ADR Environmental Group, Inc.

SUBSURFACE INVESTIGATION REPORT

FOR

GOLDEN GATE SIGN COMPANY
711 Independent Road
Oakland, California 94621

Project Number: GGSC 01-12-001-CA

December 26, 2012

Prepared For

Golden Gate Sign Company, Inc.
711 Independent Road
Oakland, California 94621

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Due Diligence and Risk Management Services Nationwide

EP

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1 INTRODUCTION

ADR Environmental Group, Inc. (ADR) is pleased to present this report describing the results of a subsurface investigation conducted at the Golden Gate Sign Company located at 711 Independent Road in Oakland, California (subject Property; Figure 1). Given the historic industrial occupancy of the site that has included the storage and usage of petroleum hydrocarbons, solvents, and flammable materials and the generation of hazardous wastes, ADR conducted a subsurface investigation to determine whether groundwater beneath the site had been adversely impacted by the presence of volatile organic compounds (VOCs). Fieldwork was conducted on October 29 and December 12, 2012, in accordance with an ADR proposal dated October 9, 2012.

This report includes a summary of site background information, a description of the soil boring advancement, soil and groundwater sample collection methods, the results of laboratory analyses, and ADR's conclusions and recommendations. The soil borings were advanced and soil and groundwater samples collected under the supervision of ADR geologist Steve Ashe. The project was managed under the general direction of California Professional Geologist Larry A. Flora and was coordinated by ADR Project Manager Kevin F. Gallagher.

2 BACKGROUND

2.1 Site Description

The subject Property, consisting of a warehouse, paint department, and associated office space, is located in a mixed commercial/light industrial area of Oakland. The subject Property is currently occupied by the Golden Gate Sign Company, a manufacturer of electric signs. The subject Property totals approximately 2 acres developed with a single-story building that totals approximately 13,920 square feet. The remaining portion of the subject Property consists of asphalt paved parking areas, concrete walkways, and landscaped areas. Vehicle access onto the site is provided from a driveway off independent Road to the southeast. The elevation of the subject Property is approximately 10 feet above mean sea level with a southwesterly topographic gradient.

2.2 Previous Environmental Investigation

In July 2012, AEI Consultants (AEI) prepared a *Phase I Environmental Site Assessment* (ESA) for the property located at 711 Independent Road in Oakland, California. From a review of historical documents, it was determined that the subject Property was previously occupied by the ACME Fixture Company Store between 1955 and 1997. The subject Property has been occupied by the Golden Gate Sign Company since at least 2000. Prior to development, the subject Property was vacant marshland. AEI's assessment revealed the following Recognized Environmental Condition (REC) associated with the subject Property:

- According to files with the Oakland Fire Department, the ACME Fixture Company Store formerly handled toxic materials and/or flammable materials including toluene, naphthalene, acetone, lacquer thinner, and paint strippers. Although no significant violations were noted for the historical use of toxic and/or flammable materials, the site has been utilized for industrial purposes since the building was originally constructed in 1955. During site reconnaissance, hazardous and/or flammable materials consisting of water-based lubricants, latex paint, a chlorinated cleaning solvent, latex paint waste, methanol, paint thinners, and two five-gallon gasoline containers were observed in connection with manufacturing of electric signs and automobile fueling. These materials were stored within the warehouse portion of the building and the storage yard east of the building. AEI also observed a spray paint booth within the subject Property warehouse. Staining typical of a spray pain booth was present, although no oily staining was evident. AEI concluded that solvents, even when properly stored and disposed of, can be frequently released into the subsurface through cracked concrete and sewer systems. AEI recommended a subsurface investigation to determine if the subsurface of the subject Property had been adversely impacted by the use of chlorinated solvents.

2.3 Geologic and Hydrogeologic Setting

The subject Property is located within the Coast Ranges geomorphic province, which includes the San Francisco Bay and northwest-trending mountains that parallel the coast of California. These features were formed by tectonic forces resulting in extensive folding and faulting of the area. The oldest rocks in the area include sedimentary, volcanic, and metamorphic rocks of the Franciscan Complex, and sandstone, shale, and conglomerate of the Great Valley Sequence. These units are Jurassic to Cretaceous in age and form the basement rocks in the region.

