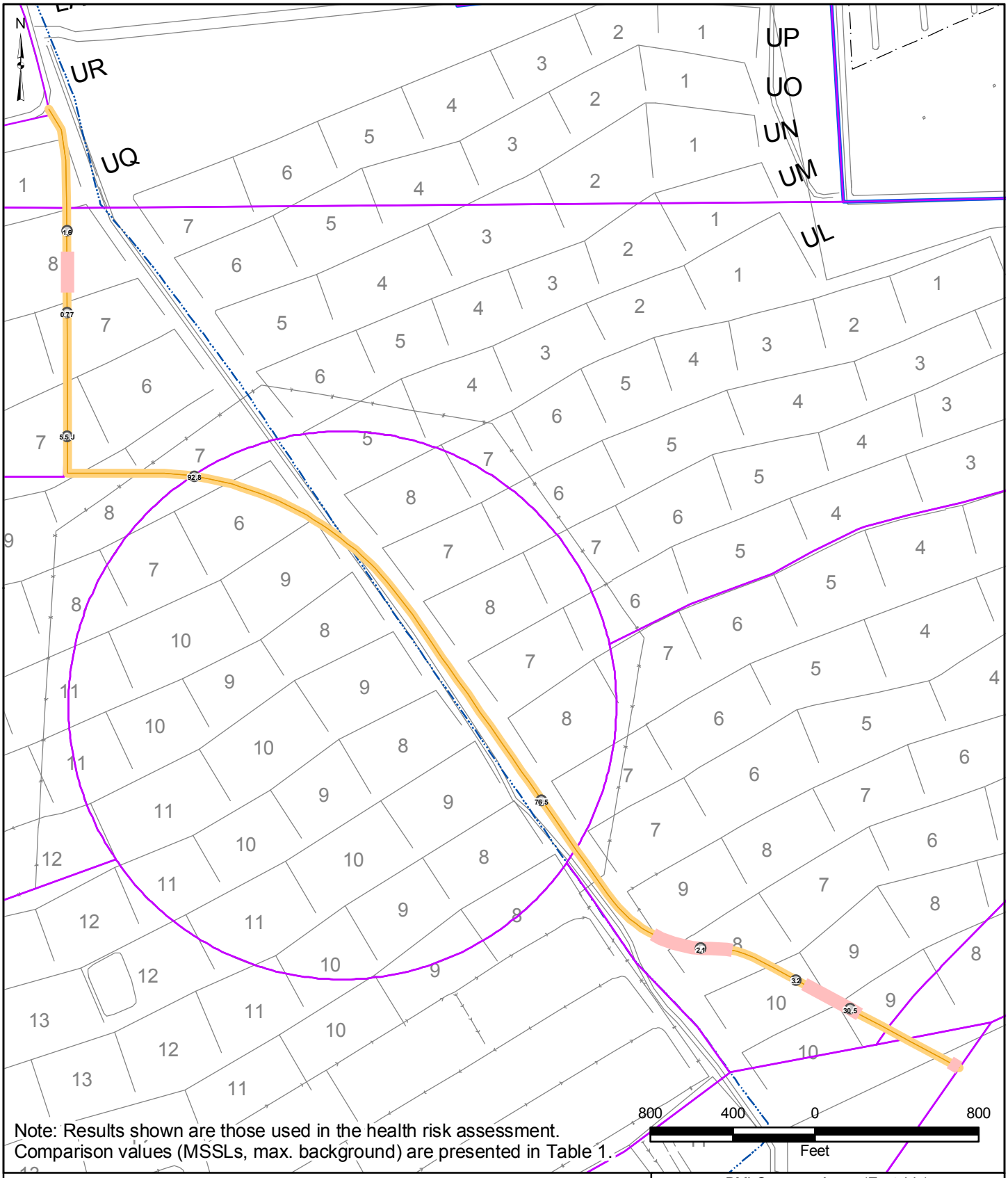
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-43

NITRATE (AS N)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

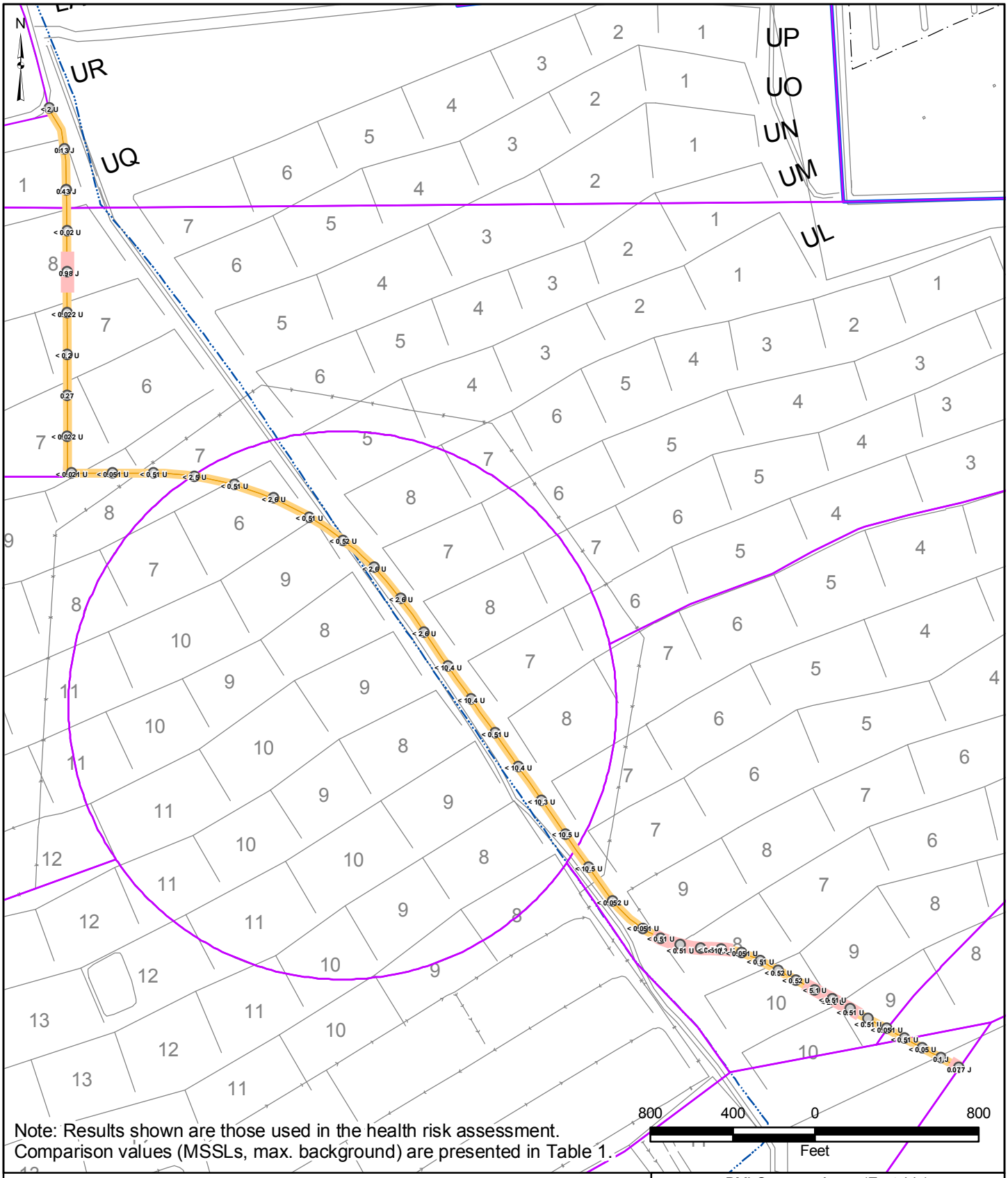
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-44

NITRATE (AS N)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
ERM MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

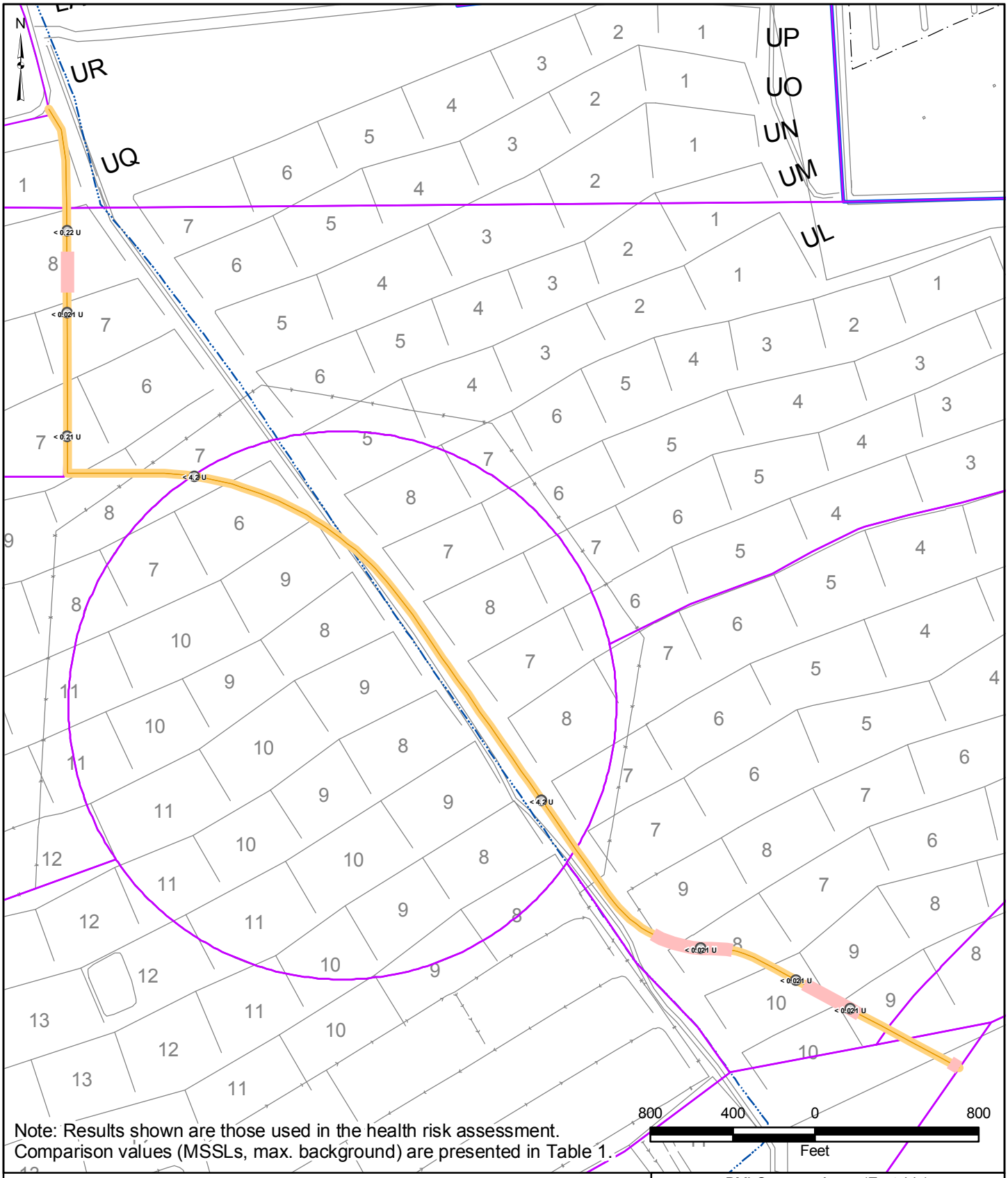
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-45

NITRITE (AS N)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

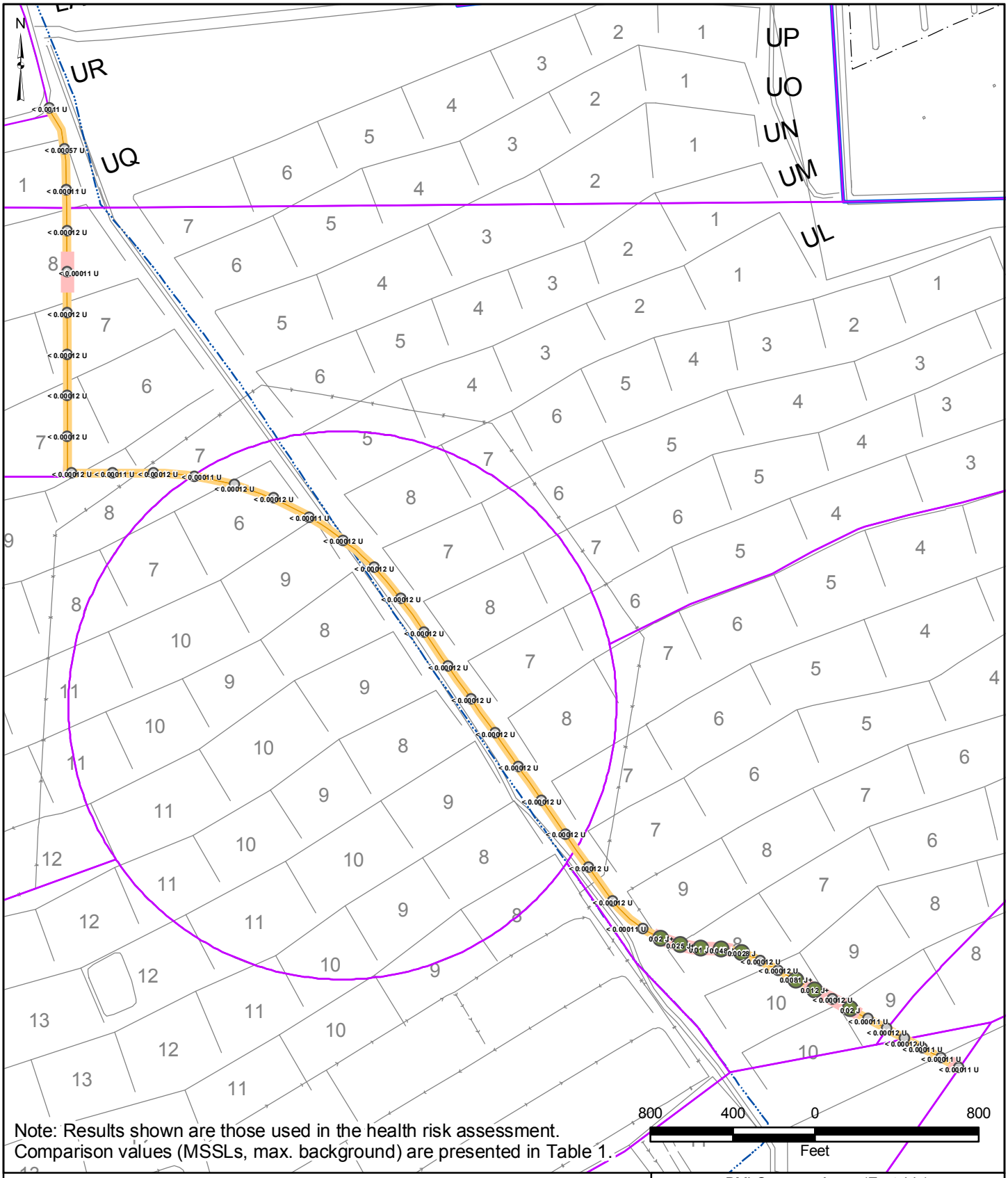
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-46

NITRITE (AS N)
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

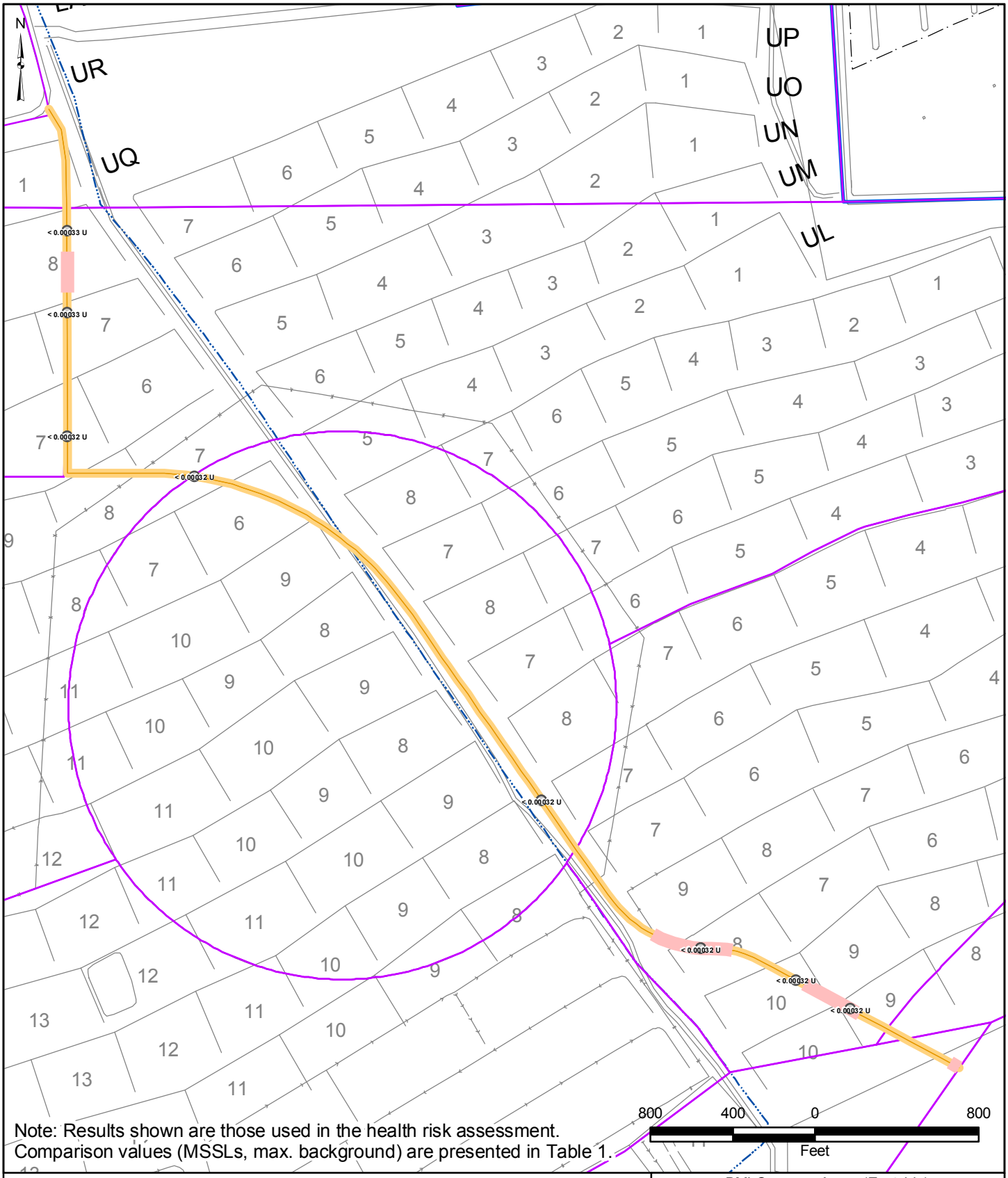
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-47

