

October 15, 2009 Project No. 20092598V1



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

PROVIDING

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

RE: Galleria North and Sunset North Additional Sampling, Henderson, Nevada

Dear Dr. Sahu:

On September 29, 2009 and September 30, 2009, Geotechnical and Environmental Services, Inc. (GES) implemented a sampling program per the direction of Basic Remediation Company (BRC). This activity report details the scope of services performed, which consisted of the following:

- September 25, 2009: USA Underground utility alert was called in after field marking the project area.
- September 25, 2009: Staked and located fifteen (15) sampling locations with a GPS Trimble ProXH Unit. The sample location coordinates were provided by ERM.
- September 29 September 30, 2009: Collected fifteen (15) samples from fifteen (15) boring locations throughout the sites at depths ranging from 4.0 to 13 feet. A total of two (2) field duplicate samples, one (1) matrix spike/matrix spike duplicate sample and one (1) rinsate sample were 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

<u>Soils</u> - Soil samples were taken from fifteen (15) borings drilled using the hollow stem auger method. The boreholes were initiated using a Diedrich D-50+ Track Drill Rig outfitted with 6-1/2 inch outside diameter hollow stem augers. A California modified split spoon sampler was advanced at least 18 inches per sampling interval by using an autohammer with an equivalent force of a 140-pound hammer falling 30 inches for each blow.

"We Make the Ground Work for You..." 7150 Placid Street Las Vegas, NV 89119 (702) 365-1001 • Fax (702) 341-7120 www.gesnevada.com Basic Remediation Company Project No. 20092598V1 October 15, 2009 Page 2

Soil samples were logged according to the USCS Classification by a qualified Geologist. Boring logs were prepared for the locations drilled (Appendix A, Figures 5 through 7). The soil from each sample interval was also field screened for volatile organic vapors (VOCs) using 10.6 eV and 11.7 eV photoionization detector probes (PIDs). The PID results and any odors or soil staining observed during the course of fieldwork are shown on the boring logs.

At each sample location and depth interval, the samples were collected in two (2) 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. For each sample interval, one sleeve was shipped to Test America Laboratories (Earth City, Missouri) and one sleeve was shipped to GEL Laboratory (Charleston, South Carolina).

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 JP04E-10, 9/29/09, 0647, while the final sampling location was identified as BD25E-10, 9/30/09, 0902. The soil samples were stored in coolers with ice and shipped daily via FedEx to Test America Laboratories and GEL Laboratory.

Soil samples and the breathing zone were monitored by two photoionization detector probes (10.6 eV and 11.7 eV) by GES personnel. The health and safety monitoring effort complied with the *BRC Health and Safety Plan, October, 2005*.

Decontamination Procedures

The drilling equipment and down-hole equipment were decontaminated prior to initial usage and then between each borehole location. Decontamination of drilling equipment consisted of high pressure washing prior to the initial boring. The down-hole equipment was washed between borehole 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 drilling cuttings (soil) and equipment decontamination waste (Liquinox laboratory grade detergent and rinse water). Ground water was not encountered, therefore the drill cuttings were returned to the borehole after the sampling was completed. Decontamination fluid was minimal and disposed of in the boreholes.

Documentation

Documentation of the field activities consists of figures showing the site location (Vicinity Map, Figure 1), boring locations (Site Map, Figure 2 and Figure 3), photographs of representative boring locations (Figure 4) and boring logs for the central boring of each group (Figure 5 through 7). Only one boring log was prepared for each group of borings due to the close proximity of the locations (within 10-feet of the central boring). These documents are included as attachments. Copies of the Chain-of-Custodies and daily safety meeting forms are also included as attachments.

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Changes to Original Planned Work

During this work there were no modifications to the original scope of services.

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.