Site-specific groundwater information was not available for the subject Property. However, based on review of information obtained from the State Water Resources Control Board's *Geotracker* website, groundwater depths at a leaking underground storage tank (LUST) site, located approximately 100 feet southeast of the subject Property, have seasonally ranged from 4 to 5 feet below ground surface (bgs) with an estimated flow direction ranging from south to southeast.

3 SCOPE OF WORK

In accordance with ADR's October 9 and November 16, 2012 proposals, ADR conducted a soil boring investigation to assess the presence or absence of VOCs in groundwater beneath the subject Property. The actual work performed was modified from the proposed scope of work due to field conditions. Although ADR's proposal called for the collection of groundwater samples from each of the proposed soil borings, drill rig refusal at 5 feet bgs in soil boring B-8 precluded the collection of a groundwater sample from this borehole. The completed scope of work included the following:

- Preparation of a site-specific health and safety plan.
- Identification of underground utilities in the area.
- Advancement of direct push soil borings B-1 through B-12 to depths ranging from 5 to 13 feet bgs. Soil samples were collected from each boring at depths of 5 feet or less as the borings were advanced. Soil samples collected were screened in the field for the presence of organic vapors with a portable photoionization detector (PID).
- Collection of a "grab" groundwater sample from soil borings B-1 through B-7 and B-9 through B-12.
- Abandonment of each soil boring, after collection of the soil and/or groundwater samples, by filling each borehole completely with a neat cement grout and, if appropriate, patching the surface to match the surrounding surface material.
- Analysis of the soil sample collected at 5 feet bgs from boring B-8 and the groundwater samples collected from borings B-1 through B-7 and B-9 through B-12 by a California certified analytical laboratory for VOCs using EPA Method 8260B. Additionally, groundwater samples collected from borings B-1 and B-5 were analyzed for total dissolved solids (TDS) using EPA Method 160.1.
- Preparation of this report summarizing the findings of the investigation.

4 FIELD WORK AND OBSERVATIONS

On October 29, 2012, ADR directed the advancement of soil borings B-1 through B-8 at the locations shown in Figure 2. Soil borings B-1 through B-4 were located within the eastern storage yard and soil borings B-5 through B-8 were situated in areas of solvent storage within the warehouse building. Because VOCs, primarily MTBE, were subsequently detected in the groundwater samples collected from borings B-1 through B-7 (see Table 2), ADR was authorized to advance four additional soil borings (designated B-9 through B-12) to further characterize the lateral extent of MTBE and other fuel related groundwater contamination beneath the site. On December 12, 2012, soil borings B-9 through B-12 were located within the paint department building and borings B-11 and B-12 were located hydraulically upgradient of the warehouse and paint department buildings in an undeveloped area of the subject Property. Soil borings B-1 through B-12 were advanced with a track-mounted direct push drill rig equipped with a hydraulic percussion hammer, owned and operated by Vironex, a California licensed water well driller from Concord, California. The soil borings were advanced to depths ranging from 5 to 13 feet bgs. Soil boring B-8 was terminated at 5 feet bgs due to drill rig refusal. A detailed description of the methods used to drill, sample, and log the soil borings are described in Appendix A.

Soil samples were collected from soil borings B-1 through B-7 and B-9 through B-12 at depths of 5 and 10 feet bgs. A single soil sample was collected at 5 feet bgs from boring B-8. The soil samples were collected as the borings were advanced into the undisturbed soil with a "large bore" sampler containing an acrylic tubing liner. After sampler retrieval, soil retained for possible chemical analysis was collected from a bottom section of the recovered acrylic tubing, other sections of the samples were used for soil classification (in accordance with the guidelines of ASTM D-2487-85), and PID screening.

Subjective field observations of soil samples did not indicate the presence of staining or odors in any of the recovered soil samples. Screening of the recovered soil samples in the field using a PID did not indicate the presence of organic vapors.

