



August 20, 2009  
Project No. 20082449V1

Mr. Ranajit Sahu, C.E.M., Ph.D.  
Basic Remediation Company  
875 West Warm Springs Road  
Henderson, Nevada 89011

**RE: *Galleria North Sub-Area Soil Re-Sampling, Henderson, Nevada***

PROVIDING

- Geotechnical Engineering
- Construction Materials Engineering
- Environmental Engineering
- Drilling Services

Dear Dr. Sahu:

On August 13, 2009, Geotechnical and Environmental Services, Inc. (GES) implemented a sampling program per direction of Basic Remediation Company (BRC). This activity report details the scope of services performed, which consisted of the following:

- August 11 through 12, 2009: Staked and located seventeen (17) sampling locations with a GPS Trimble ProXH Unit. The sample location coordinates were provided by ERM. (see below, Changes to Original Planned Work).
- August 13, 2009: Collected seventeen (17) soil samples from locations throughout the site. Duplicate samples were taken approximately every 10<sup>th</sup> sample, while MS/MSD samples were collected every 20<sup>th</sup> sample. One (1) rinsate sample was taken throughout the sampling event.

GES's scope of services was to implement the field sampling program so that others can evaluate the data resulting from our sampling efforts. Therefore, this report does not provide conclusions regarding the analytes or their levels of occurrence.

### **Field Investigation Methodology**

**Soils** - Soil samples were taken from seventeen (17) locations. Soil samples were logged according to the USCS Classification by a qualified Geologist. In addition, each sample was examined for odors and stains (Appendix A, Figures 4 through 53).

At each sample location and depth interval, the samples were collected in six (6) clean 2.5-inch diameter by 6.0-inch long stainless steel sleeves using standard split spoon sampling techniques. The ends of each sleeve(s) retained for analysis were covered with Teflon sheeting and placed in a sealable ZipLock™ type plastic bag.

Each sample was provided a unique sampling number with the following designation: Sample Location, Depth Interval, Date, and Time. For example, the first sampling location was identified as GNC1-JA04, 8/13/09, 0750, while the final sampling location was identified as GNC1-JA15, 8/11/09. The soil samples were stored in coolers with ice and shipped via FedEx to Test America Laboratories (Earth City, Missouri), and GEL Laboratory (Charleston, South Carolina).

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### Decontamination Procedures

The sampling equipment was decontaminated prior to initial usage and then between each sampling location. Decontamination of sampling equipment (steel scoop pick-ax) consisted of washing prior to initial use and between sample locations using Liquinox™ detergent wash, a potable water rinse, and a final rinse with commercially available distilled water.

### Investigative Derived Waste (IDW)

All Investigative Derived Waste consisted of paper towels used to dry the equipment and equipment decontamination waste (Liquinox laboratory grade detergent and rinse water). Decontamination fluid was minimal and disposed of appropriately.

### Documentation

Documentation of the field activities consists of figures showing the site location (Vicinity Map, Figure 1), sampling locations (Site Map, Figure 2), photographs of representative boring locations (Figure 3). These documents are included as attachments. Copies of the Chain-of-Custodies are also included as attachments.

### Changes to Original Planned Work

During this work the only modifications to the original scope of services a small change to the location of GNC1-JA06. GNC1-JA06 was moved approximately 25-feet southeast of the original location indicated by GPS coordinates. The location was moved due to the original coordinates being located in the middle of an old paved road. GES contacted ERM regarding this location and ERM advised that it would be acceptable to re-locate the sample location off the road.

We appreciate this opportunity to provide our professional services. If you have questions or comment, feel free to contact our office at (702) 365-1001.