2,4'-DDD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation Company

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

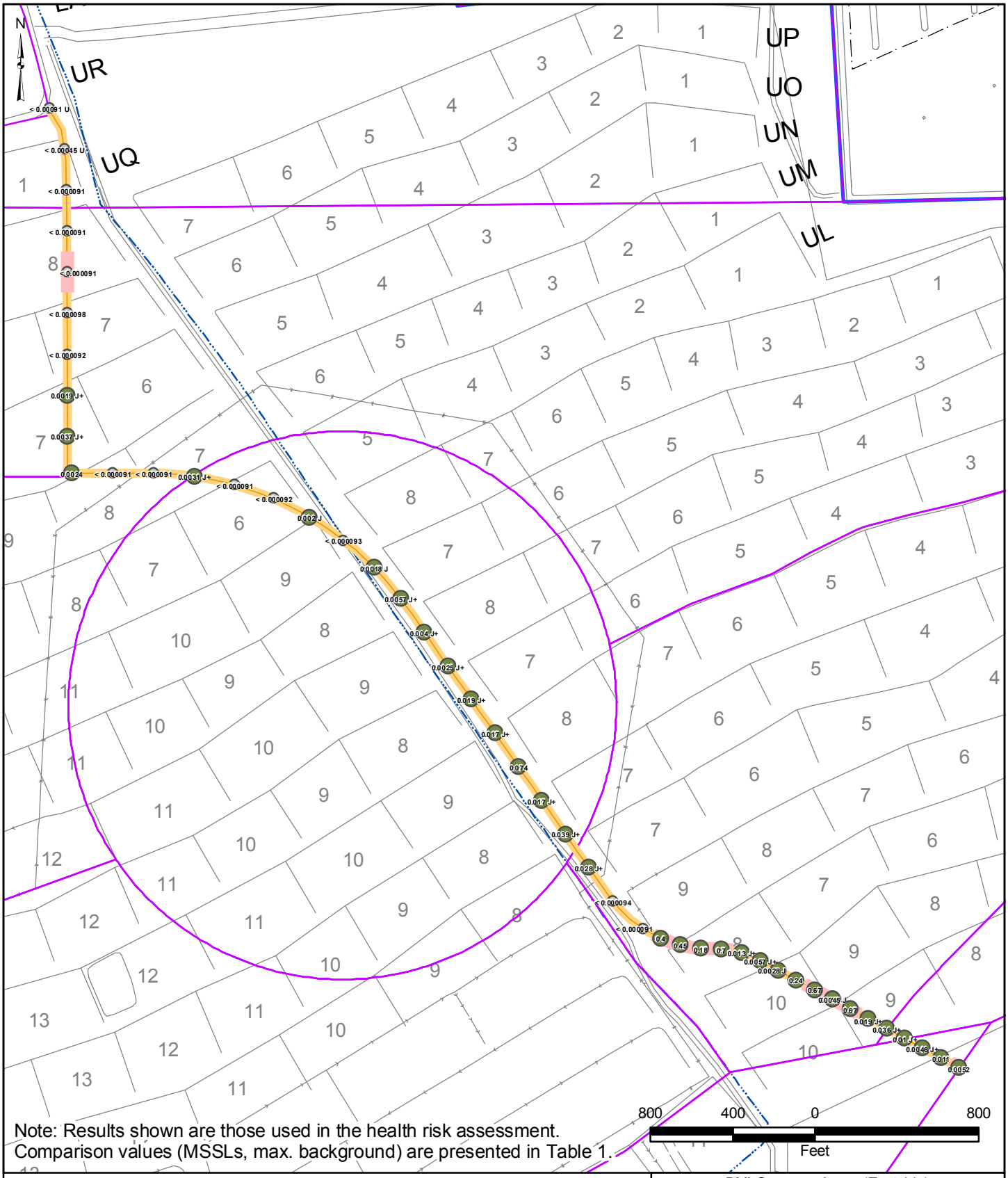
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-48

2,4'-DDD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

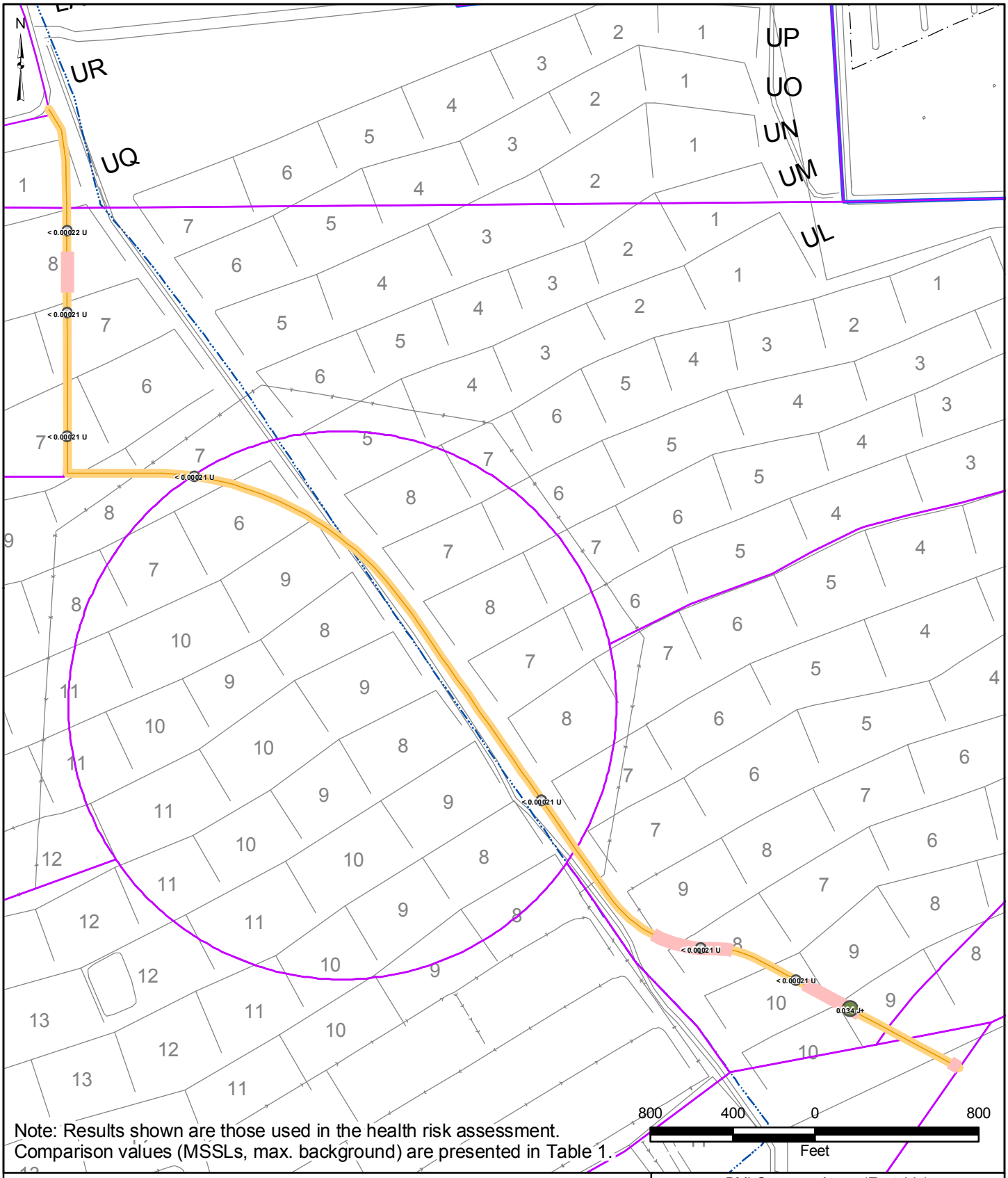
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-49

2,4'-DDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

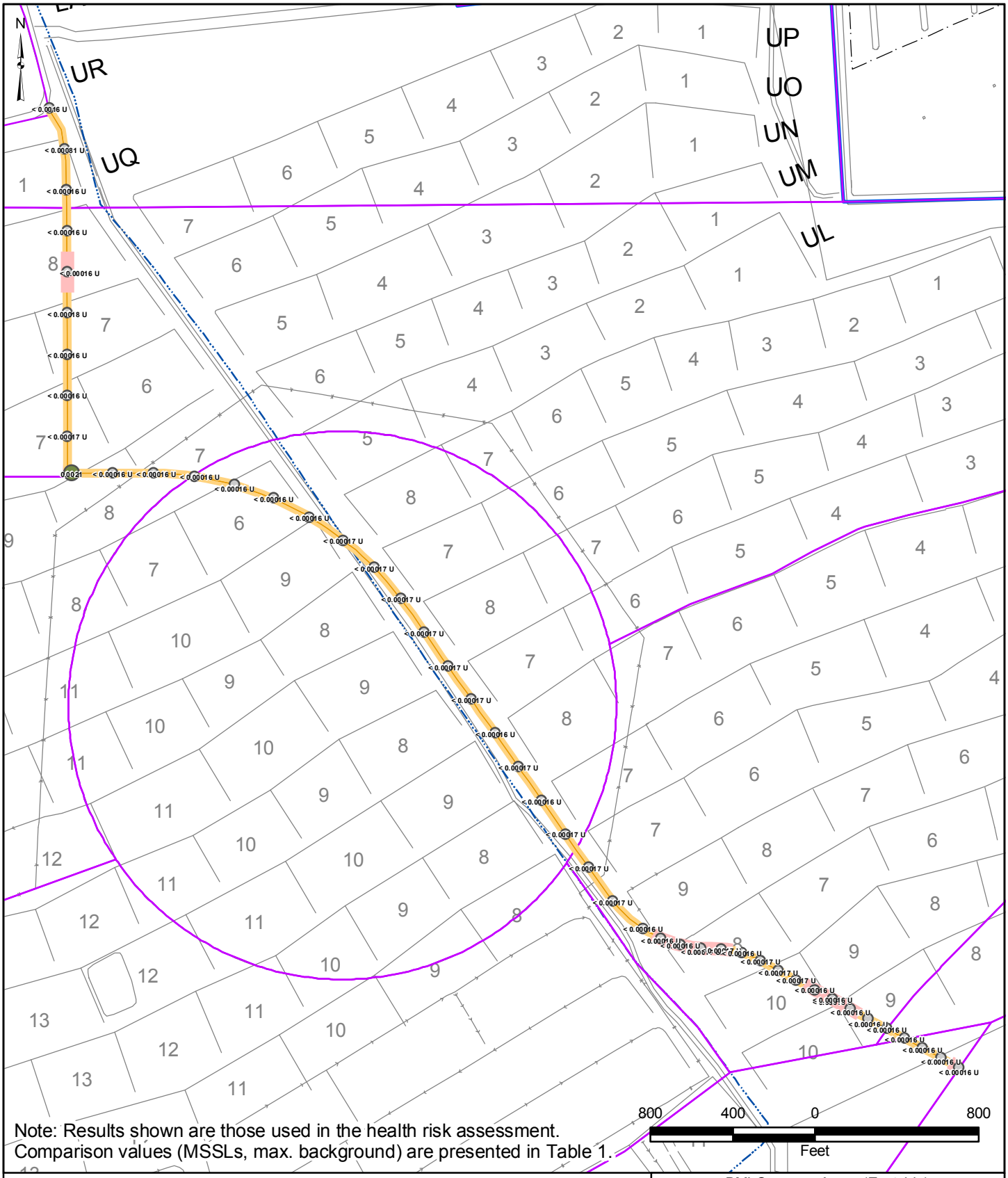
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-50

2,4'-DDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

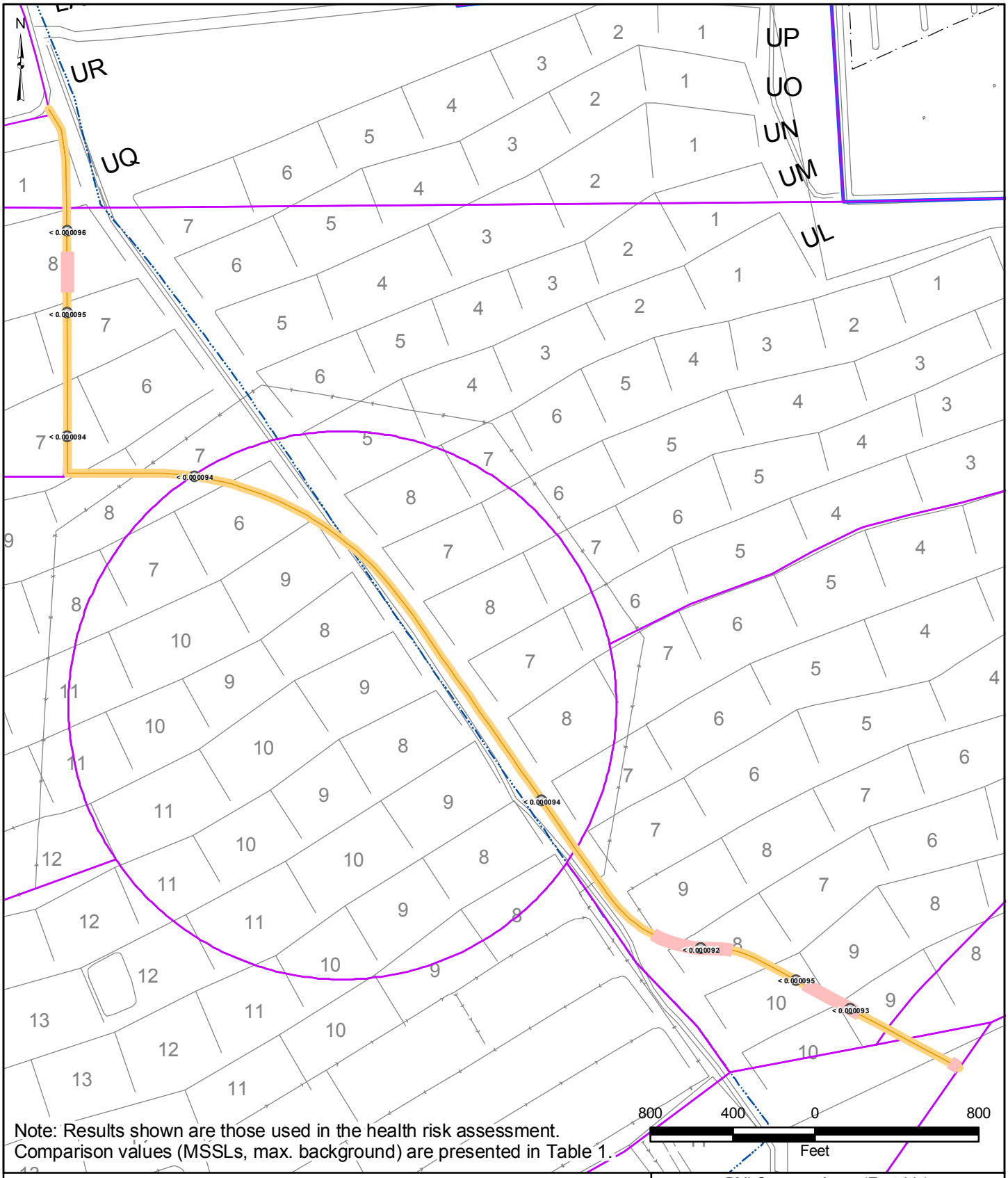
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-51