Soil encountered in borings B-1 to B-12, to a depth of approximately 13 feet bgs, consisted of dark gray, reddish brown, and olive green, moist to very moist, sandy and/or silty clay. Groundwater was initially encountered in soil borings B-1 through B-7 and B-9 through B-12 at depths ranging from 5 to 6 feet below grade. Soil boring B-8, terminated at 5 feet bgs, did not encounter groundwater. Soil boring logs describing soil types encountered in each borehole are contained in Appendix B.

Once groundwater was encountered in boring B-1 through B-7 and B-9 through B-12 (at depths ranging from 5 to 7 feet bgs), to facilitate groundwater collection, 3/4-inch diameter PVC casing and screen was installed into the open boreholes. A grab groundwater sample was subsequently collected from each boring using dedicated polyethylene bailers.

Soil and groundwater samples collected were labeled and placed in an iced chest for delivery to the analytical laboratory.

After the total depth of each soil boring was reached, and soil and groundwater samples were collected, each borehole was abandoned by filling completely with neat cement slurry. The surface materials around each boring were patched to match the existing surface cover.

5 RESULTS OF LABORATORY ANALYSES

ADR submitted a total of 19 soil samples and 11 groundwater samples to Alpha Analytical, Inc., a State of California Department of Health Services (DHS) certified environmental laboratory, located in Sparks, Nevada. Since ADR was unable to retrieve a groundwater sample from boring B-8 (drill rig refusal), the soil sample collected at the termination depth of 5 feet was analyzed for VOCs using EPA Method 8260B. Those soil samples not analyzed were archived by Alpha for future analysis, if warranted. Groundwater samples collected from soil borings B-1 through B-7 were analyzed for full list VOCs using EPA Method 8260B and the groundwater samples collected from soil borings B-9 through B-12 were analyzed for VOCs as methyl tert-butyl ether (MTBE) and benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8260B. To assess the general suitability of the underlying groundwater for beneficial use the groundwater samples collected from borings B-1 and B-5 were be analyzed for TDS using EPA method 160.1. Soil and groundwater sample analytical results are compiled in Tables 1 and 2. Copies of the certified laboratory analytical reports and chain-of-custody documentation are contained in Appendix C.

TABLE 1
Soil Sample Analytical Results, VOCs
711 Independent Road
Oakland, California
Concentrations in micrograms per Kilogram (µg/Kg)

Soil Boring and Sample Number	Sample Depth (feet)	PCE[1]	TCE[2]	MTBE[3]	Remaining VOCs[4] including BTEX[5]
B-8-1	5	<20[6]	<20	<5.0	ND[7]

PCE[1] = Tetrachloroethene
TCE[2] = Trichloroethene
MTBE[3] = Methyl tert-butyl ether
VOCs[4] = Volatile Organic Compounds
BTEX[5] = Benzene, Toluene, Ethylbenzene, Xylenes
<20[6] = Compound not detected at the indicated detection limit
ND[7] = Compound not detected; refer to Appendix C for compound detection limits

As illustrated in Table 1, VOC compounds, including the solvents tetrachloroethene (PCE) and trichloroethene (TCE), fuel oxygenate MTBE, and BTEX hydrocarbon aromatics were not detected in the soil sample analyzed from boring B-8.

TABLE 2
Groundwater Sample Analytical Results, VOCs and TDS
711 Independent Road
Oakland, California
VOC Concentrations in micrograms per Liter (µg/L)
TDS Concentrations in milligrams per Liter (mg/L)