Rindard a. Coole

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

RAC:KSH:ac Enc.: Figures 1, 2, 3 and 4 Boring Logs (3) Chain-of-Custody Records (4) Tailgate Safety Meeting Forms (2)

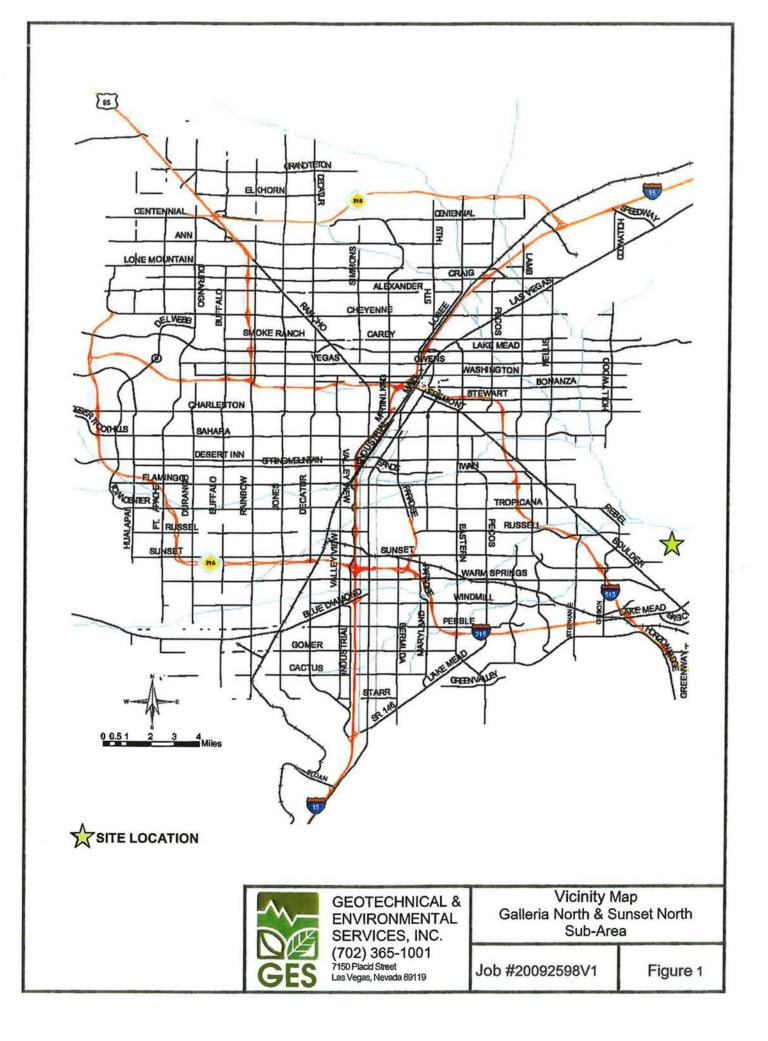