Sincerely,  
**Geotechnical & Environmental Services, Inc.**



Richard A. Cooke, C.E.M.  
Project Geologist  
C.E.M. #1820



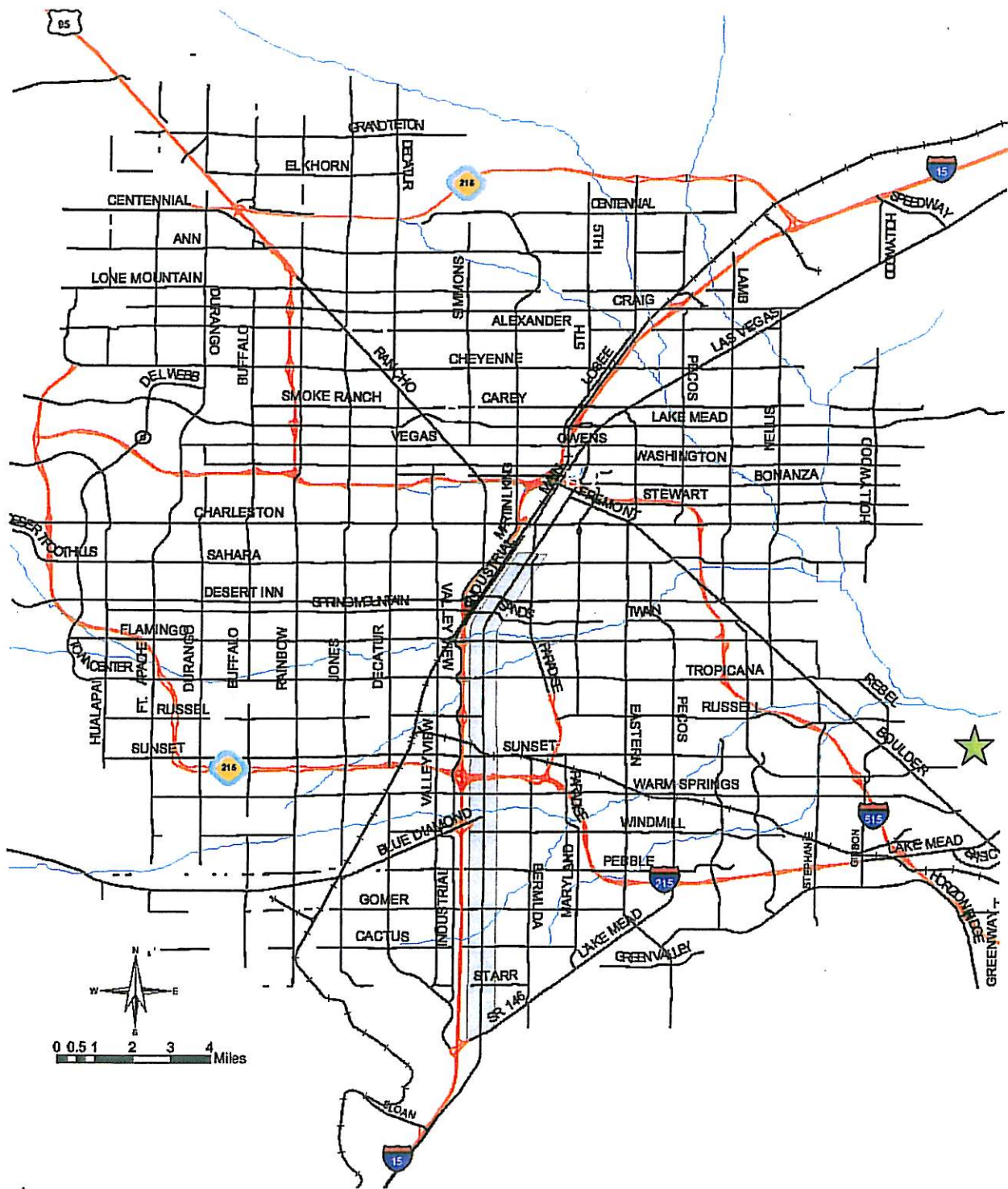
Kyle S. Hansen, C.E.M.  
Environmental Program Manager  
C.E.M. #2167

RAC:KSH:vm:ac

Enc.: Figures 1, 2 and 3  
Chain-of-Custody Records (3)

Dist: 1 pdf copy emailed to client at sahuron@earthlink.net  
1 original mailed to addressee  
1 cc to project file