Soil Boring and Sample Number	Sample Depth (feet)	TDS[1]	MTBE[2]	Ethyl benzene	m,p-Xylenes	o-Xylenes	Remaining VOCs[3]
B-1w	5	**680**	**4.2**	**0.75**	**2.5**	**1.4**	ND[4]
B-2w	5	NA[5]	**8.4**	<0.50[6]	<0.50	<0.50	ND
B-3w	5	NA	**8.1**	<0.50	<0.50	<0.50	ND
B-4w	5	NA	**57**	<0.50	<0.50	<0.50	ND
B-5w	5	**2,700**	**3.3**	<0.50	<0.50	<0.50	ND
B-6w	5	NA	**1.5**	<0.50	<0.50	<0.50	ND
B-7w	7	NA	**7.8**	<0.50	<0.50	<0.50	ND
B-9w	6	NA	**150**	<1.0	<1.0	<1.0	ND
B-10w	6	NA	<1.0	<1.0	<1.0	<1.0	ND
B-11w	6	NA	**8.1**	<1.0	**1.5**	<1.0	ND
B-12w	6	NA	<1.0	<1.0	<1.0	<1.0	ND
Regulatory Standard Comparisons							
ESLs[7]		NSL[8]	**5**	**30**	NSL	NSL	-
MCLs[9]		NSL	**13**	**300**	NSL	NSL	-

TDS[1] = Total dissolved solids
MTBE[2] = Methyl tert-butyl ether
VOCs[3] = Volatile Organic Compounds
ND[4] = Compound not detected; refer to Appendix C for compound detection limits.
NA[5] = Not Analyzed
<0.50[6] = Compound not detected at indicated detection limit
ESLs[7] = Commercial/Industrial Environmental Screening Levels (San Francisco Bay Regional Water Quality Control Board) for groundwater.
NSL[8] = No screening level established.
MCLs[9] = California Department of Health Services Maximum Contaminant Level (MCL) for drinking water.

Laboratory results, summarized in Table 2, indicates that MTBE (a typical gasoline fuel additive) was detected in the groundwater samples collected from borings B-1 through B-7 and B-9 and B-11 at concentrations ranging from 1.5 to 150 micrograms per Liter (µg/L). The highest concentration was reported in the groundwater sample collected from boring B-9, located in the paint department building. Additionally, petroleum aromatic hydrocarbons ethylbenzene, m,p-xylene, and o-xylenes were reported in the groundwater sample collected from soil boring B-1 at concentrations of 0.75, 2.5, and 1.4 µg/L, respectively. M,p-xylenes were also detected at a concentration of 1.5 µg/L in the groundwater sample recovered from boring B-11. The remaining VOC compounds were not detected in any of the groundwater samples collected. The groundwater samples collected from soil borings B-1 and B-5 and analyzed for TDS indicated concentrations of 680 and 2,700 milligrams per Liter (mg/L), respectively.

For comparison purposes, the last two rows of Table 2 contain examples of Environmental Screening Levels (ESLs) established by the California Regional Water Quality Control Board, San Francisco Bay (RWQCB-SF) as allowable petroleum hydrocarbon and VOC concentrations for groundwater where groundwater is a current or potential source of

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drinking water and the drinking water primary Maximum Contaminant Level (MCL) established by the California Department of Health Services (DHS).

6 SUMMARY AND CONCLUSIONS

On October 29 and December 12, 2012, ADR directed the advancement soil borings B-1 through B-12 at the locations shown in Figure 2. The soil profile encountered in the soil borings, to a depth of 13 feet below grade, consisted of dark gray, reddish brown, and olive green, moist to very moist, sandy and/or silty clay. Groundwater was initially encountered in soil borings B-1 through B-7 and B-9 through B-12 at depths ranging from 5 to 7 feet below grade.

Subjective field observations of soil samples did not indicate the presence of staining or odors in any of the recovered soil samples. Screening of the recovered soil samples in the field using a PID did not indicate the presence of organic vapors.

Soil analytical results indicate that VOCs were not detected in the soil sample collected at a depth of 5 feet bgs from boring B-8.