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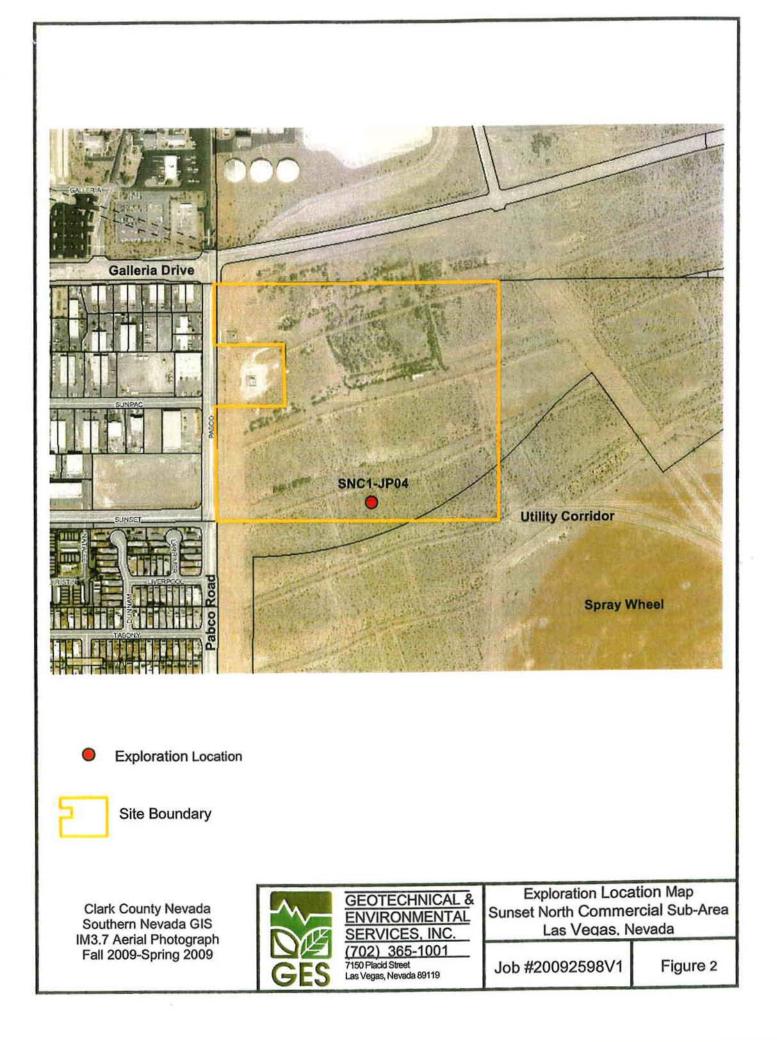
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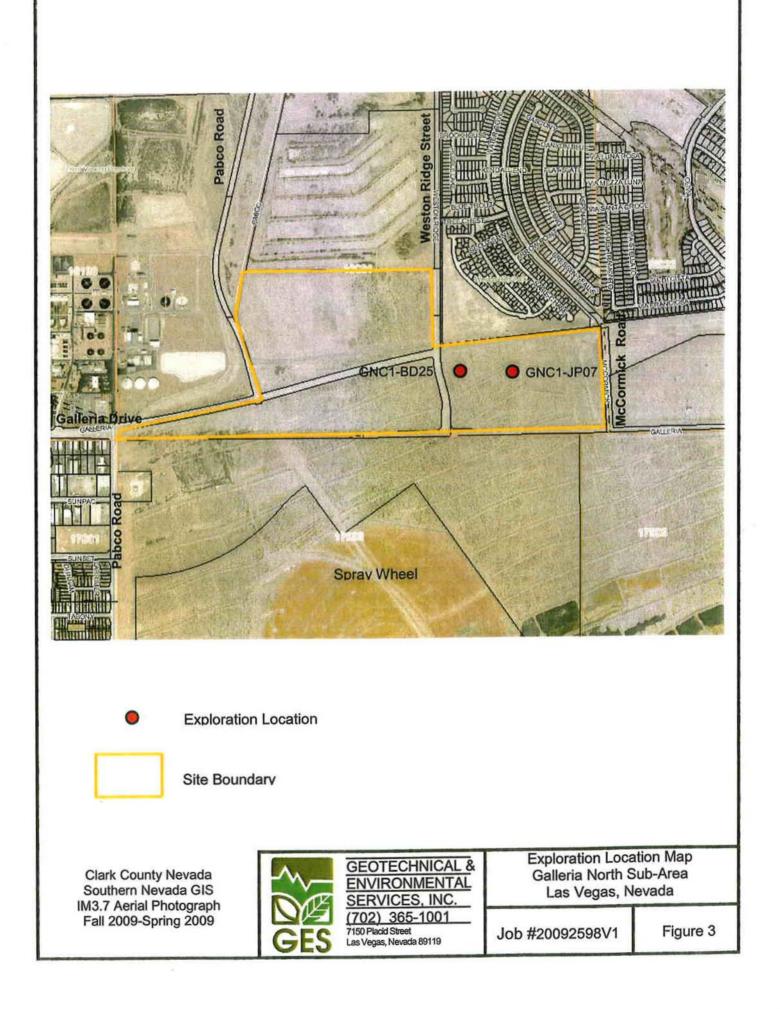
Kyle S. Hansen, C.E.M. Environmental Program Manager C.E.M. #2167