**FIGURES:  
VICINITY MAP  
SITE MAP  
PHOTOGRAPHS**



★ SITE LOCATION



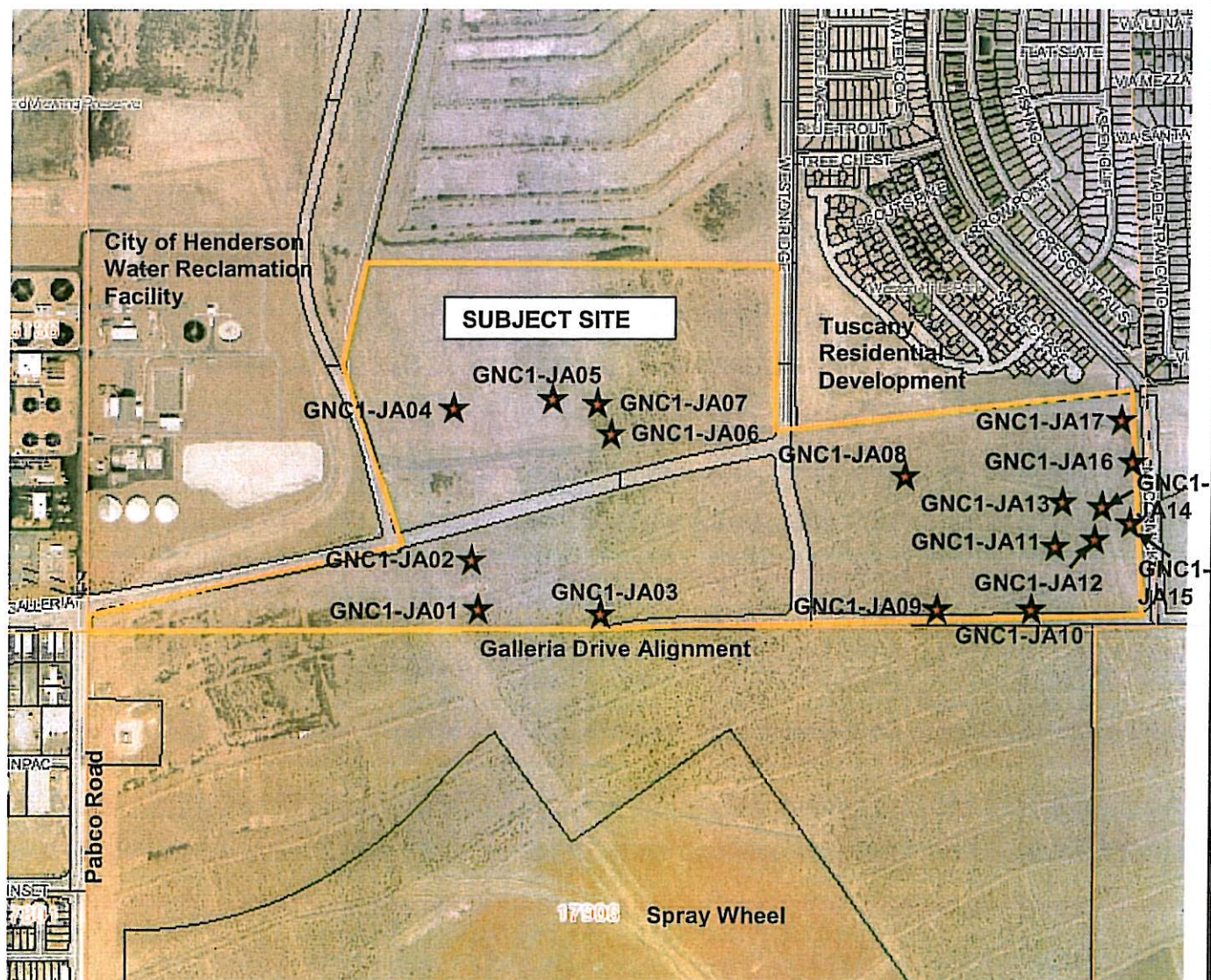
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ENVIRONMENTAL  
SERVICES, INC.  
(702) 365-1001  
7150 Placid Street  
Las Vegas, Nevada 89119

Vicinity Map  
Galleria North Sub-Area Re-Sampling  
Henderson, Nevada

Job #20082449V1

Figure 1





★ Re-Sample Locations

Clark County Nevada  
Southern Nevada GIS  
IM3.7 Aerial Photograph  
Fall 2008-Spring 2008



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Site Map  
Galleria North Sub-Area Re-Sampling  
Henderson, Nevada