4,4'-DDD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

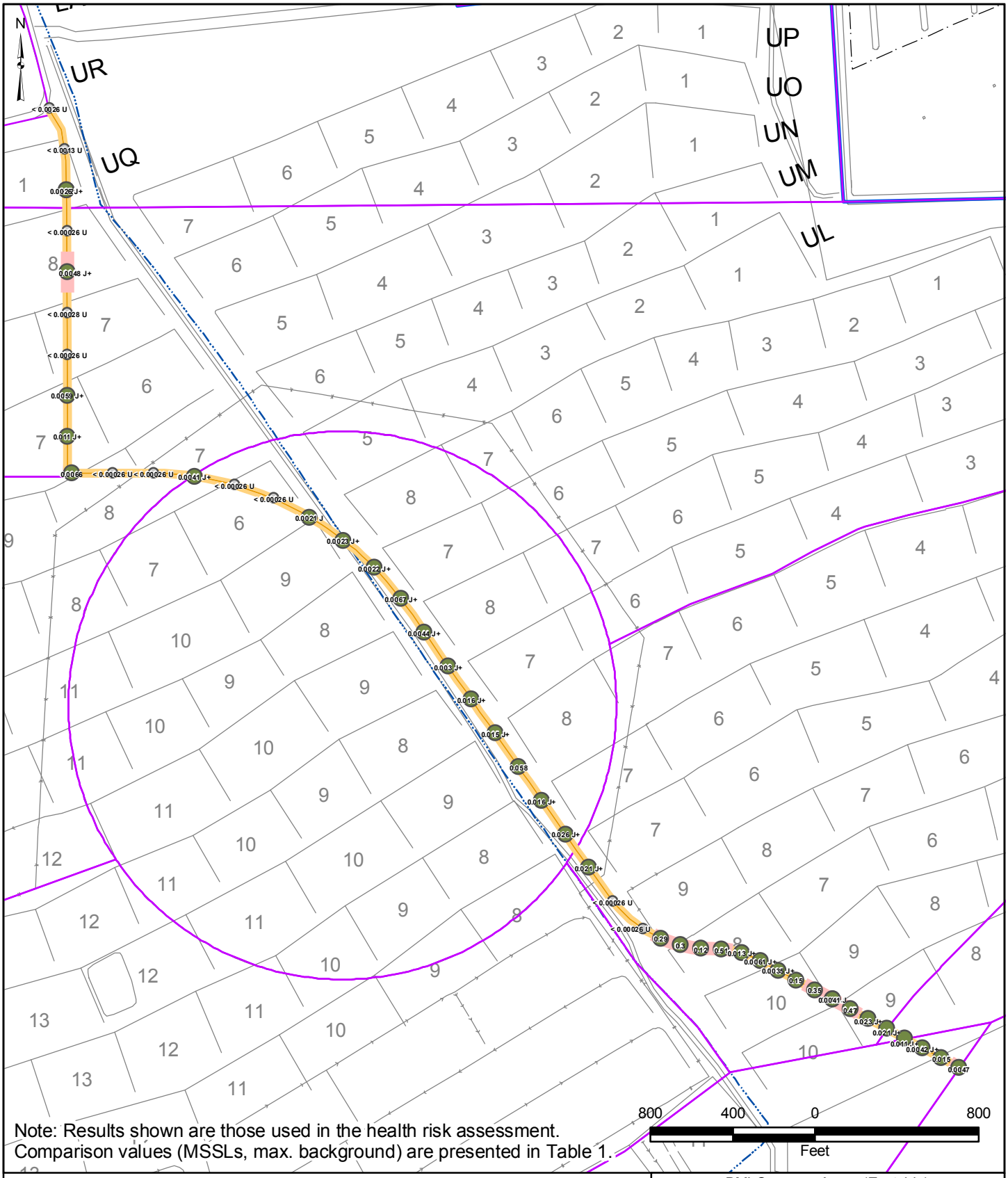
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-52

4,4'-DDD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

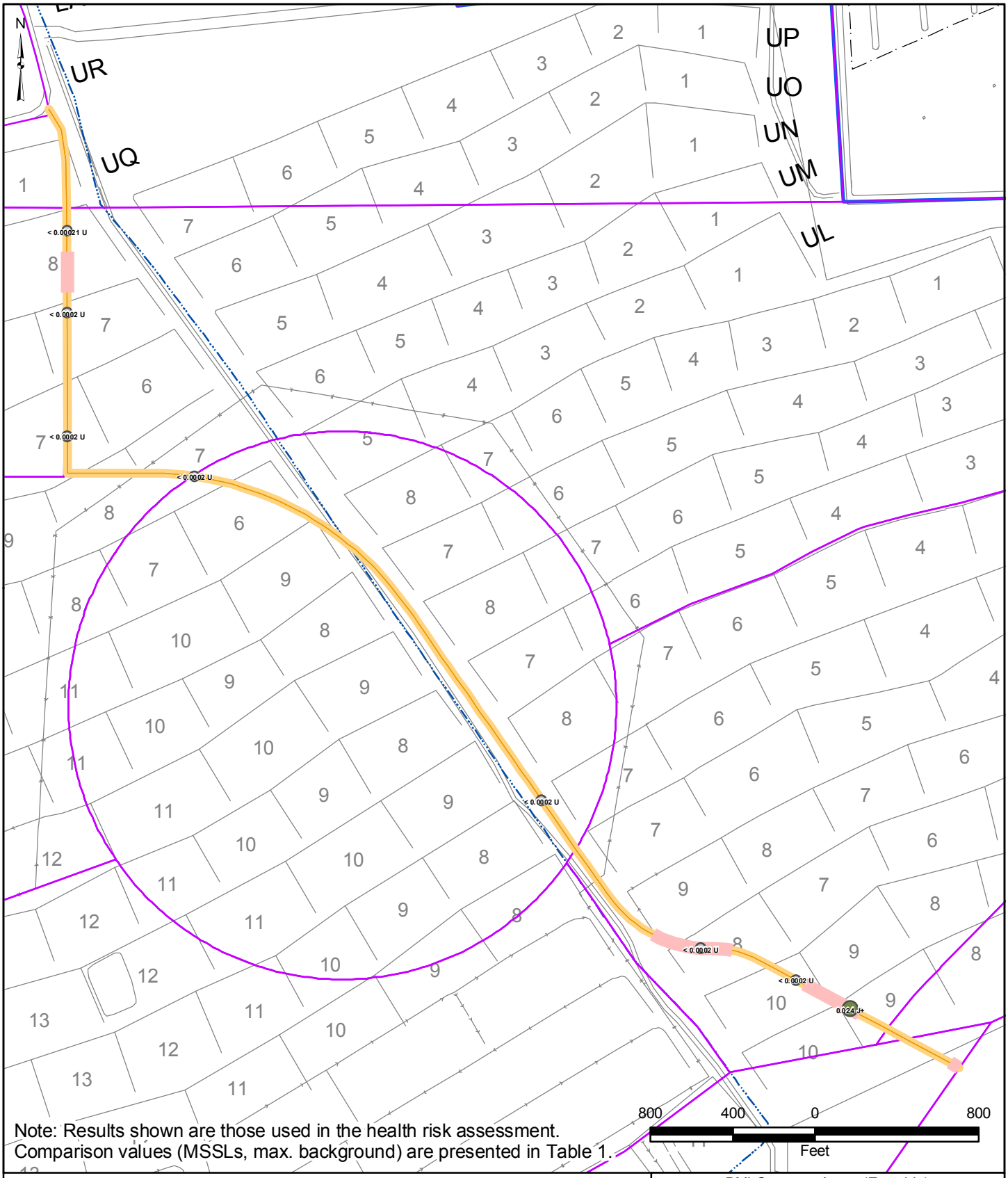
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-53

4,4'-DDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

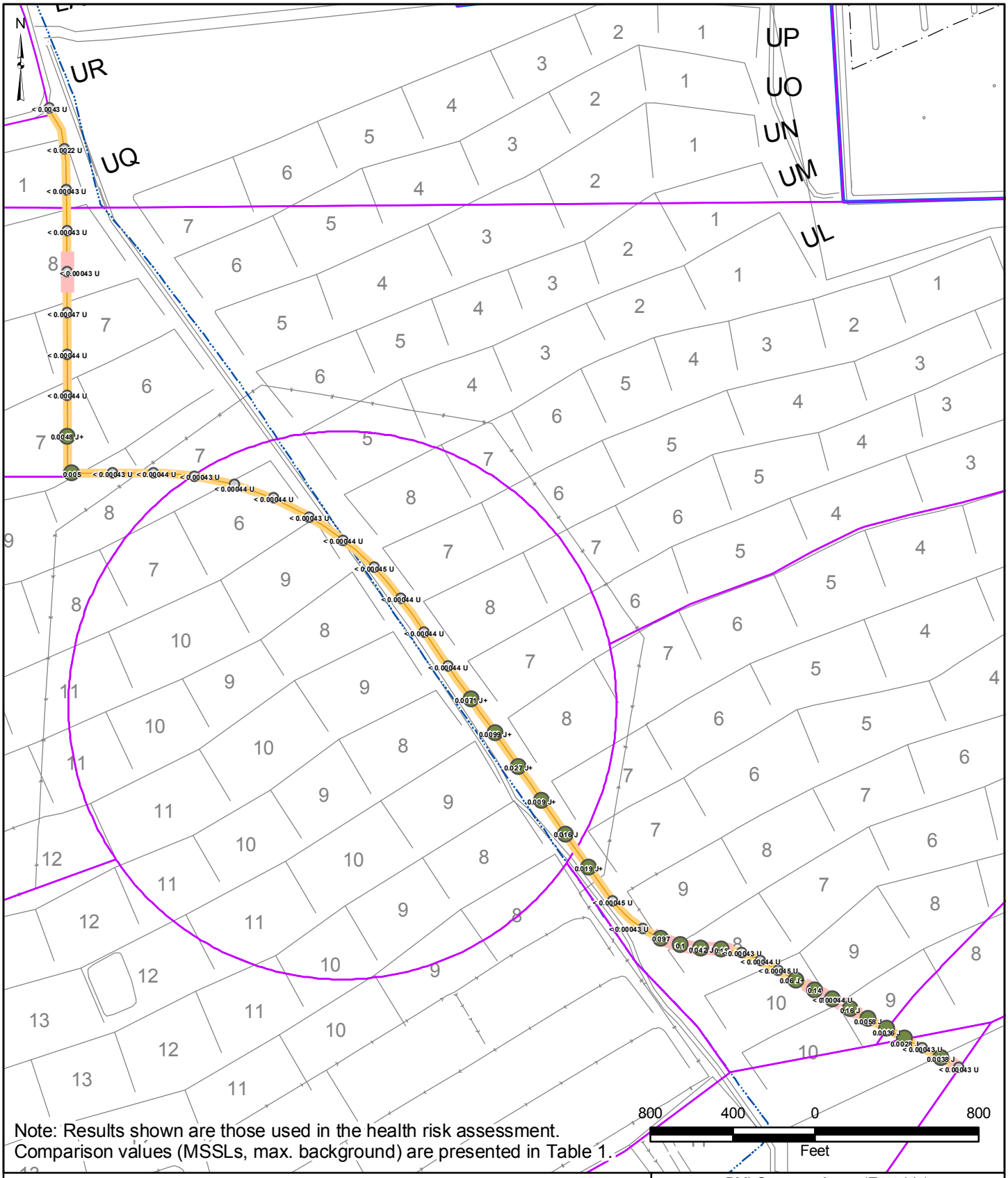
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-54

4,4'-DDE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

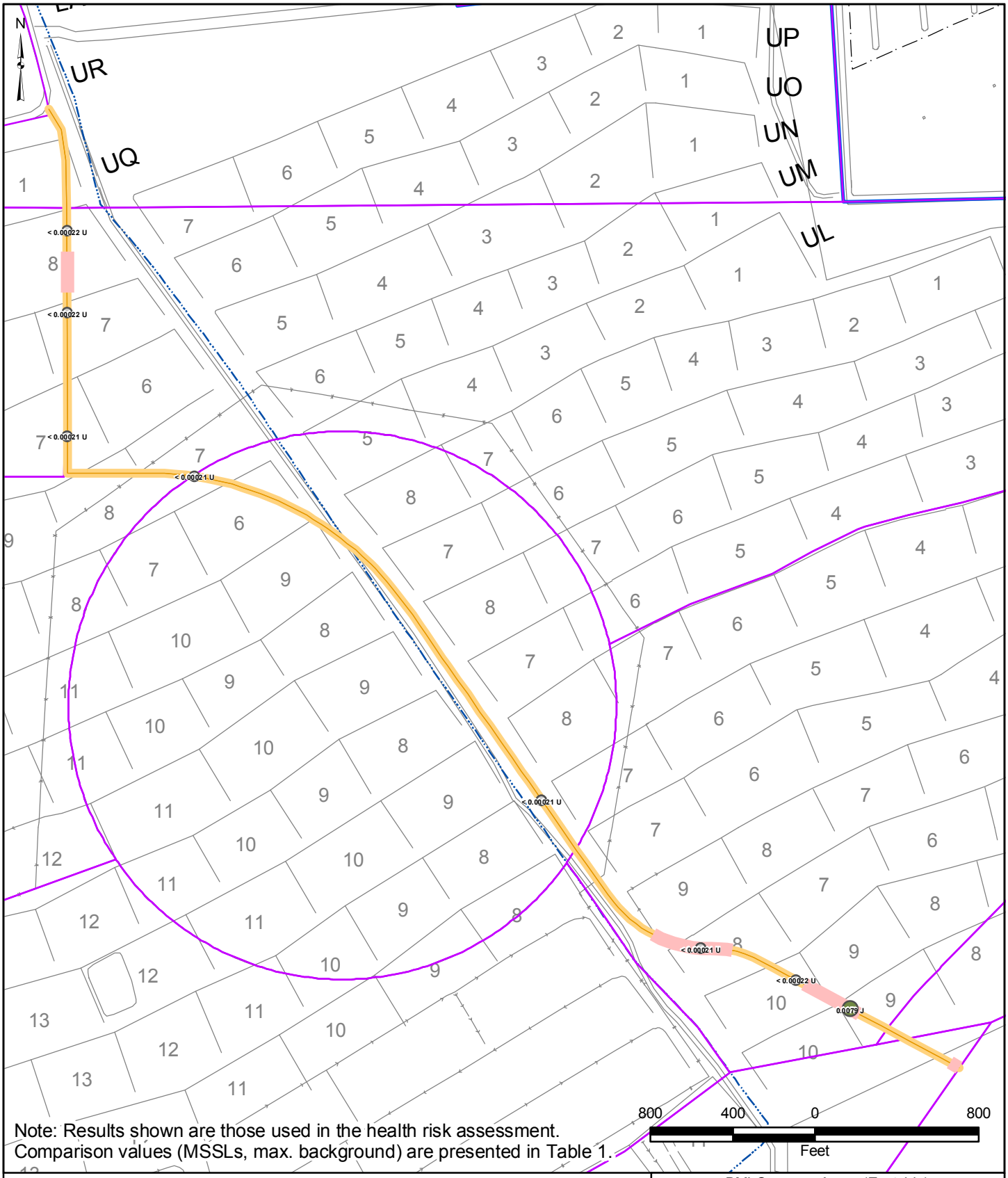
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-55

4,4'-DDT
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

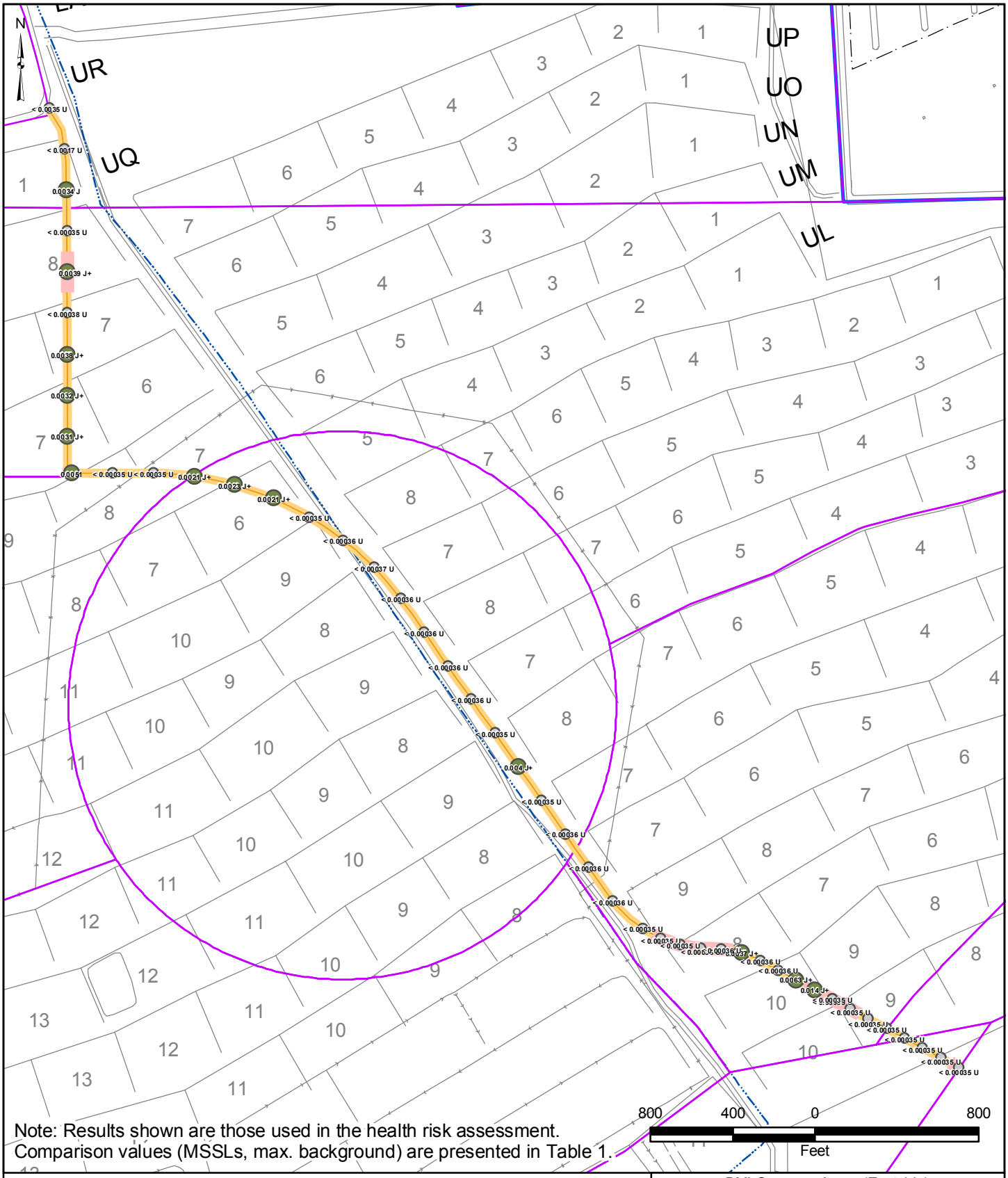
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-56