Groundwater analytical results indicate that MTBE and/or ethylbenzene, m,p-xylenes, and o-xylenes (typical components of gasoline) were detected in the groundwater samples collected from soil borings B-1 through B-7 and B-9 and B-11. The highest concentration of MTBE (150 µg/L) was detected in groundwater sample collected from boring B-9, located within paint department building. Lower concentrations of MTBE (ranging from 1.5 to 57 µg/L) were reported in the groundwater samples collected from boring B-1, B-2, B-3, B-5, B-6, B-7, and B-11. VOCs, including MTBE, were absence in the groundwater collected from soil borings B-10 and B-12, located hydraulically upgradient from boring B-9 (showing the highest MTBE concentration). Motor fuel compounds ethylbenzene, m,p-xylenes, and o-xylenes were detected in the groundwater samples collected from borings B-1 and B-11 at concentrations ranging from 0.75 to 2.5 µg/L. As illustrated in Table 2, the concentrations of MTBE detected in the groundwater samples analyzed from borings B-2, B-3, B-4, B-7, B-9, and B-11 exceed the established RWQCB-SF ESL and/or DHS primary drinking water MCLs concentration limit for MTBE of 5 and 13 µg/L, respectively. The concentration of ethylbenzene reported in the groundwater sample collected from boring B-4 does not exceed the RWQCB-SF ESL and/or the DHS primary drinking water MCL concentration limits for ethylbenzene of 30 and 300 µg/L, respectively. There are no screening levels established by the RWQCB-SF or DHS for m,p-xylenes and o-xylenes. The groundwater samples collected from soil borings B-1 and B-5 detected TDS at concentrations of 680 and 2,700 mg/L, respectively. The RWQCB-SF considers groundwater throughout the San Francisco Bay area as a "potential domestic supply" provided TDS levels do not exceed 3,000 mg/L.

Based on the field investigation documented in this report, it is likely that the identified MTBE, ethylbenzene, and xylenes detected in groundwater beneath the subject Property are primarily the result of past facility operations. However, given the location of the subject Property within a commercial/light industrial area of Oakland and the reported southerly direction of groundwater flow, the presence of MTBE and m,p-xylenes in the groundwater sample collected from boring B-12 (located hydraulically upgradient from the warehouse/paint department building) suggest that an unidentified off-site regional source may be contributing to the groundwater contamination. In ADR's experience, considering the "potential domestic supply" classification of groundwater beneath the site, the levels of MTBE in the groundwater are sufficiently high to trigger a regulatory requirement for additional assessment. This assessment would likely include additional soil and groundwater sampling in the areas of concern identified in this report. Following the results of the additional assessment, the course of further action, if any, could be determined.

Since concentrations of MTBE in groundwater, exceeding RWQCB-SF and/or DHS regulatory guidelines, were detected in the area of the investigation described in this report, ADR recommends that a copy of this report be forwarded to the following:

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502
Attn: SLIC Program

Upon review, Alameda County Environmental Health will take an active role in determining appropriate further investigation (if any) required for the site.

7 LIMITATIONS

The conclusions presented in this report are professional opinions based solely upon the Scope of Services described in this report. They are intended exclusively for the use of Golden Gate Sign Company or agents specified by them. The Scope of Services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any re-use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user. It should be recognized that his study was not intended to be a definitive investigation of potential contamination at the subject Property. Given that the Scope of Services for this investigation was limited, it is possible that currently unrecognized contamination might exist at the site.

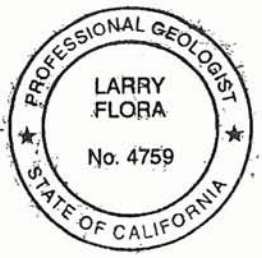
Services performed by ADR were conducted in a manner consistent with that of the same care and skill ordinarily exercised by members of the same profession currently practicing in the same locality under the same conditions. It is important to recognize that even the most comprehensive scope of services may fail to detect environmental liabilities on a particular site. Therefore, ADR cannot act as insurers and cannot "certify" that a site is free of environmental contamination. No expressed or implied representation or warranty is included or intended in our reports except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

8 SIGNATURE PAGE

This Report was prepared in accordance with generally accepted environmental practices and procedures, employing the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area, as of the date of this Report.