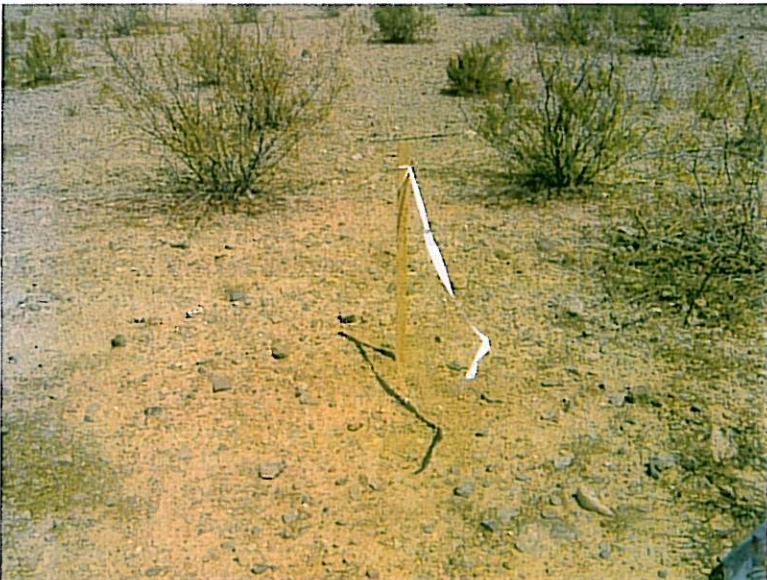
Job #20082449V1

Fig.2





1. GNC1-JA01

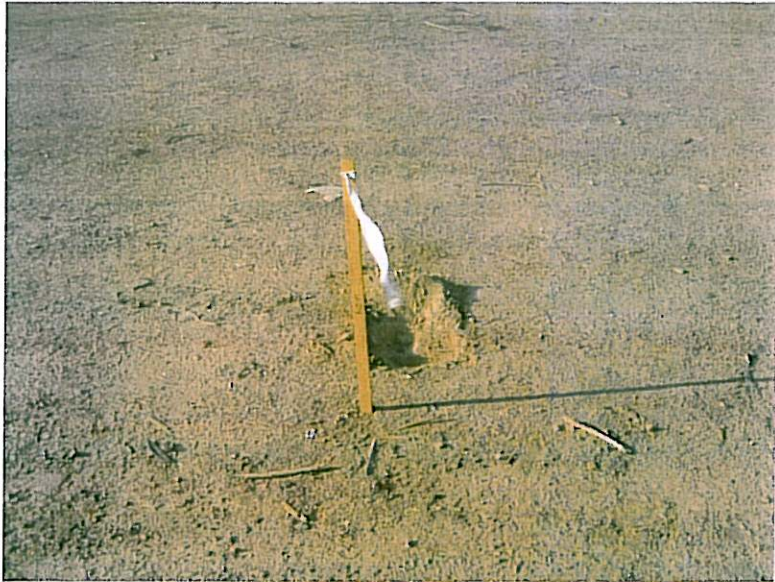


2. GNC1-JA02



3. GNC1-JA03





4. GNC1-JA04



5. GNC1-JA05



6. GNC1-JA07

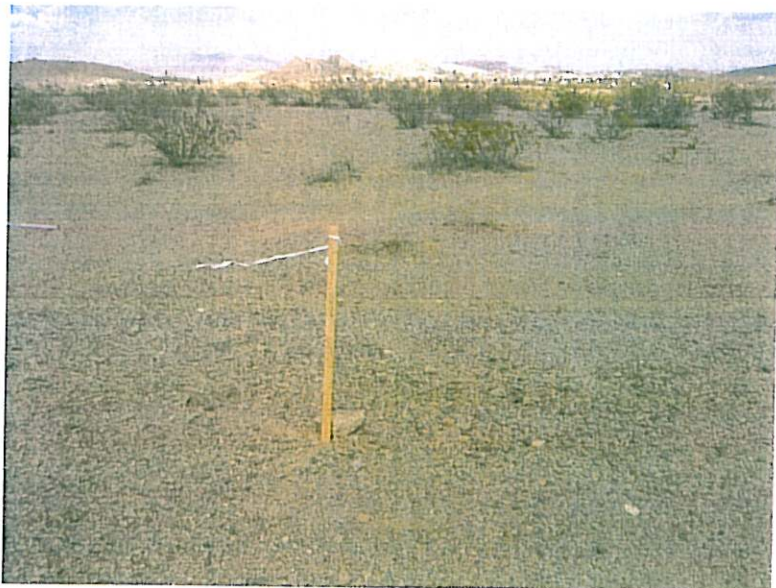


**PROJECT:**  
Galleria North  
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20082449V1  
**FIGURE 3a**  
**Site Photographs**