4,4'-DDT
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

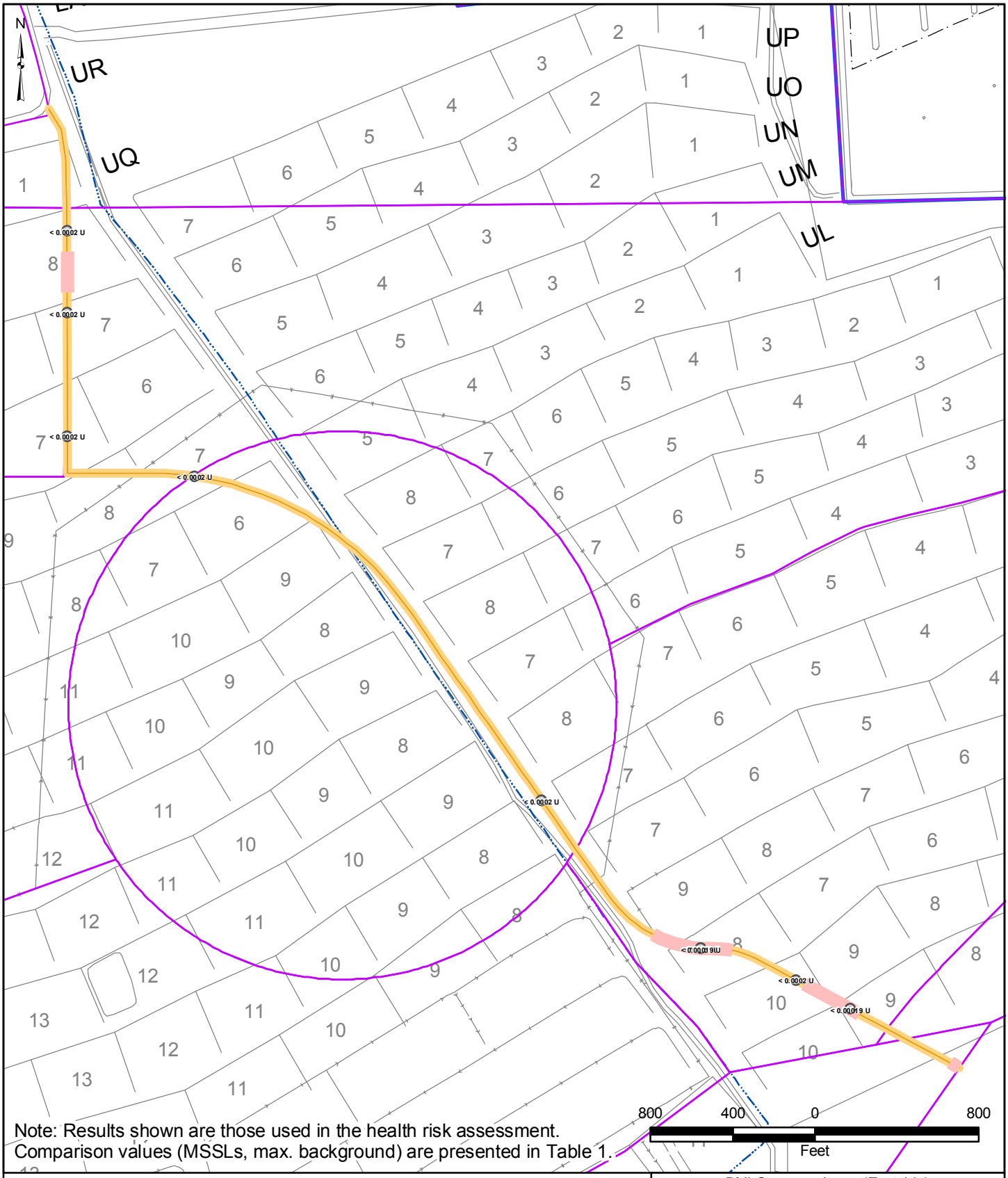
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-57

beta-BHC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

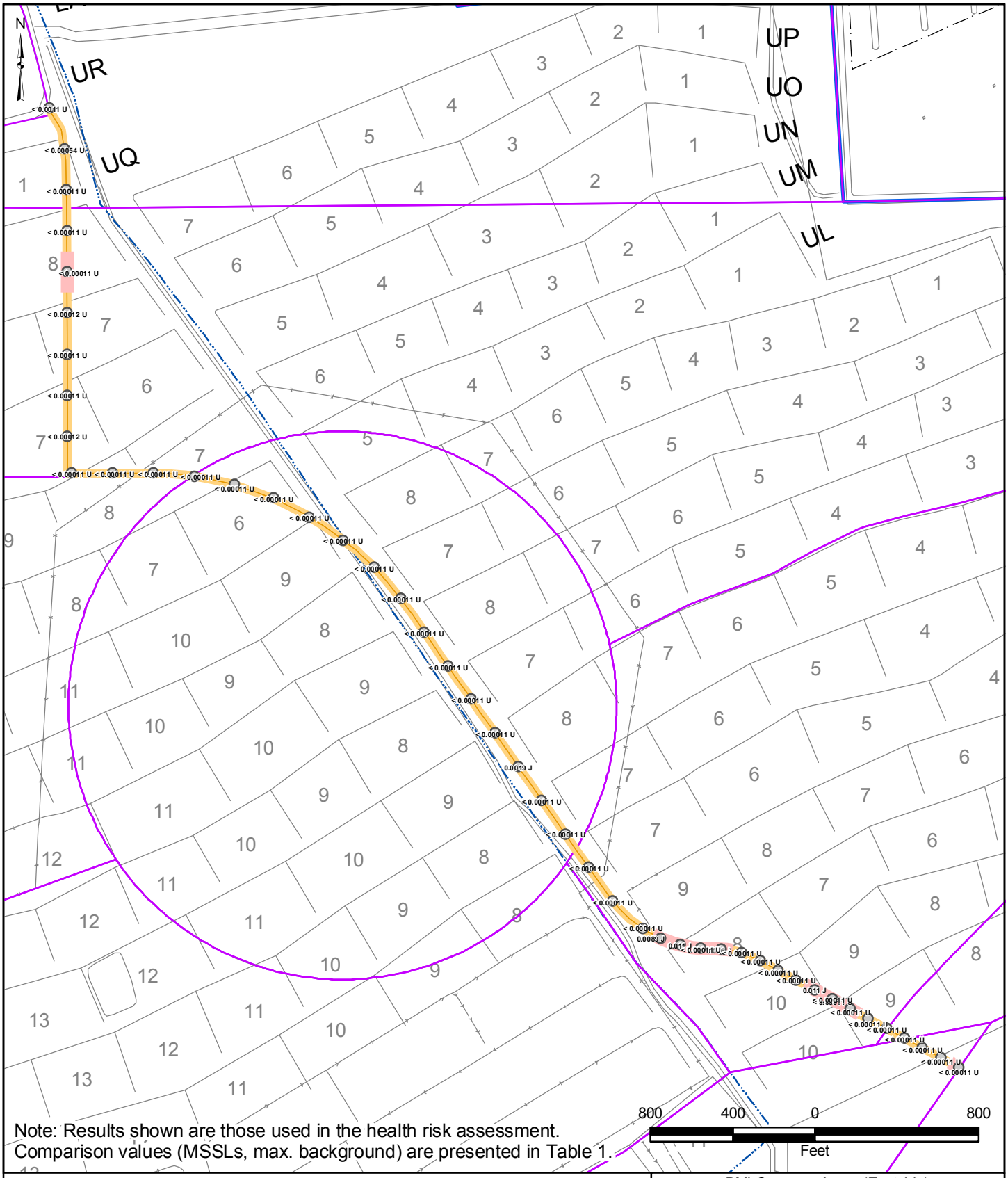
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-58

beta-BHC
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

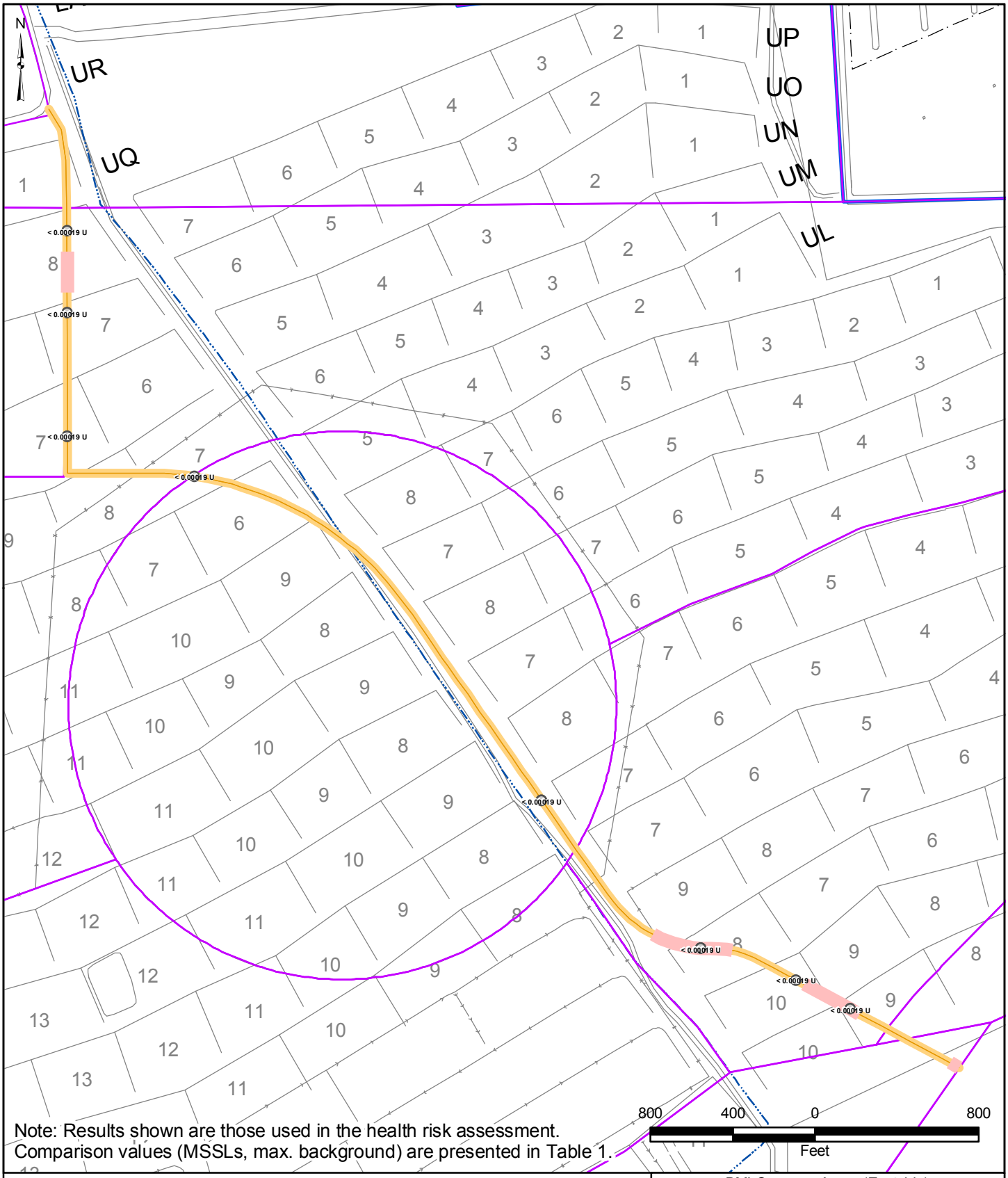
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-59

ENDRIN ALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

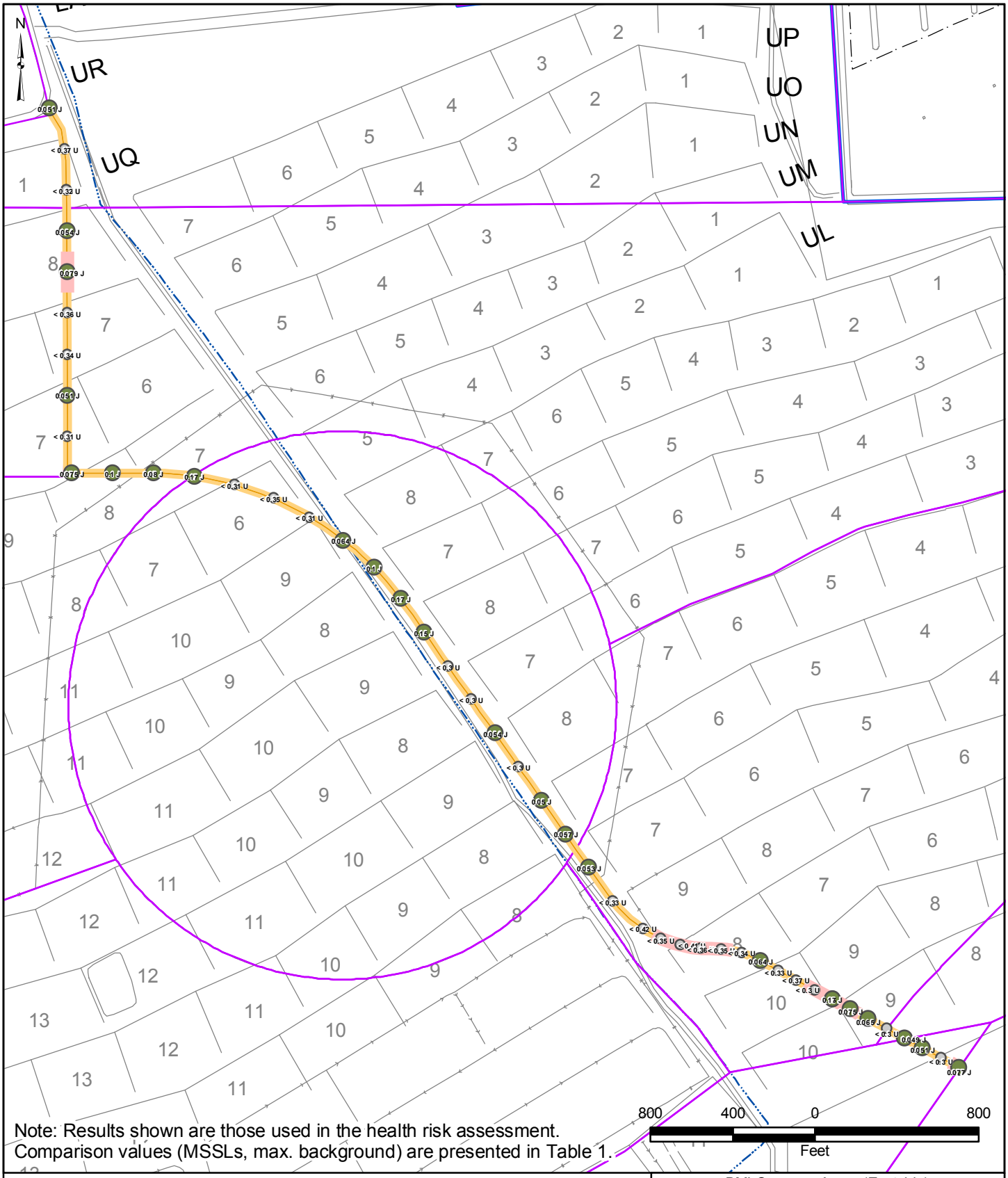
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-60

ENDRIN ALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

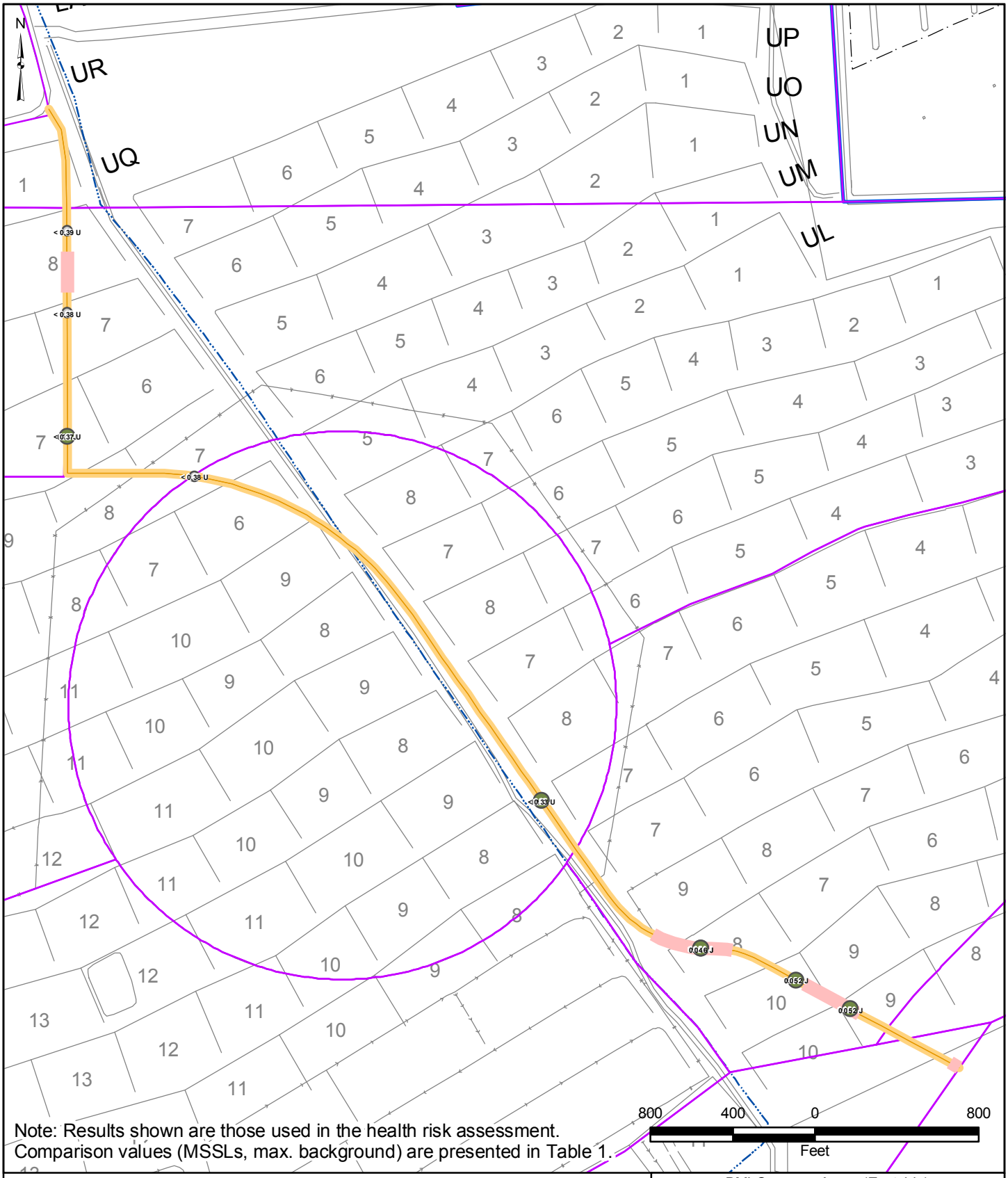
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-61

ACETALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

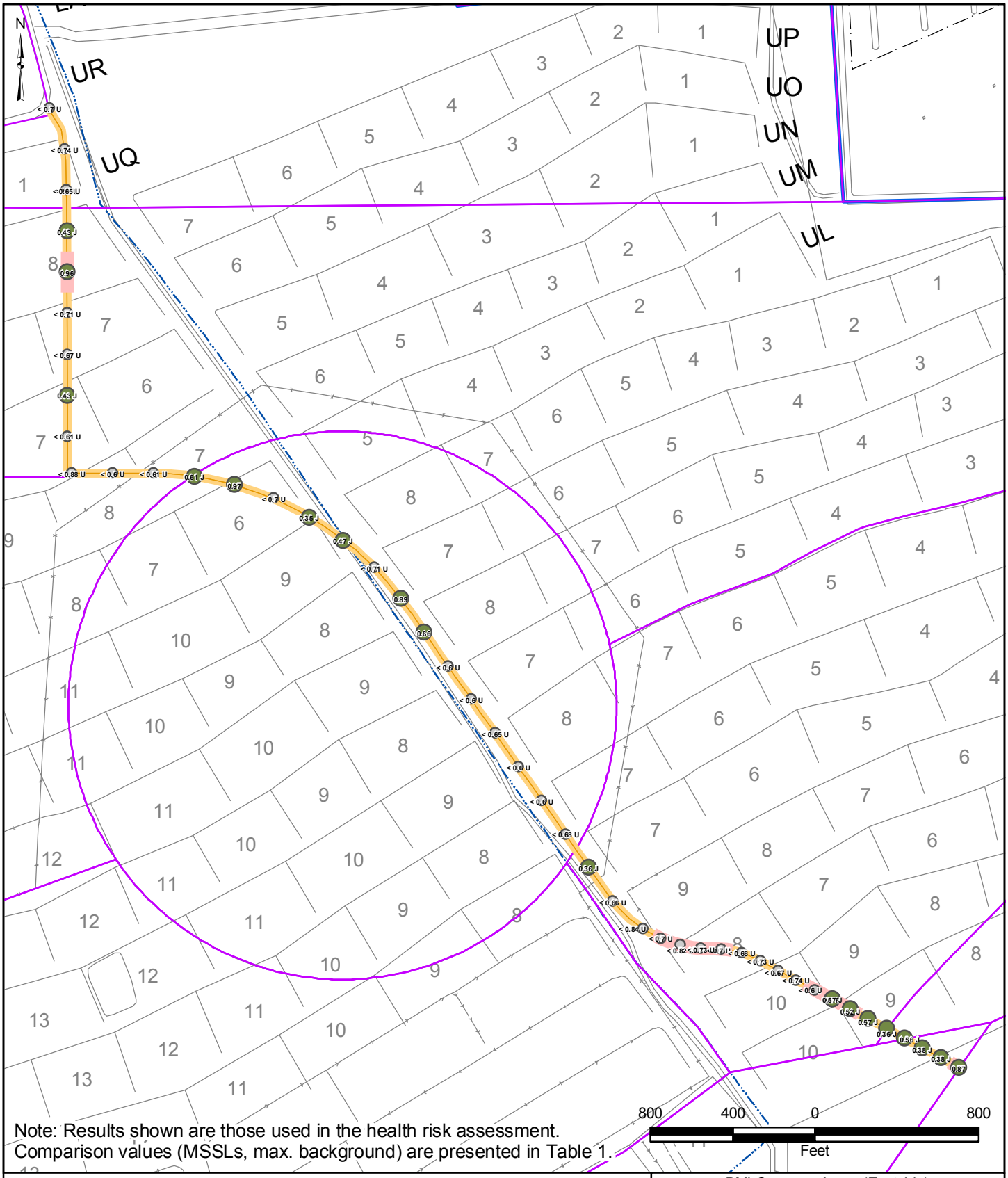
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-62

ACETALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

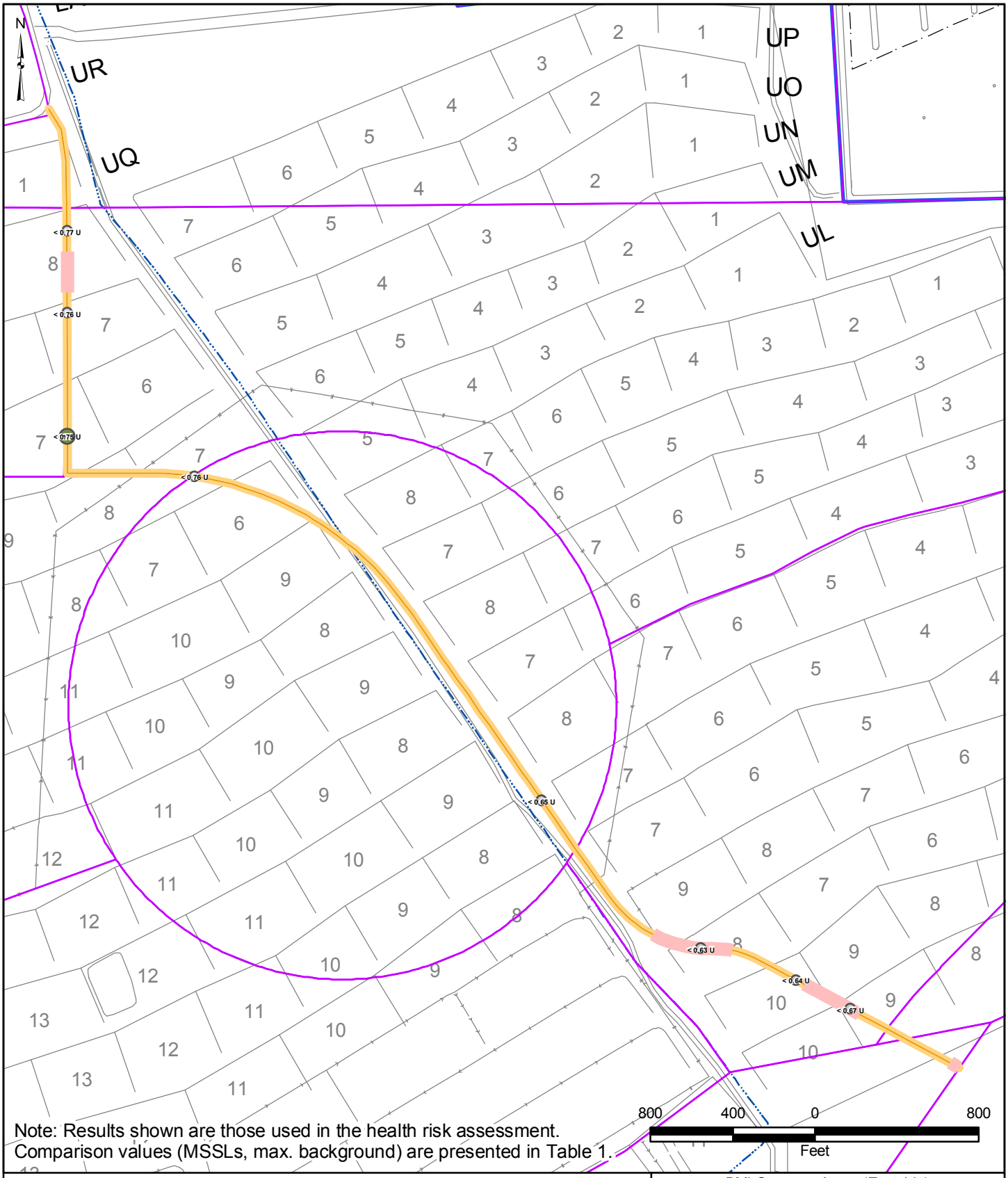
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-63

FORMALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

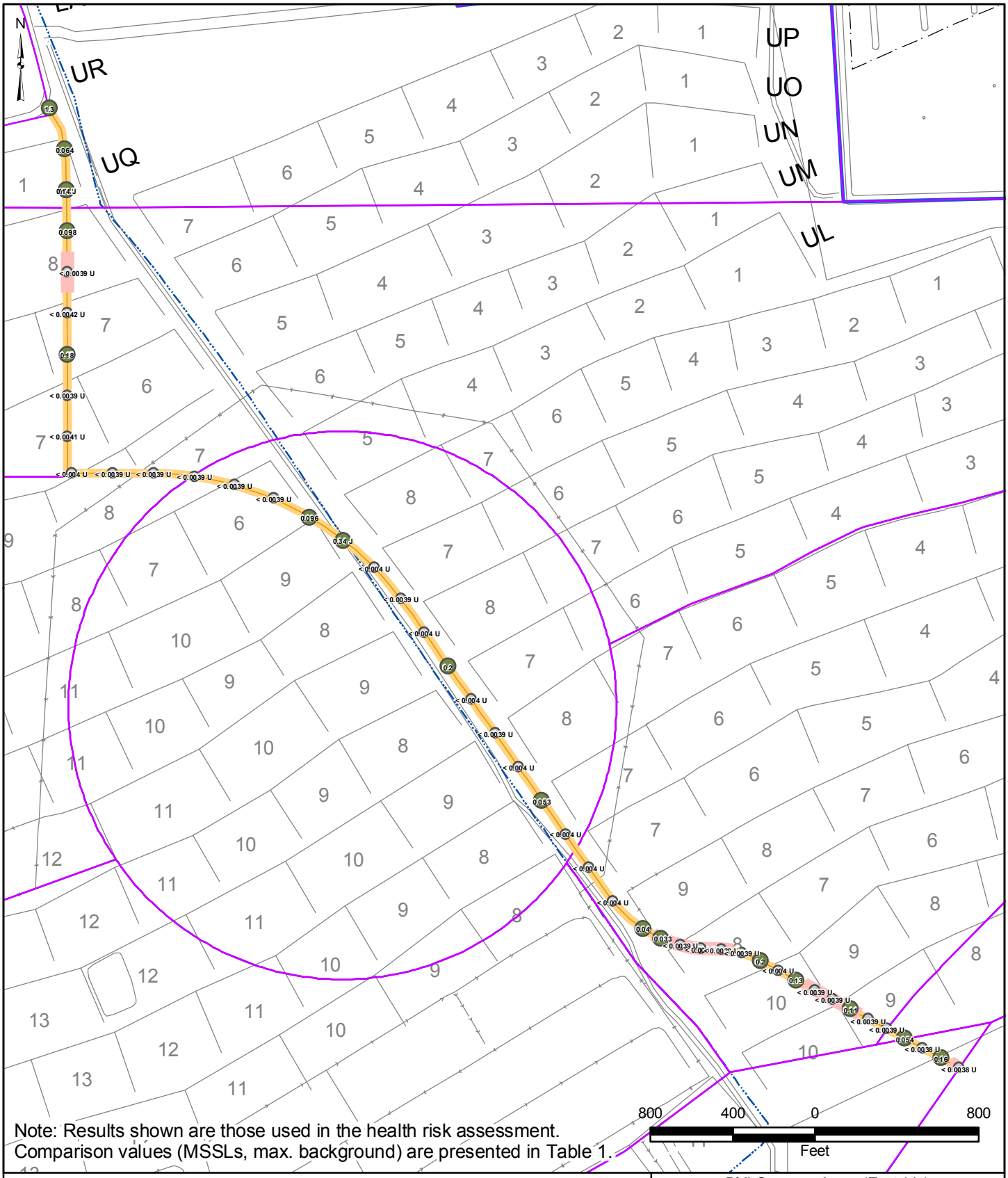
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-64

FORMALDEHYDE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

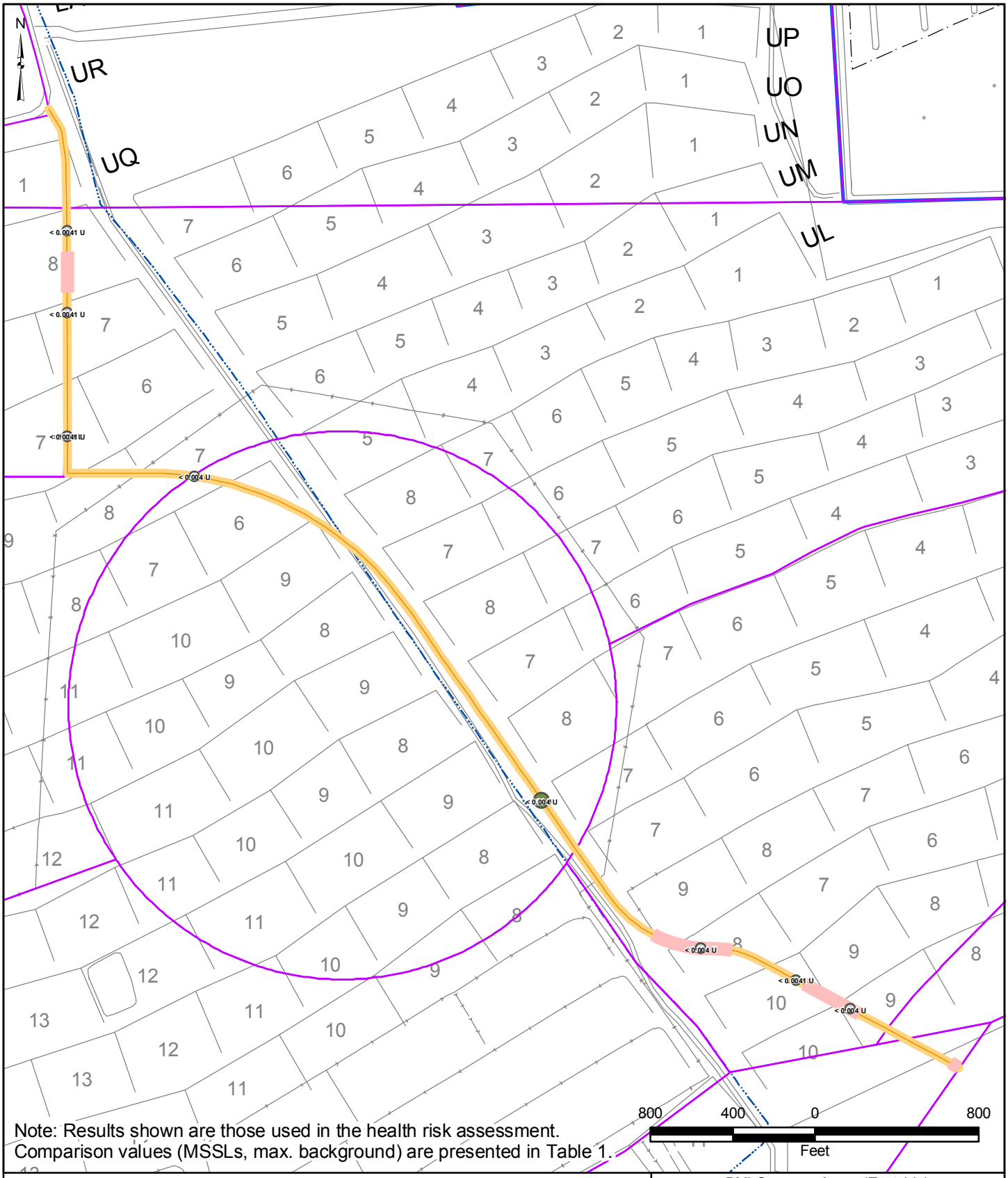
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-65