Report Prepared By:

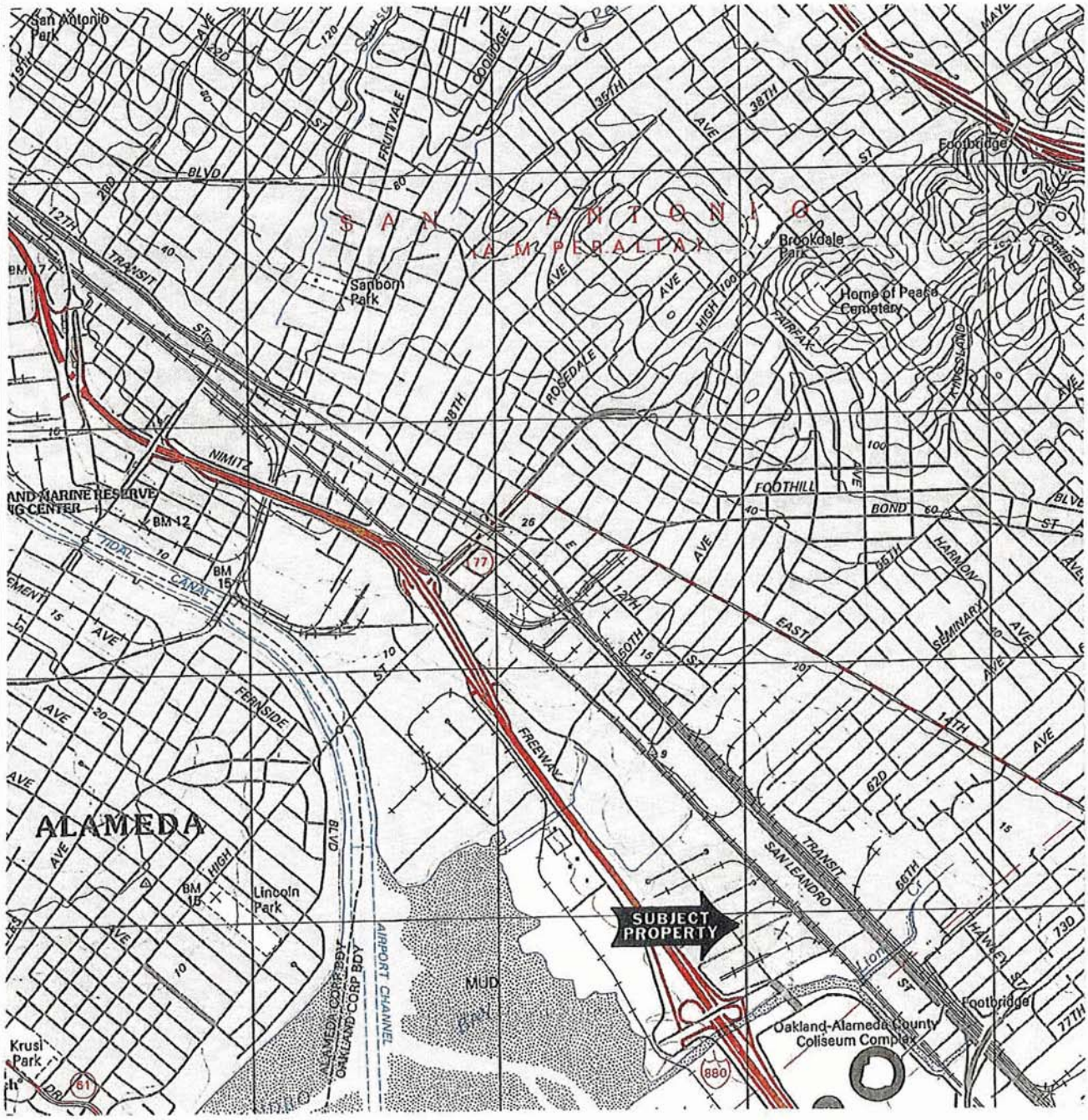
Larry A. Flora, P.G. #4759
Project Geologist



Report Reviewed By:

Kevin F. Gallagher
Environmental Project Manager

FIGURES



NORTH

0 1000' 2000'

Scale: 1 inch = 2,000 feet

ADR Environmental Group, Inc.