7. GNC1-JA08



8. GNC1-JA09



9. GNC1-JA10



**PROJECT:**  
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**FIGURE 3b**  
**Site Photographs**

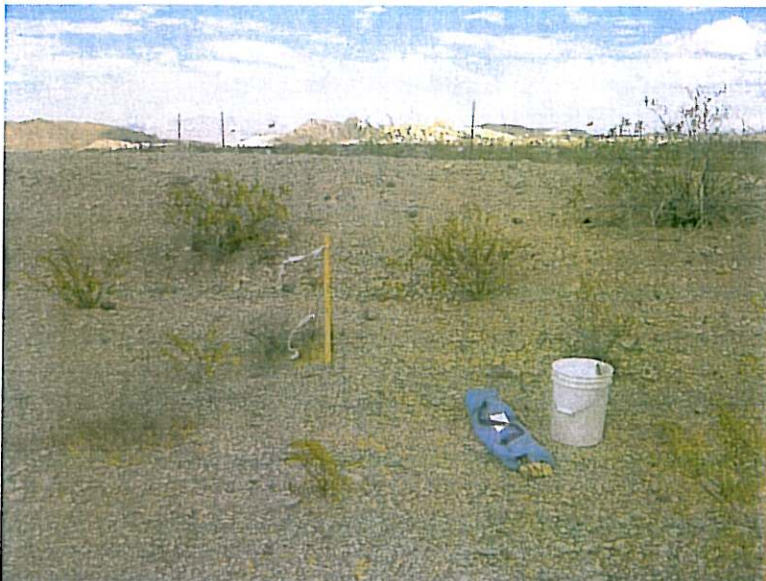




10. GNC1-JA11



11. GNC1-JA12



12. GNC1-JA13

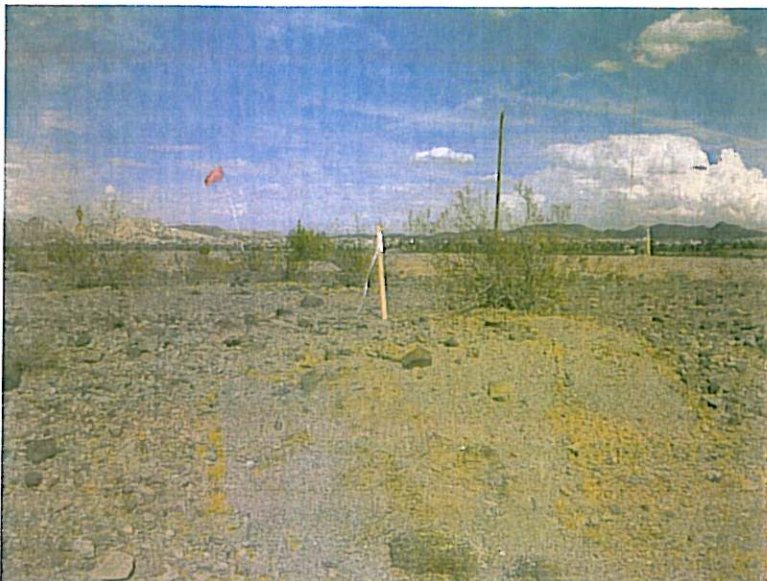




13. GNC1-JA14



14. GNC1-JA15



15. GNC1-JA16



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20082449V1  
**FIGURE 3d**  
**Site Photographs**



## **CHAIN-OF-CUSTODY FORMS**

# ERM CHAIN OF CUSTODY RECORD

Page 1/2

## ERM CONTACT PERSON

Name: Maria Barajas-Albalawi  
Address: 2525 Natomas Park Drive, Suite 350  
Sacramento, CA 95833  
Phone #: (916) 924-9378

LABORATORY: TestAmerica-St. Louis  
Contact Person: Jerry Everett  
Address: 13715 Rider Trail North  
Earth City, Missouri 63045  
Phone: (314) 298-8566

FED EX #: 7978 4701 2524 7968 5966 9936

## SAMPLER(S) PRINTED NAME AND SIGNATURE

Richard Cooke / Richard Cooke

Date: 8-13-09

## ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	Container						IONS* by EPA 300.0	Dioxins/Furans* by EPA 8290	Gen. Chem* (please see methods)	pH by EPA 9045C/9040B	METALS* by EPA Methods 6010B/6020/7471A/7470A	Hex chromium by EPA 7186A	OC Pesticides* by EPA 8081A	Aroclors* by EPA 8082	Congeners* by EPA 1668	Aldehydes* by EPA 8315	VOCs* by EPA 8260B	Physical Parameters 3*	Percent Moisture
			H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	EDA													
GNC1-JA04	8-13-09	0750	X						X				X								
GNC1-JA05	8-13-09	0755	X						X				X								
GNC1-JA07	8-13-09	0805	X						X				X								
GNC1-JA06	8-13-09	0815	X						X				X								
GNC1-JA01	8-13-09	0850	X						X				X								
GNC1-JA02	8-13-09	0900	X						X				X								
GNC1-JA02-FD	8-13-09	0900	X						X				X								
GNC1-JA03	8-13-09	0911	X						X				X								
GNC1-JA08	8-13-09	0930	X						X				X								
GNC1-JA08-M9	8-13-09	0930	X						X				X								

## Comments/Instructions:

\* Please refer to Table 5 (Southern Ribs Sampling: emailed on October 17, 2008)

<sup>1</sup> Analyze at TA-Sacramento

<sup>2</sup> Analyze at TA-Nashville

<sup>3</sup> Analyze at TA-Burlington

<sup>4</sup> Please report results in dry weight, therefore all soil will require % moisture testing.