FIGURES: VICINITY MAP EXPLORATION LOCATION MAPS BORING LOGS

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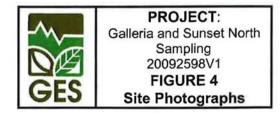




1. Sunset North: View showing JP04 group of borings.

2. Galleria North: View showing JP07 boring group.

3. Galleria North: View showing BD25 borings group.



EXPLORATION LOG SNC1-JP04C

PROJECT: GALLERIA & SUNSET NORTH SAMPLING EXPLORATION LOCATION: HENDERSON, NEVADA EXPLORATION SIZE (dia.): 6 1/4" O.D. H.S. AUGERS ELEVATION: EXISTING GROUND SURFACE PROJECT NO .: 20092598V1

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/DAVIS

INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA DATE MEASURED: NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Ы	П	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- 0 		SM	Light brown (7.5YR 6/3)silty SAND, trace gravel, dry and medium dense.		the eve		vas made		
			exploration log apply only at the specific exploration location and at the nded to be representative of subsurface conditions at other locations o ECHNICAL & ENVIRONMENTAL SERVICES, II		s	Fig	gure No	b. 5	

EXPLORATION LOG GNC1-JP07C

 PROJECT:
 GALLERIA & SUNSET NORTH SAMPLING

 EXPLORATION LOCATION:
 HENDERSON, NEVADA

 EXPLORATION SIZE (dia.):
 6 1/4" O.D. H.S. AUGERS

 ELEVATION:
 EXISTING GROUND SURFACE

PROJECT NO .: 20092598V1

EXPLORATION DATE: 9/29/09 EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/DAVIS

INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA DATE MEASURED: NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Ы	Ц	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
- - - 2.5 - - - - - 5	6 7 19	SM	Light brown (7.5YR 6/3)silty SAND with gravel, dry and medium dense. six-inch thick gravel layer. PIDs: 10.6 eV = 0.0 ppmV; 11.7 eV = 0.0 ppmV.						
	1999999		END OF BORING AT 5.5 FEET						а ^н
- 7.5 - -									
- 10									
-									
- 12.5 - -									
- 15 -									
	The descriptions containe		exploration log apply only at the specific exploration location and at the ided to be representative of subsurface conditions at other locations or ECHNICAL & ENVIRONMENTAL SERVICES, IN		the exp s.	ploration v Fig	vas made. gure No	6	

EXPLORATION LOG GNC1-BD25C

PROJECT: GALLERIA & SUNSET NORTH SAMPLING EXPLORATION LOCATION: HENDERSON, NEVADA EXPLORATION SIZE (dia.): 6 1/4" O.D. H.S. AUGERS ELEVATION: EXISTING GROUND SURFACE PROJECT NO .: 20092598V1

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/DAVIS

INITIAL DEPTH TO WATER: NOT ENCOUNTERED FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA DATE MEASURED: NA

	USCS	DESCRIPTION	æ	Ц	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
-2.5	SM	Light brown (7.5YR 6/3)silty SAND with gravel, dry and medium dense.						
- 5 		six-inch thick gravel layer.					14	-
- 10 - 17 19 50 		PIDs: 10.6 eV = 0.0 ppmV; 11.7 eV = 0.0 ppmV. weakly cemented, dry.						
50/2	ned within this	END OF BORING AT 13.2 FEET exploration log apply only at the specific exploration location and at the nded to be representative of subsurface conditions at other locations o	e time	the exp	ploration v	vas made.		