ACETONE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

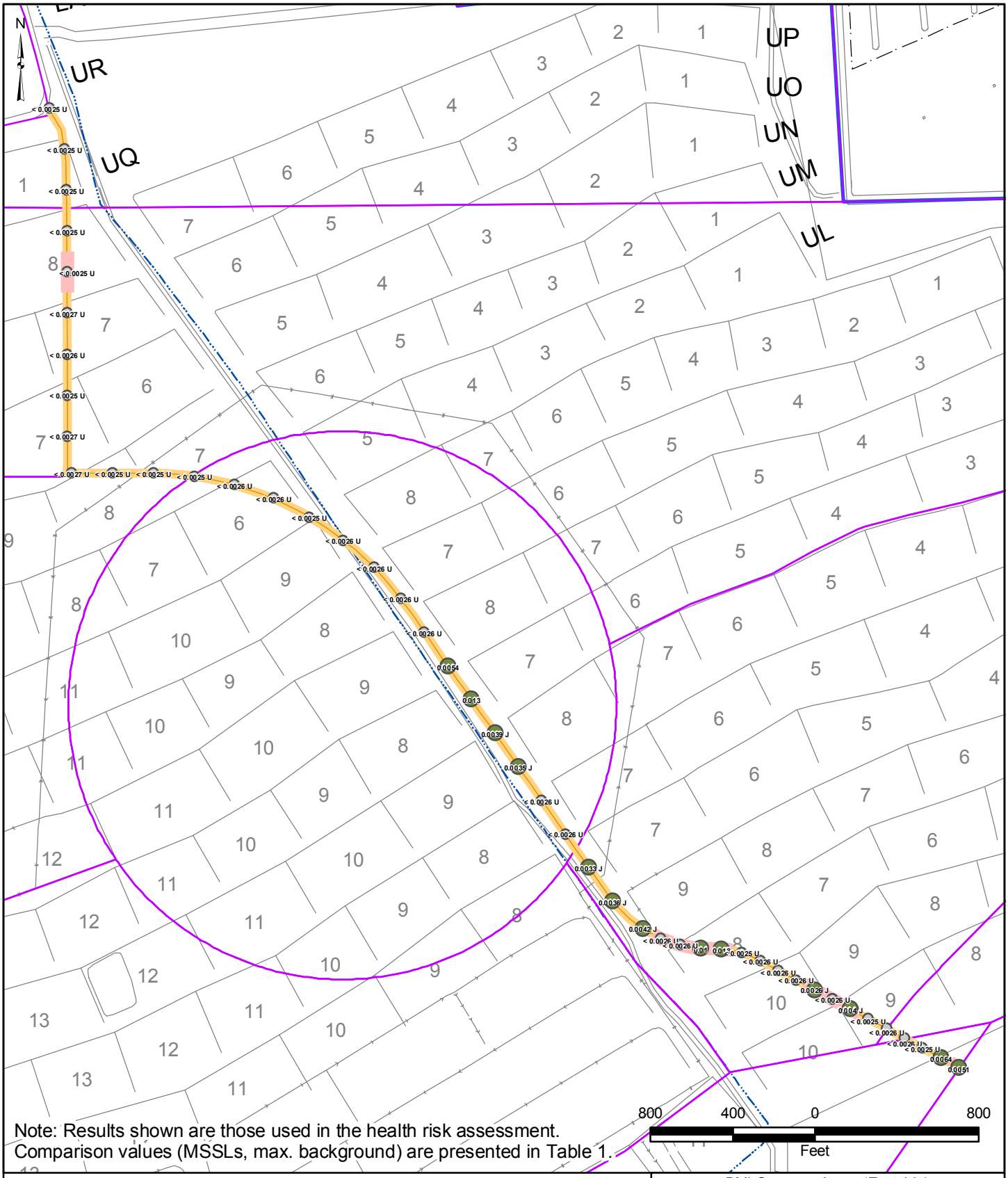
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-66

ACETONE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

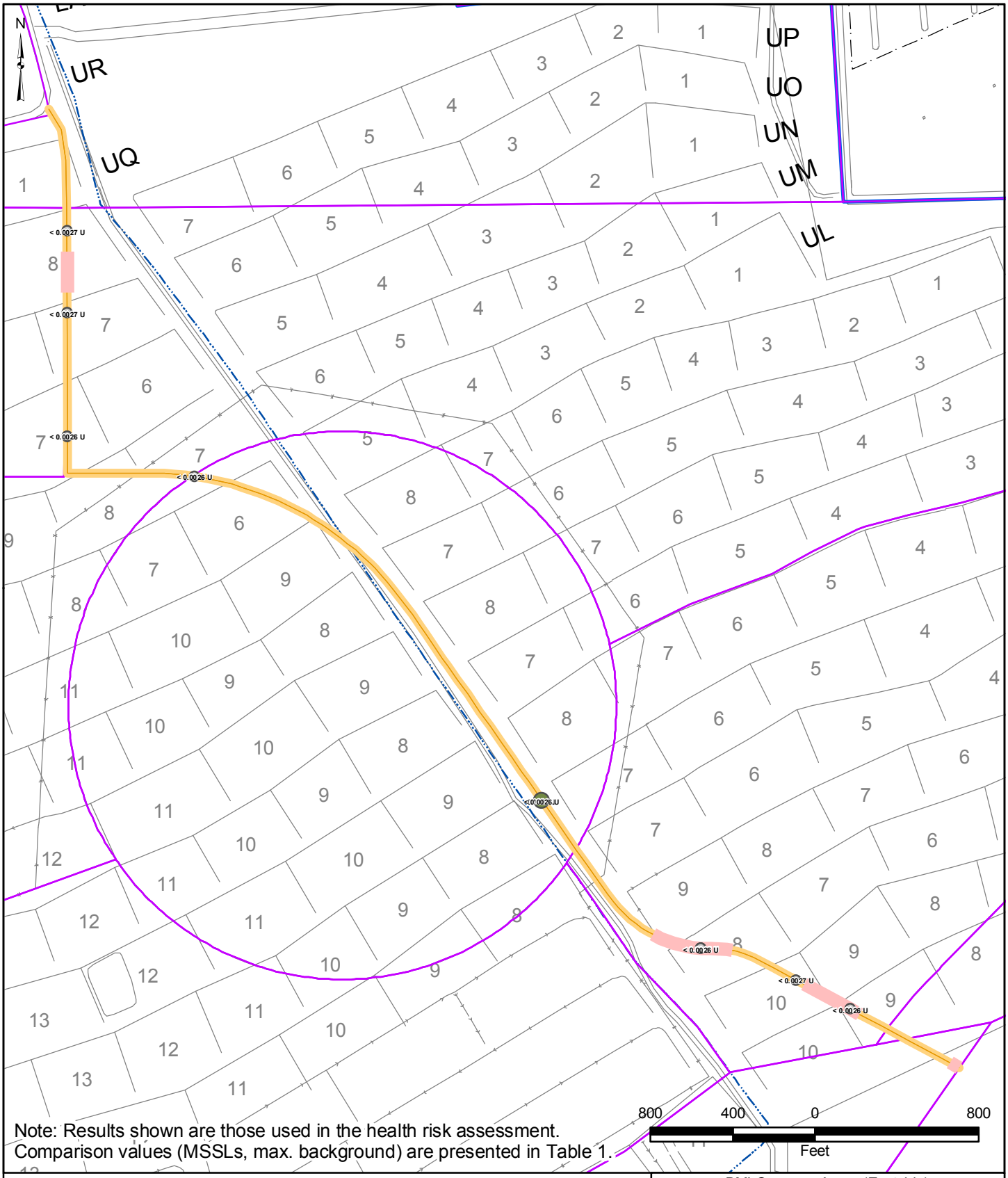
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-67

DICHLOROMETHANE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

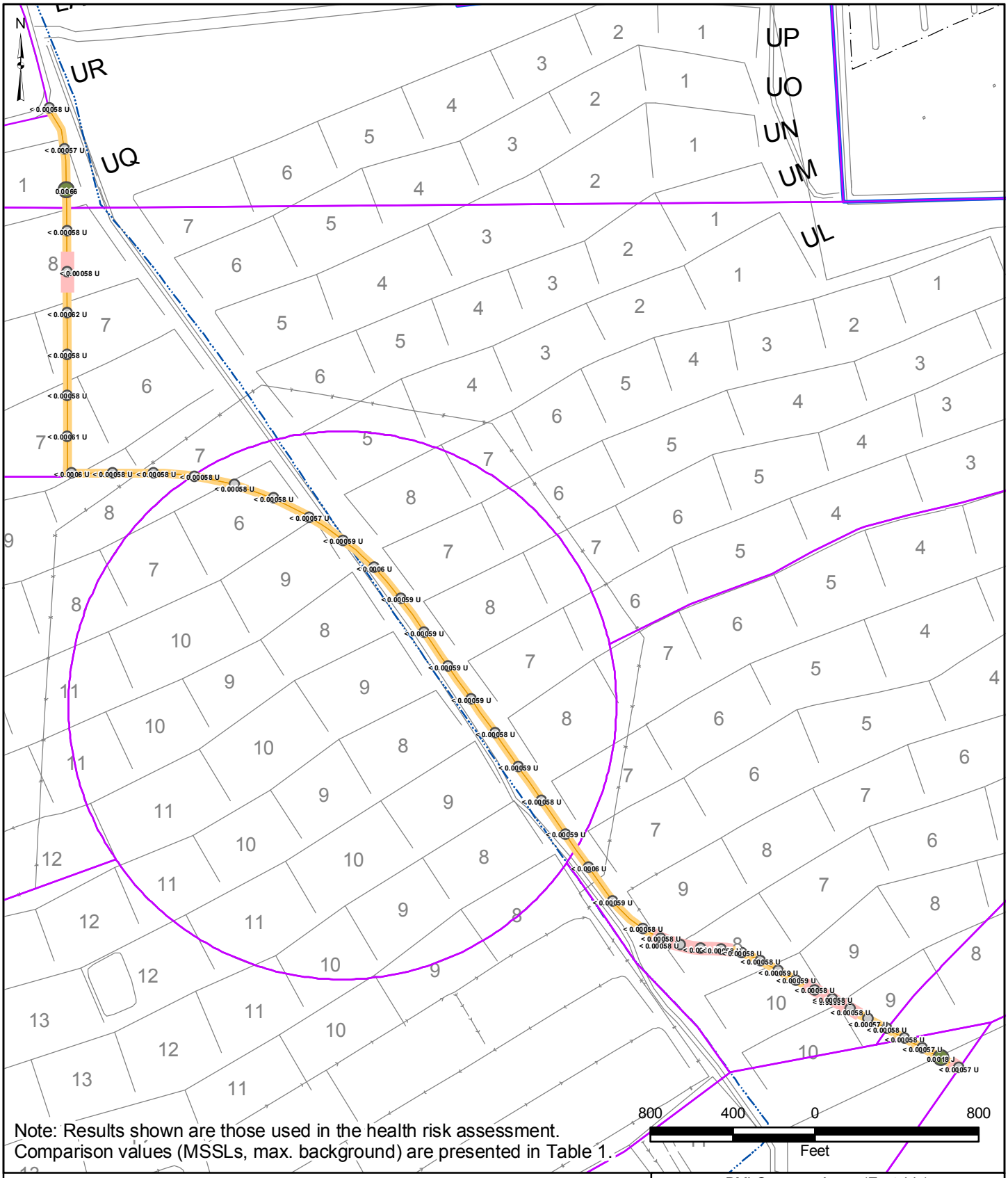
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-68

DICHLOROMETHANE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

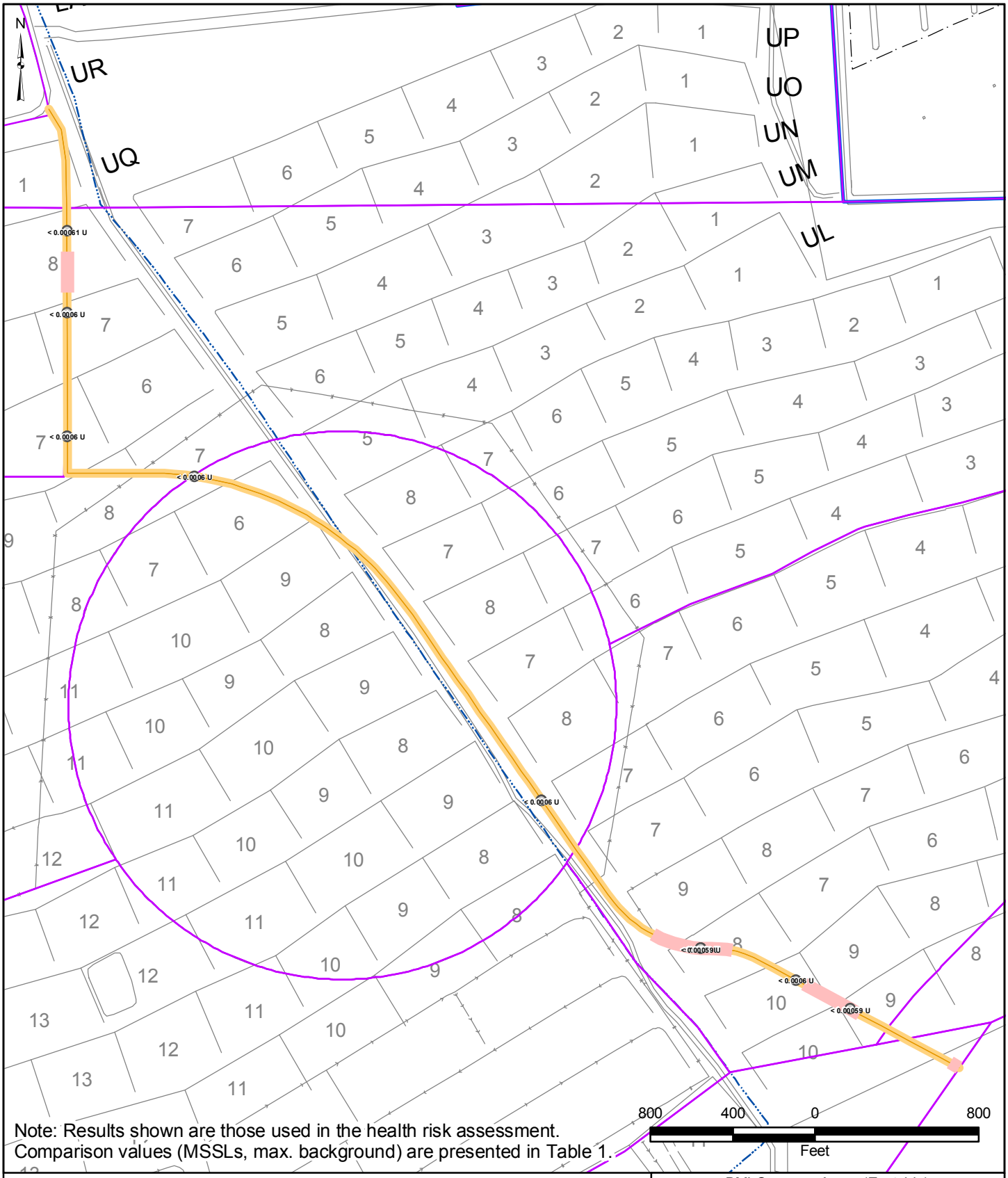
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-69

m,p-XYLENE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

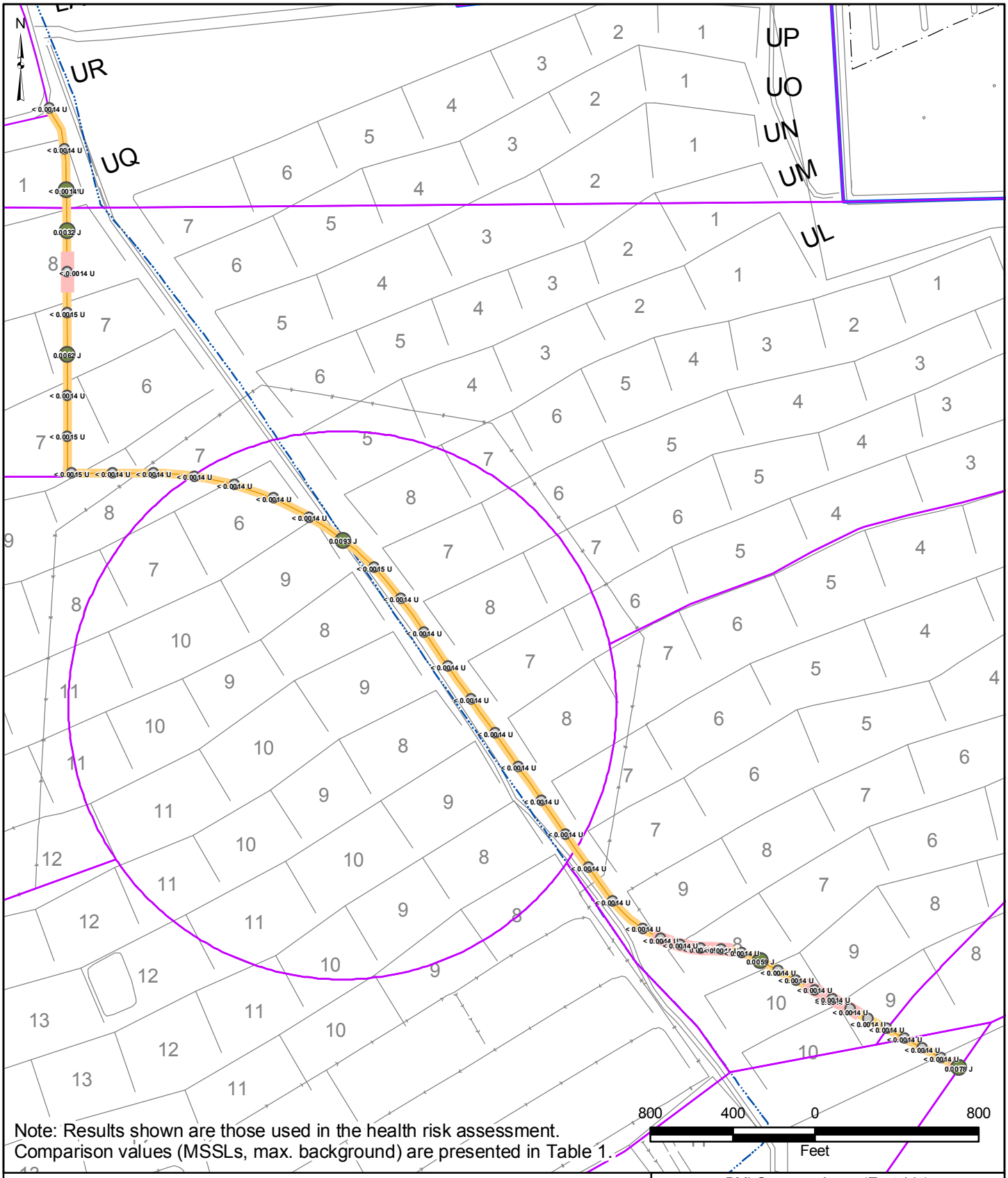
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-70