<sup>5</sup> Extract samples for Aroclors by 8082 only. If sum of the congeners result (method 1668) is greater than 33 ppb, please analyze for aroclors by 8082

Signature:

Print Name:

Company Name/Title:

Date:

Time:

RELINQUISHED BY: Richard Cooke RECEIVED BY: Fed Ex Air Bill 8-13-09 1200

RELINQUISHED BY:

RECEIVED BY:

For Lab Use Only: Sample Condition Upon Receipt:

ORIGINAL: Send with sample (sign only in blue or black ink)

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Page 2/2

# ERM CHAIN OF CUSTODY RECORD

## ERM CONTACT PERSON

Name: Maria Barajas-Albalawi  
Address: 2525 Natomaas Park Drive, Suite 350  
Sacramento, CA 95833  
Phone #: (916) 924-9378

LABORATORY: TestAmerica-St. Louis  
Contact Person: Jerry Everett  
Address: 13715 Rider Trail North  
Earth City, Missouri 63045  
Phone: (314) 298-8566

FED EX #: 79784701 2521, 7968 9966 9936

## SAMPLER(S) PRINTED NAME AND SIGNATURE

*Richard Cooke / Richard Cooke*

Date: 8-13-09

## ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	Container						Gen. Chem* (please see methods)	pH by EPA 9045C/9040B	METALS* by EPA Methods 6010B/6020/7471A/7470A	OC Pesticides* by EPA 8081A	Aroclors* by EPA 8082	Congeners* by EPA 1668	Aldehydes* by EPA 8315	VOCs* by EPA 8260B	Physical Parameters 3*	Percent Moisture										
			H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	EDA																				
GNC1-JA08-MSD	8-13-09	0930	X								X																	
GNC1-JA13	8-13-09	0945	X								X																	
GNC1-JA12	8-13-09	0950	X								X																	
GNC1-JA11	8-13-09	1000	X								X																	
GNC1-JA10	8-13-09	1030	X								X																	
GNC1-JA09	8-13-09	1020	X								X																	
GNC1-JA15	8-13-09	1055	X								X																	
Rinsate-1	8-13-09	1110	X								X																	

## Comments/Instructions:

- \* Please refer to Table 5 (Southern Ribs Sampling: emailed on October 17, 2008)
- <sup>1</sup> Analyze at TA-Sacramento
- <sup>2</sup> Analyze at TA-Nashville
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- <sup>4</sup> Please report results in dry weight, therefore all soil will require % moisture testing.
- <sup>5</sup> Extract samples for Aroclors by 8082 only. If sum of the congeners result (method 1668) is greater than 33 ppb, please analyze for aroclors by 8082

RELINQUISHED BY: *Richard Cooke* Signature: *Richard Cooke* Print Name: *Richard Cooke*

RECEIVED BY: *Federer Bill* Company Name/Title: *EEG/Geologist* Date: *8-13-09* Time: *1700*

RELINQUISHED BY:

RECEIVED BY:

For Lab Use Only: Sample Condition Upon Receipt:

ORIGINAL: Send with sample (sign only in blue or black ink)

COPIES: Retained by Sampler, Sent to Office

ERM CONTACT PERSON

**LABORATORY: GEL Laboratories, LLC**  
Contact Person: Amanda Rasco  
Address: 2040 Savage Road  
Charleston, SC 29407  
Phone: (843) 556-8171

Date: 8-13-09

ANALYSIS REQUEST

Richard Cottle / Richard Cottle

[illegible]

\* Please refer to Table 5 (Southern Ribs Sampling: emailed on November 17, 2008)

Please report results in dry weight.

**Print Name:**

Print Name: Richard Corbett

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Geology

**RELINQUISHED BY:**

RECEIVED BY:

**For Lab Use Only: Sample Condition Upon Receipt:**

**ORIGINAL:** Send with sample (sign only in blue or black ink)

COPIES: Retained by Sampler, Sent to Office