KEY TO SYMBOLS

Symbol Description

Strata symbols



Silty sand

Soil Samplers

California sampler

Notes:

1. Exploratory borings were drilled on 9/29/09 using 6 1/4-inch outside diameter continuous flight power auger.

2. No free water was encountered at the time of drilling.

CHAIN-OF-CUSTODY FORMS AND TAILGATE SAFETY MEETING FORMS

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ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350 Sacramento, CA 95833

Phone #: (916) 924-9378

FED EX #:

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LABORATORY: TestAmerica-St. Louis Contact Person: Jerry Everett Address: 13715 Rider Trail North Earth City, Missouri 63045

Phone: (314) 298-8566 Date: 4-29-05

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ERM CONTACT PERSON

Name: Maria Barajas-Albalawi Address: 2525 Natomas Park Drive, Suite 350

Sacramento, CA 95833

Phone #: (916) 924-9378

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LABORATORY: TestAmerica-St. Louis Contact Person: Jerry Everett Address: 13715 Rider Trail North Earth City, Missouri 63045

Phone: (314) 298-8566 Date: 7-25-58

ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

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

Phone #. (910) 924-

FED EX #: Date: 9-30-09 SAMPLER(S) PRINTED NAME AND SIGNATURE ANALYSIS REQUEST Darg Daws Du Du. EPA 314.0 PERCENT MOISTURE PERCHLORATE* by E SVOCs* by 8270 PAH'S* by 8270SIM PROJECT NAME: OPEN SPACE SUB AREA Gallevia & Sunset North RADIONUCLIDES PROJECT NUMBER: 20092586V1 2009259EV1 Container ZnAc/NaOH H2SO4 HNO3 HCI Unpres NaOH EDA TIME DATE SAMPLE ID X X 9-30-08 RD255-10 0641 X BD 25C -10 5-30-09 0720 X BD25W-10 9-30-08 0752 K 0430 BD25N-10 9-30-09 9-30-09 0902 X X RD 25E-10 0945 200 4 12-093003 9-30-09 Comments/Instructions: Mooro-orom Reader openered to in the sight. pe Signature: Print Name: Company Name/Title: Date: Time: RELINQUISHED BY: Dar 6 Davis 63/620 5-25-01 1700 RECEIVED BY: 30 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

LABORATORY: GEL Laboratories, LLC

Contact Person: Amanda Rasco Address: 2040 Savage Road Charleston, SC 29407

Phone: (843) 556-8171

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ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350 Sacramento, CA 95833

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Phone #: (916) 924-9378

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LABORATORY: TestAmerica-St. Louis Contact Person: Jerry Everett

Address: 13715 Rider Trail North Earth City, Missouri 63045 Phone: (314) 298-8566 Date: 9-30-69

TAILGATE SAFETY MEETING FORM
Date: <u>9-25-09</u> Time: <u>0630</u> Job Number: <u>2009 253EV1</u> Client: <u>BRC</u>
Site Specific Location:
Safety Topics Presented
Protective Clothing/Equipment: Level DPE
Chemical Hazards: Residual chemicals/wetals in soil - see
Physical Hazards: Heat, slip, trip, Falls
Special Equipment:
Other: Some wild like - biting insects snakes, Coyotes.
Emergency Procedures: Call 911
Hospital: <u>S7. Rose</u> Phone: Ambulance Phone: <u>911</u>
Hospital Address and Route: Builder they and Lake Mead.
ATTENDEES
Dous Davis Client Bickom Louardo LUIS
Meeting Conducted By: Doug Party
On-Site Safety Officer: Doug Davis Project Manager: Kichard Cooke

Basic Remediation

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TAILGATE SAFETY M	EETING FORM
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Date: 4-3V-09 Time: 0630 Job Number: 2008255841
Client:
Site Specific Location: Callenc & Sruset
Safety Topics Presented
Protective Clothing/Equipment: Level DPE
Chemical Hazards: Residual chemicals/wetals in soil - see
Physical Hazards: 1teg L, slip, trip, Falls,
Special Equipment:
Other: Some vildlike - bing insects snakes, Coyotes.
Emergency Procedures: <u>Call 911</u>
Hospital: <u>S7. Pase</u> Phone: Ambulance Phone: <u>911</u>
Hospital Address and Route: Builder they and Lake Mead.
ATTENDEES
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Meeting Conducted By: Dors Davis June
Name Printed Signature
On-Site Safety Officer: Durs Dars Project Manager: Richal Cooke
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Basic Remediation

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