m,p-XYLENE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

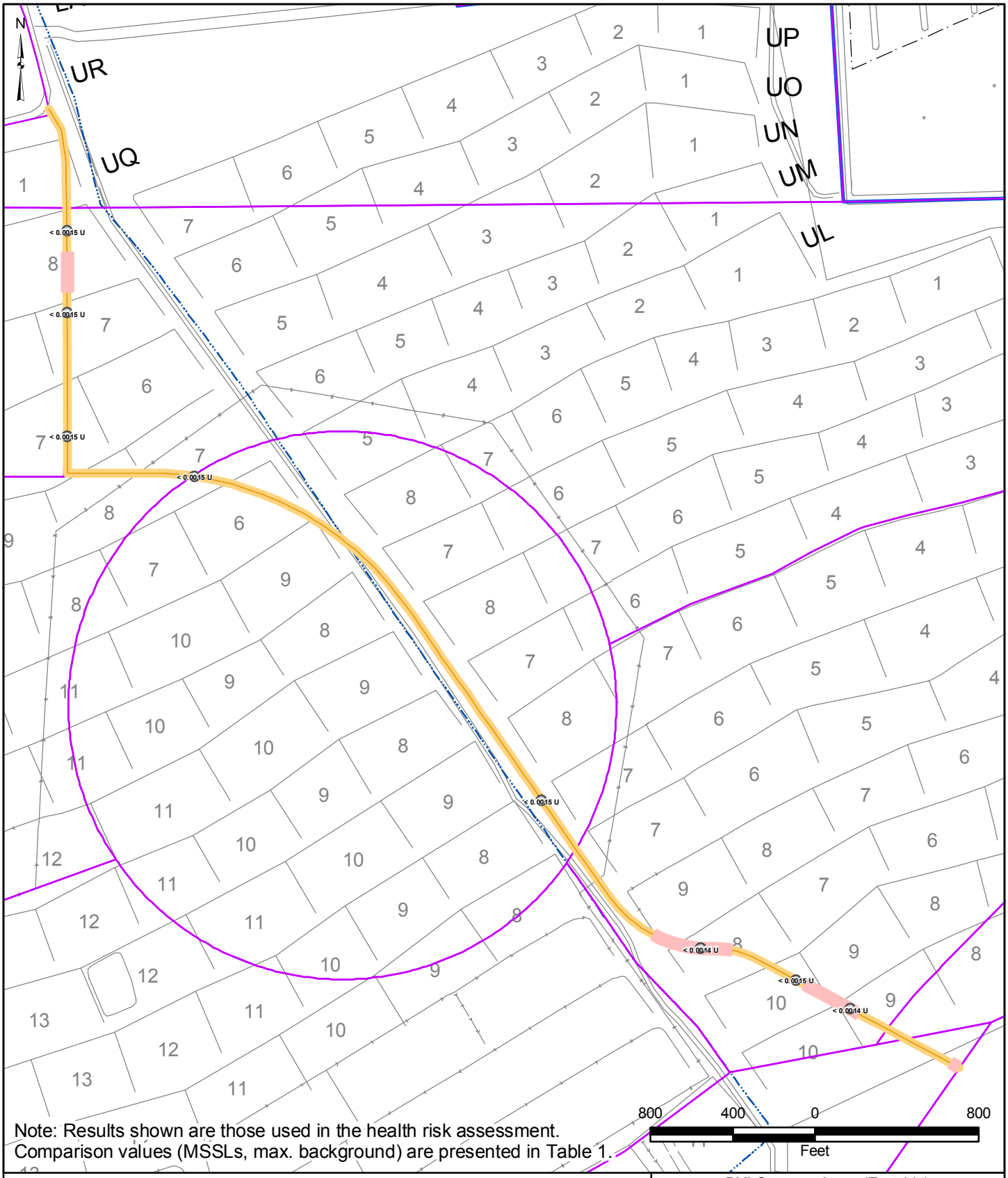
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-71

METHYL ETHYL KETONE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

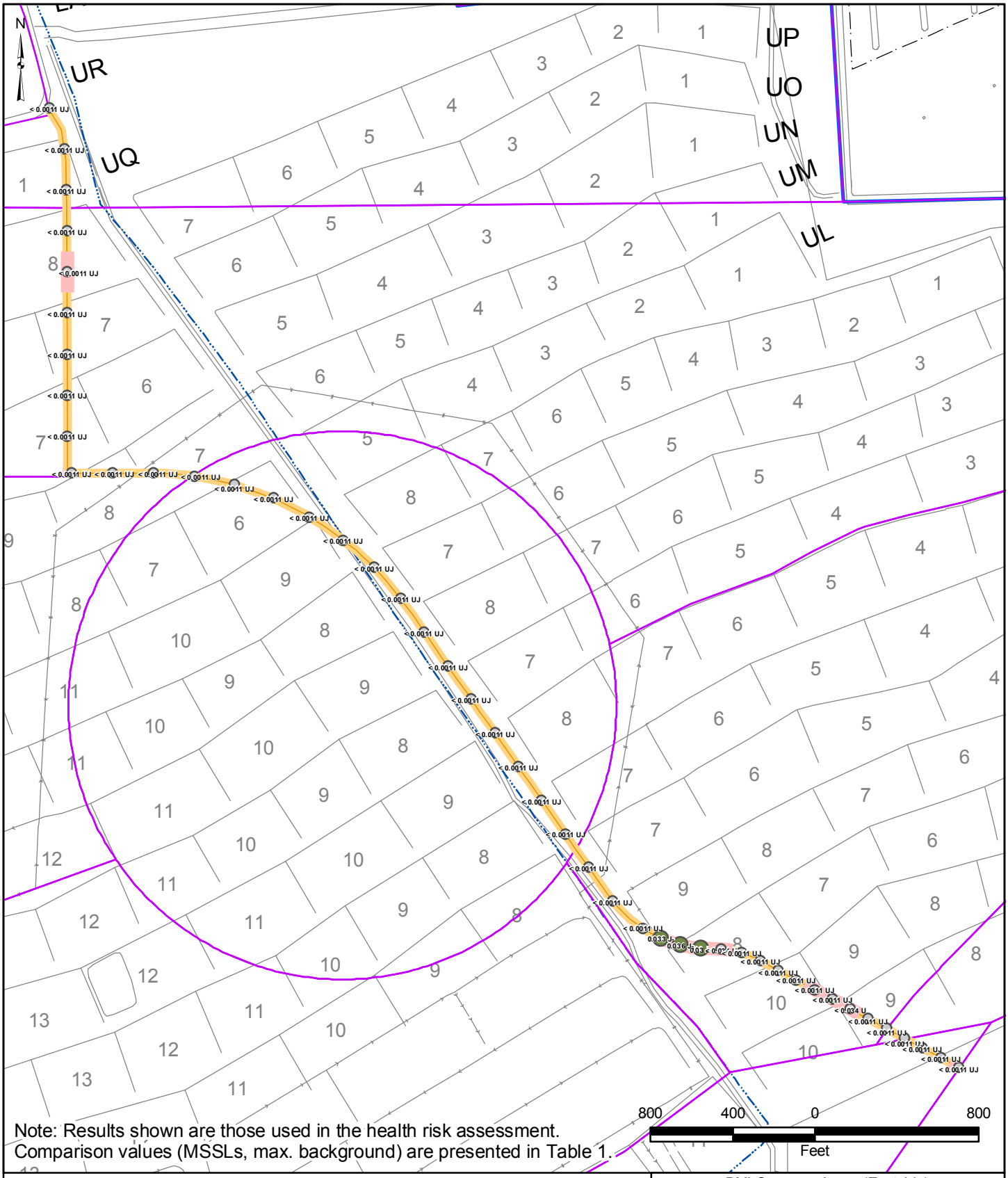
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-72

METHYL ETHYL KETONE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

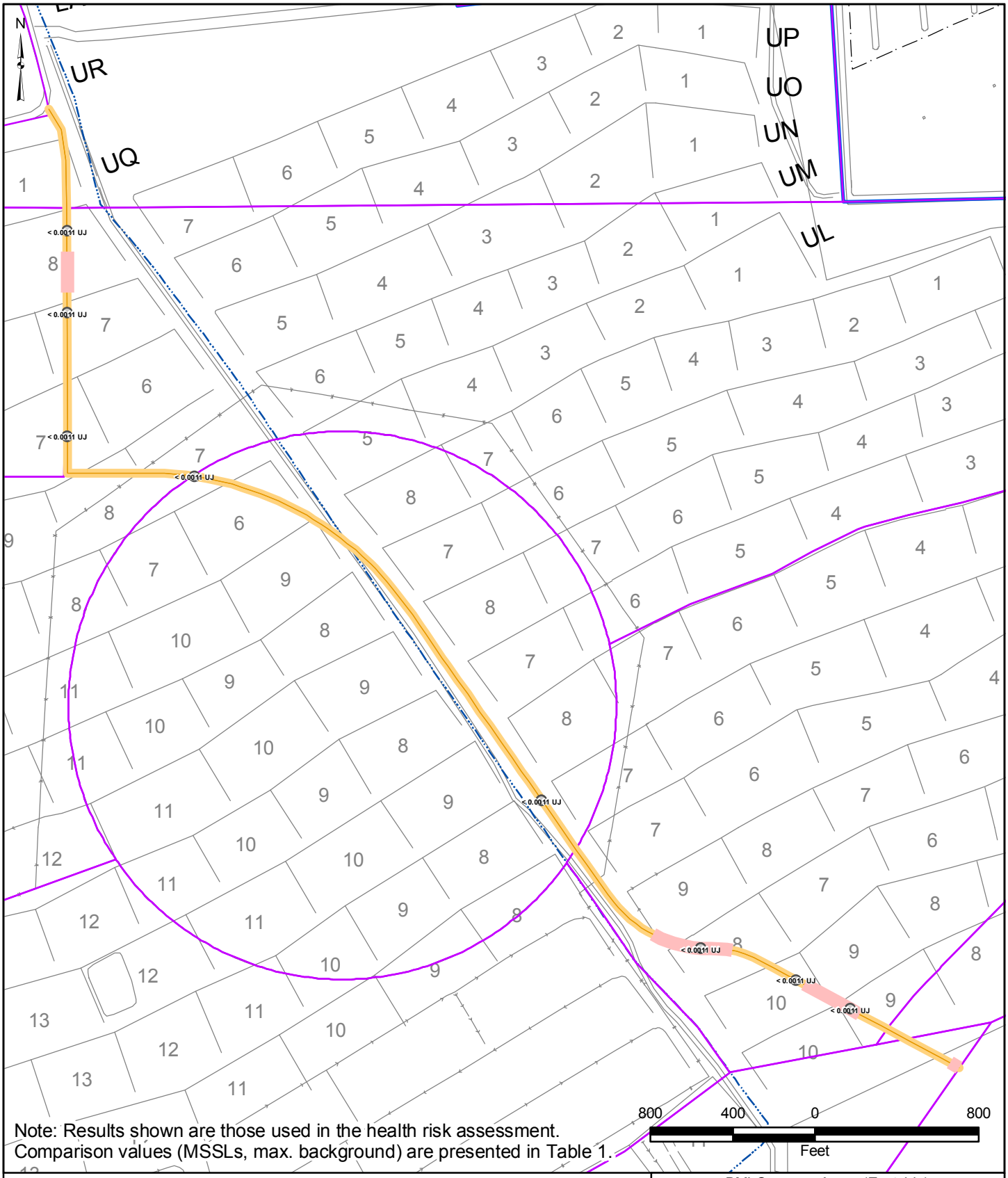
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-73

CHRYSENE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

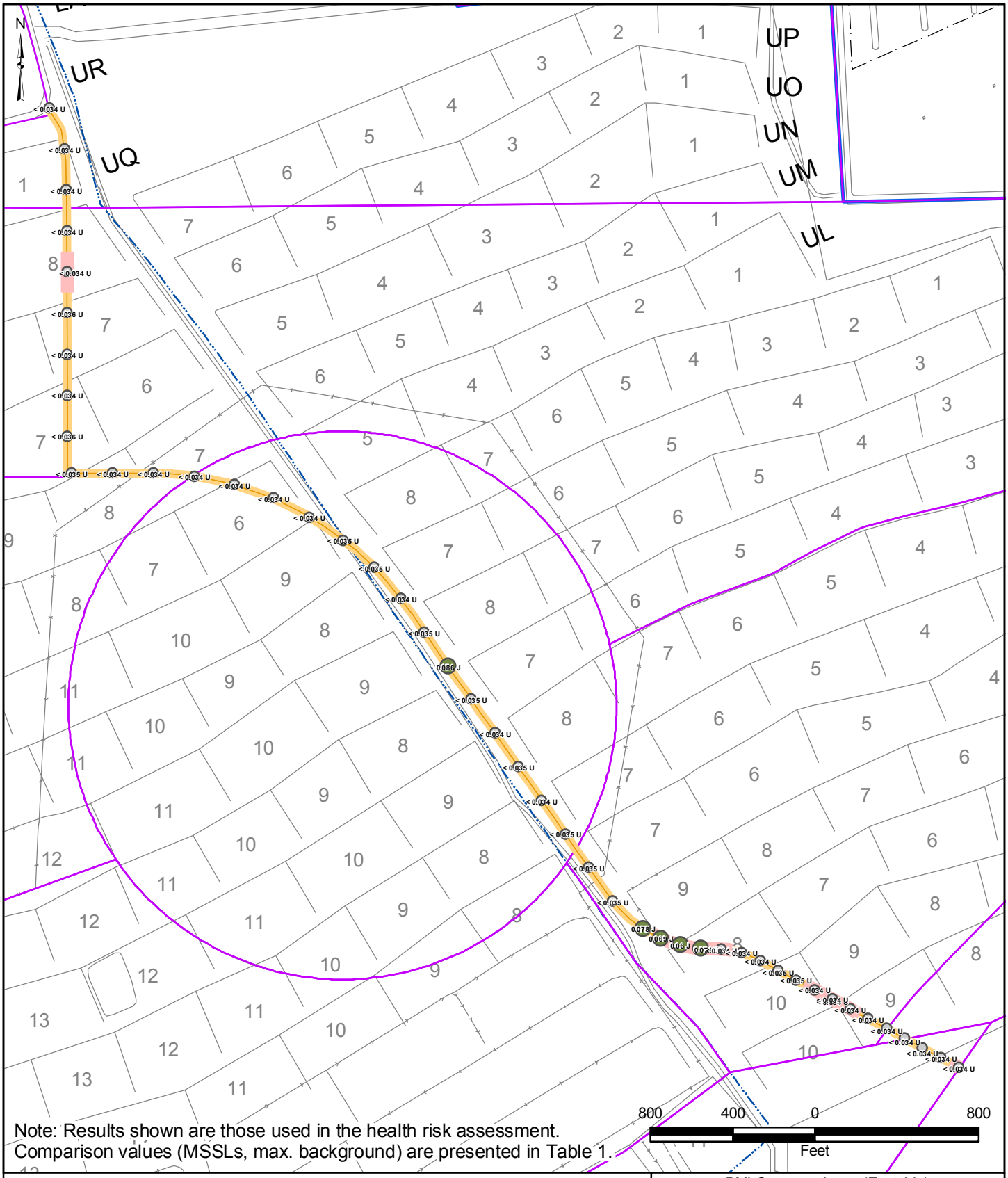
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-74

CHRYSENE
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

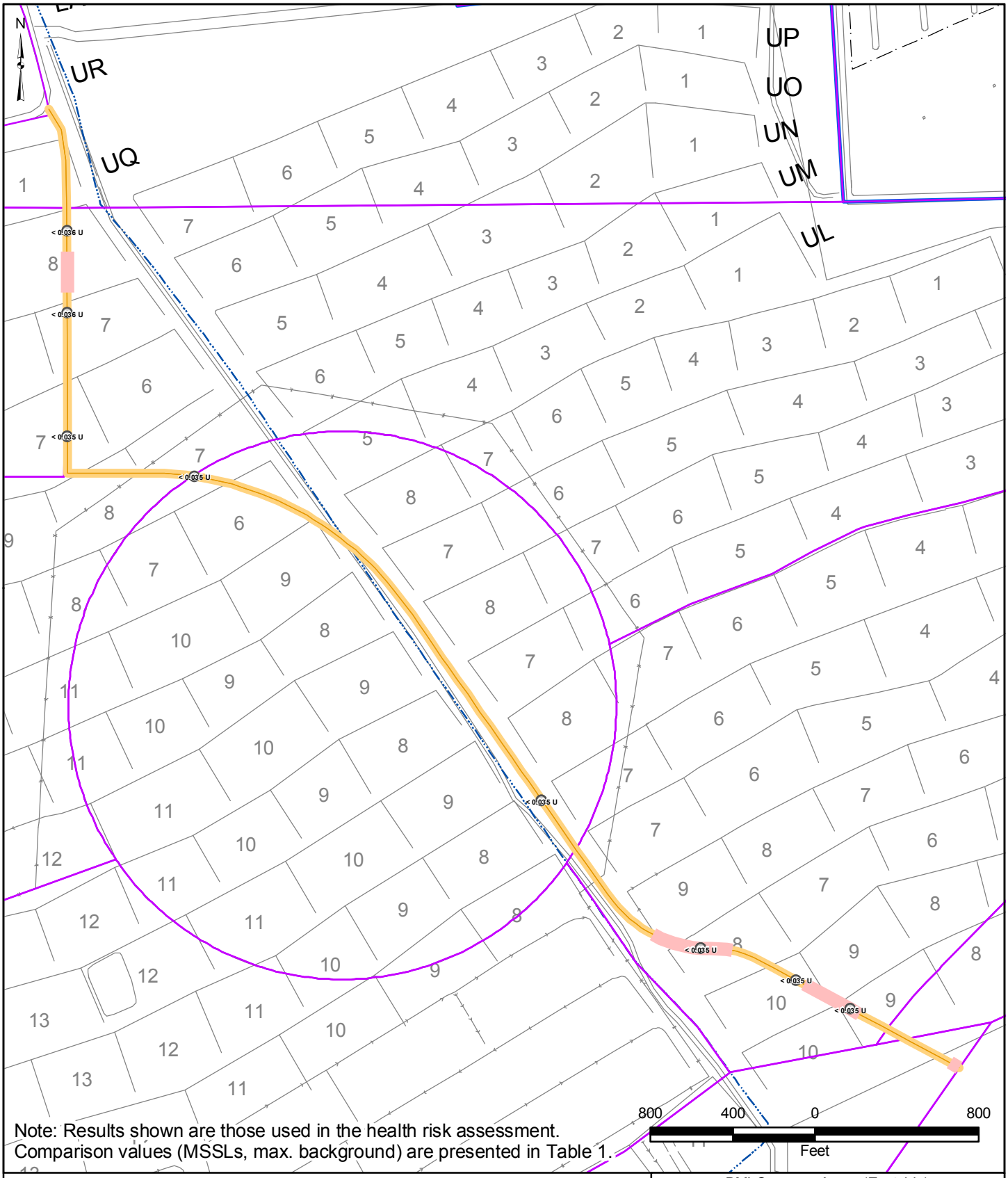
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-75

BENZYL ALCOHOL RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

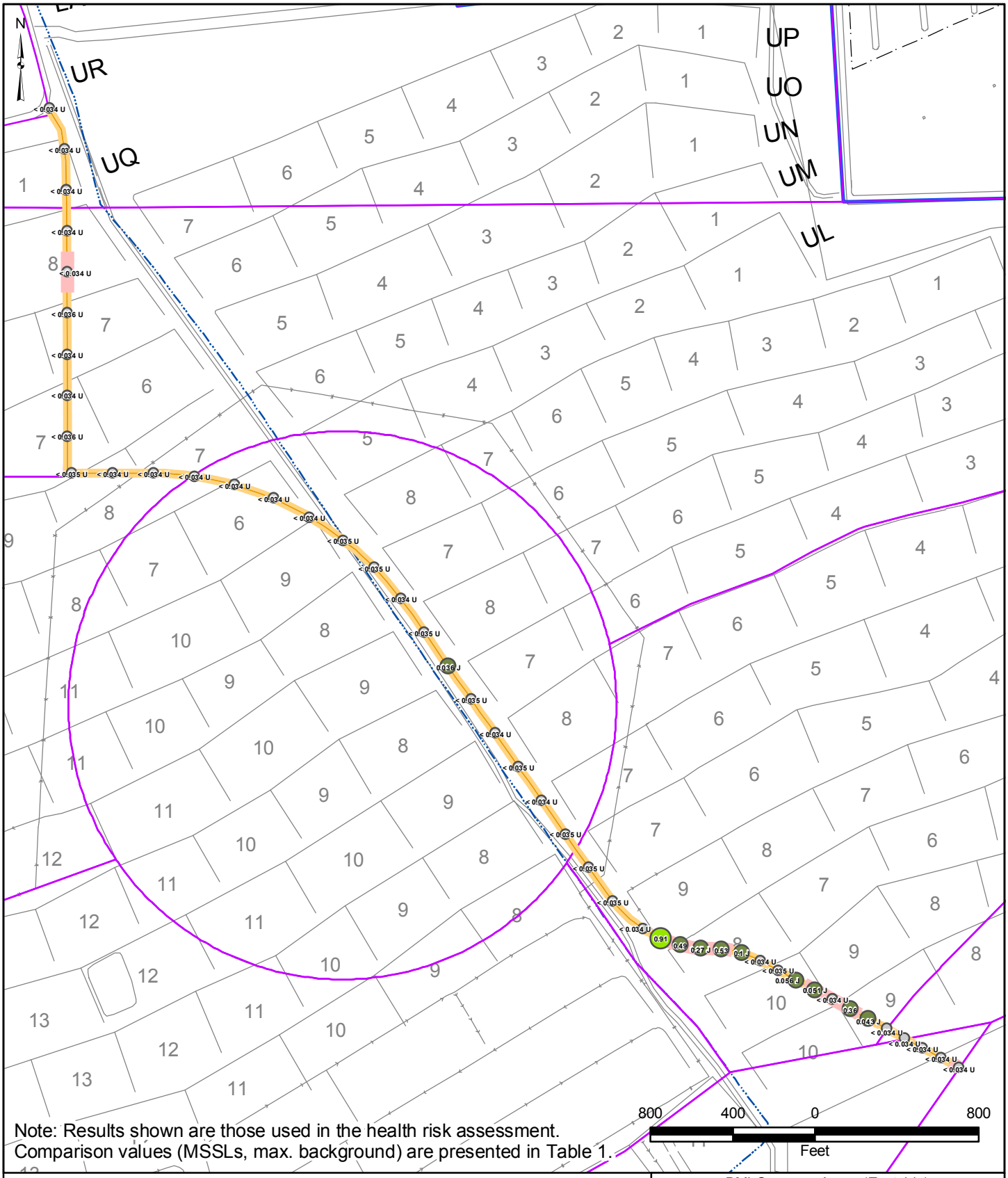
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-76

BENZYL ALCOHOL RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

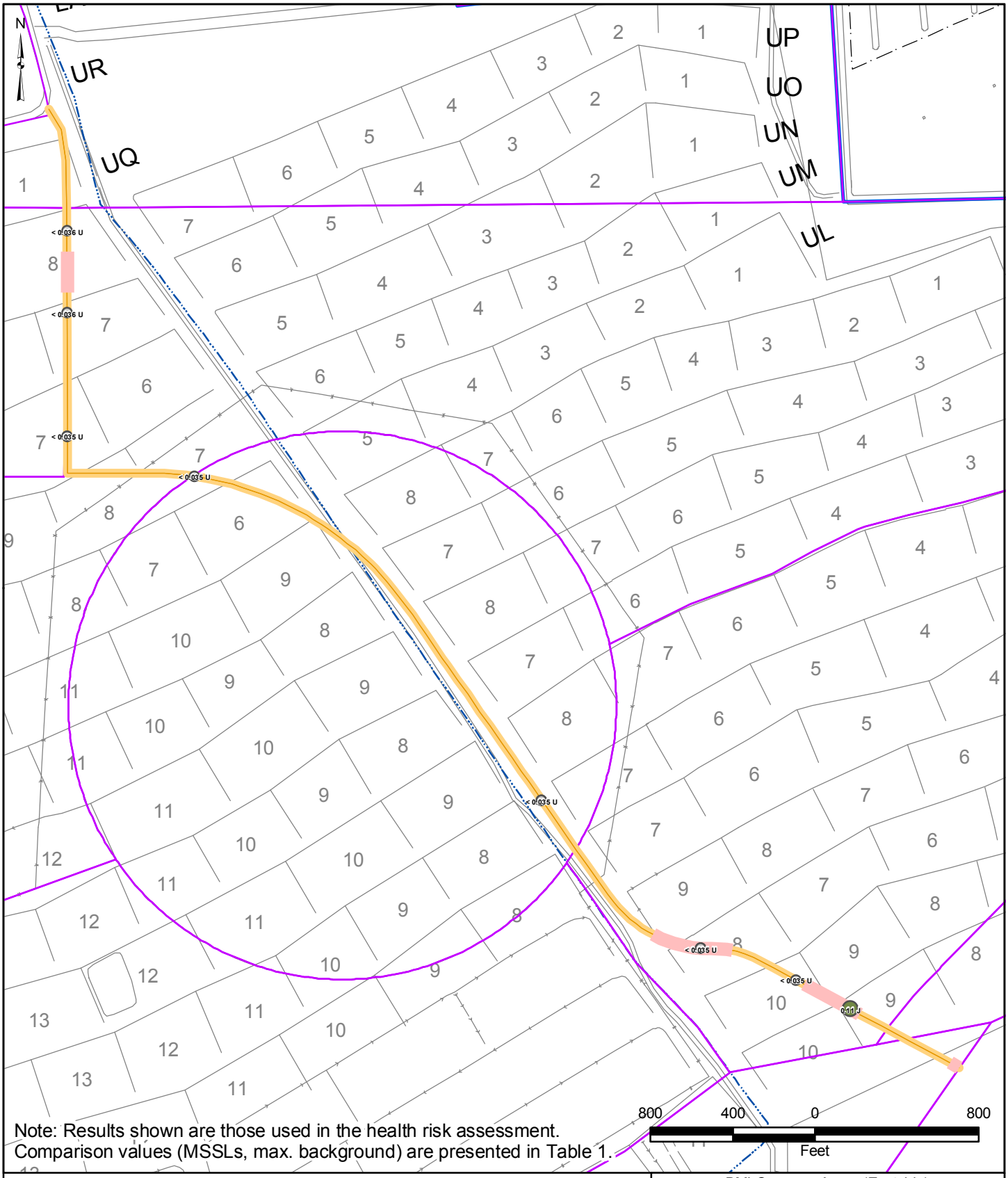
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-77

HEXACHLOROBENZENE RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect/No MSSL
Detect < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL and < 10x MSSL
>= 10x MSSL

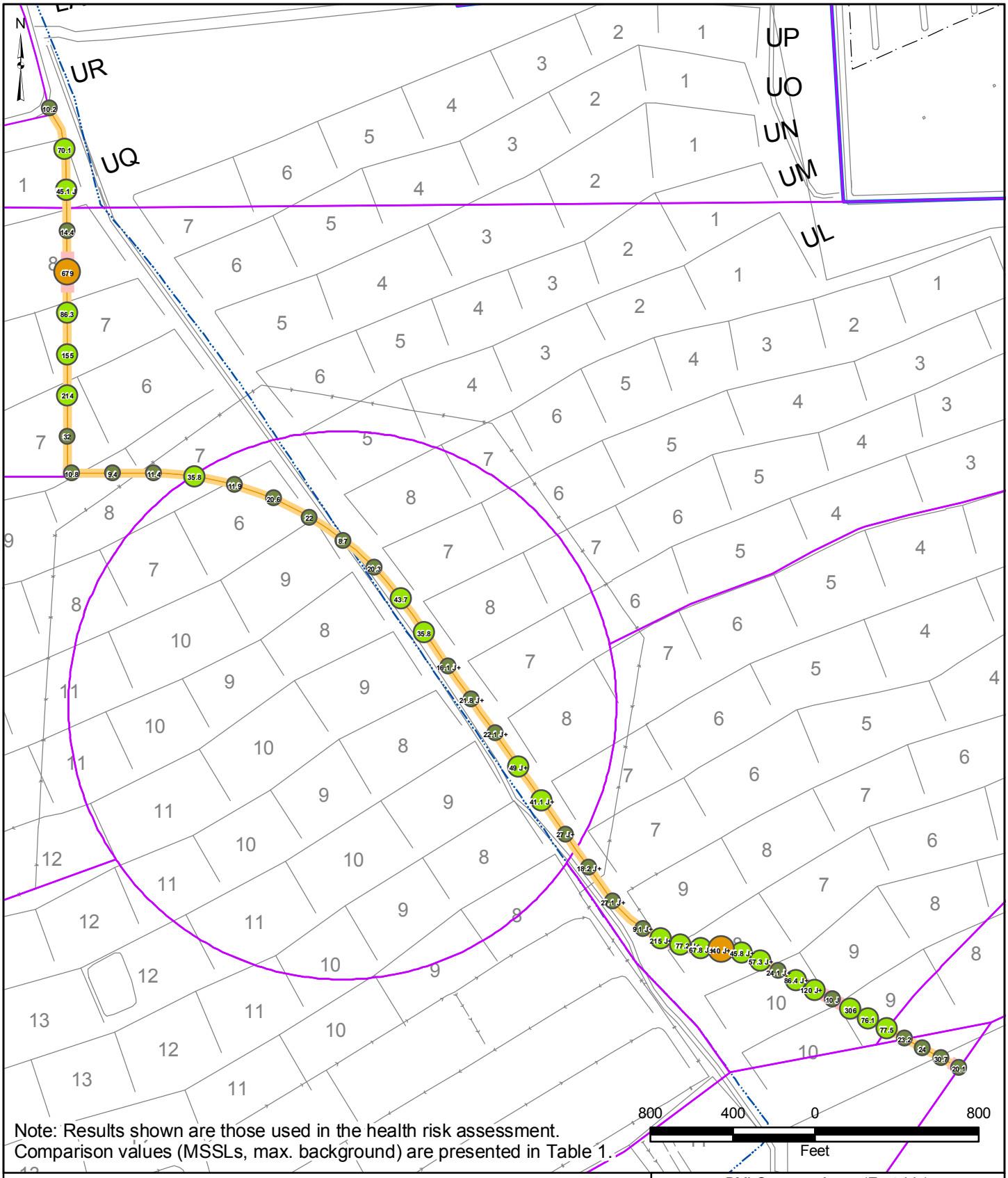
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-78

HEXACHLOROBENZENE RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

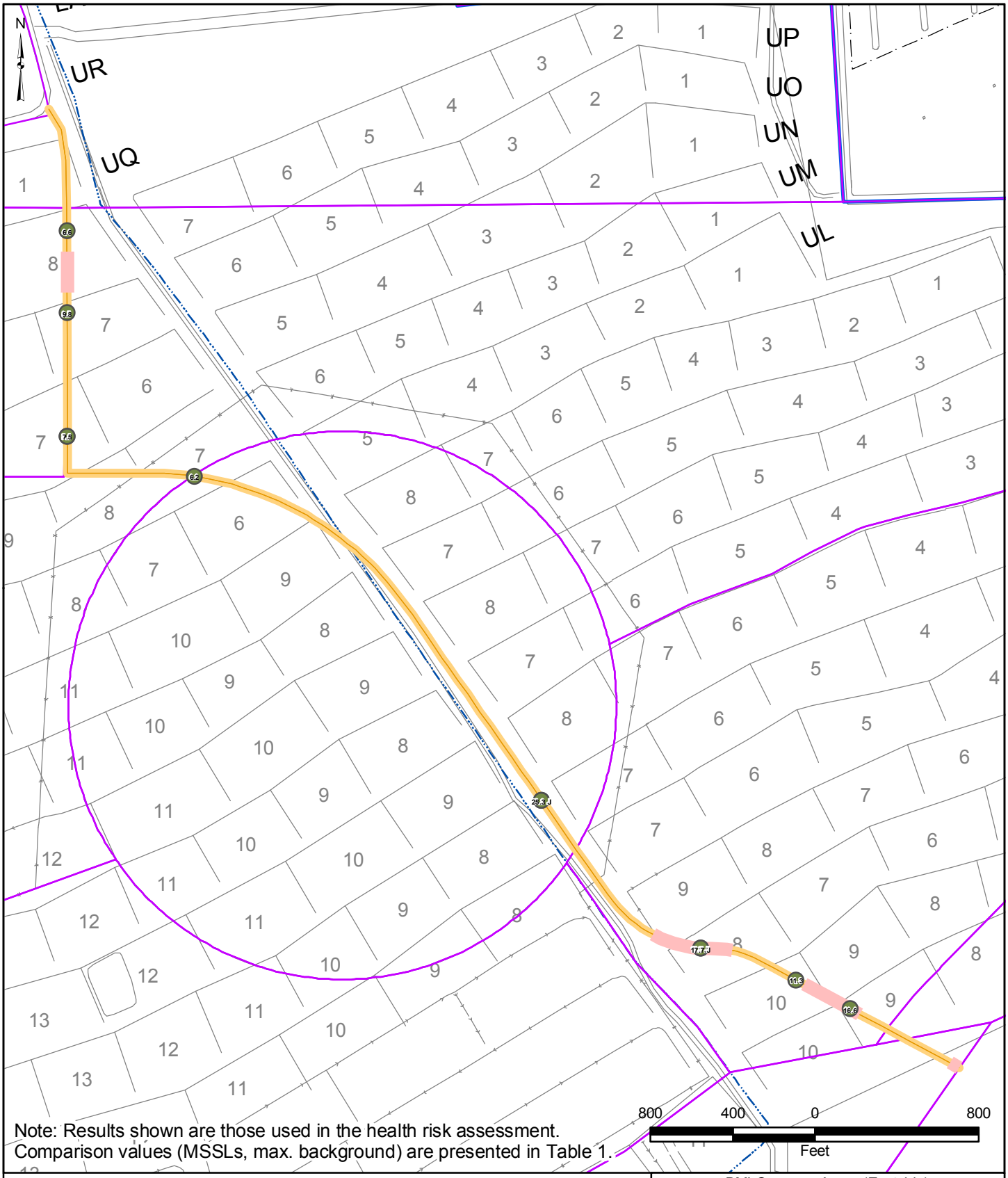
BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-79

LEAD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 0 FT BGS

Basic Remediation COMPANY

Prepared by:	Date	JOB No. 0064276
MKJ	12/03/08	FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD



Note: Results shown are those used in the health risk assessment.
Comparison values (MSSLs, max. background) are presented in Table 1.

Eastside Soil Sub-Areas
Site AOC3 Boundary
Remediation Zones
Sewer Alignment

Non-Detect
Detect < Max. Background
>= Max. Background and < 1/2-Worker MSSL
>= 1/2-MSSL and < MSSL
>= MSSL

BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE D-80

LEAD
RESULTS IN UTILITY CORRIDOR SUB-AREA - 10 FT BGS

Basic Remediation COMPANY

Prepared by: MKJ
Date 12/03/08
JOB No. 0064276
FILE: GIS/BRC/UTILITY_CORRIDOR/ATTACH_D.MXD

ATTACHMENT E

HEALTH RISK ASSESSMENT CALCULATION SPREADSHEETS
(ON CD)