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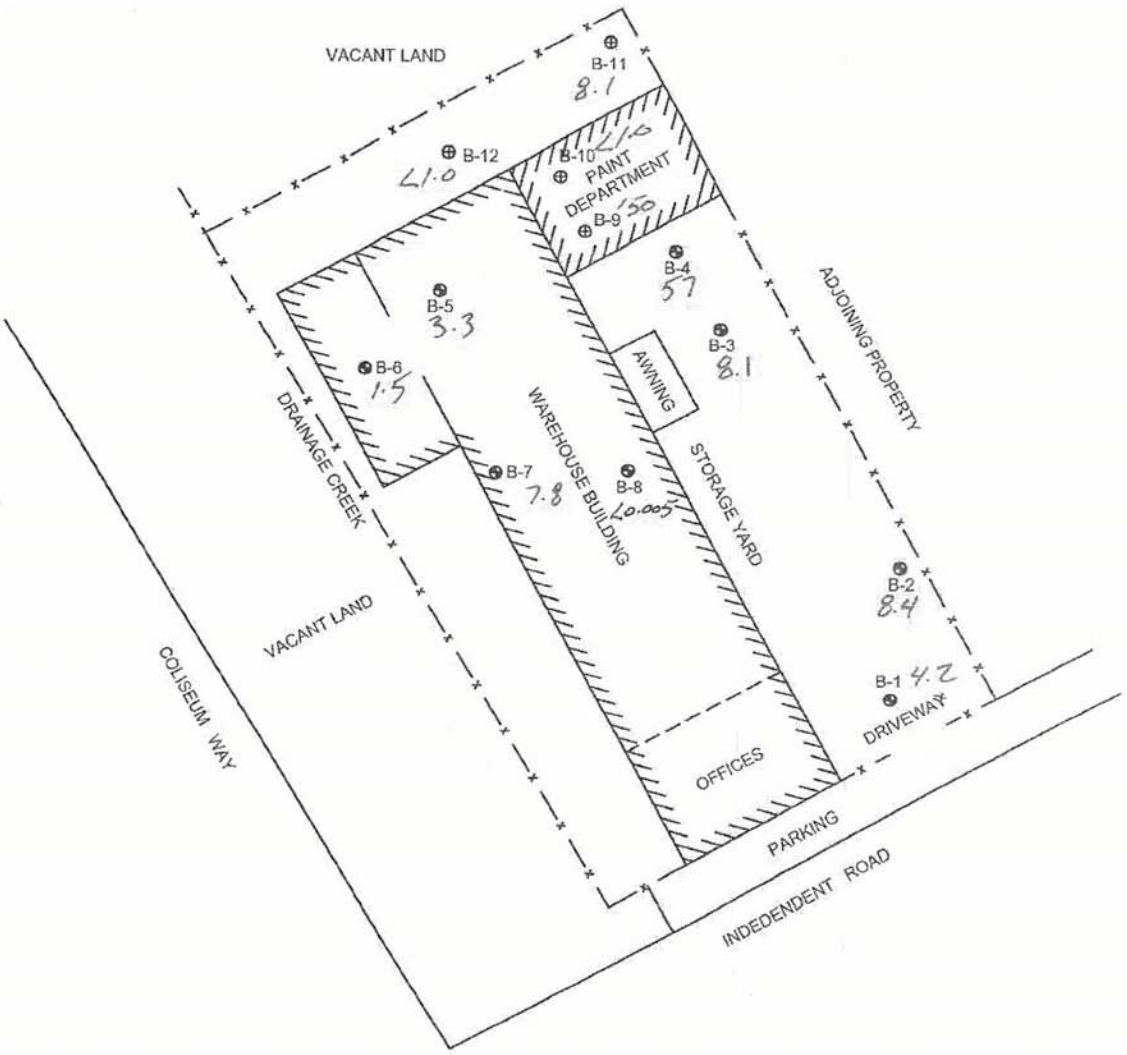
7.5 Minute Topographic Map
Oakland East, CA Quadrangle Map
711 Independent Road
Oakland, CA 94621

Project Number:	**Date:**	**Figure:**
ADR# GGSC 01-001-CA	December 2012	1



(SOIL)
MTBE (H_2O)

LEGEND

- ⊕ BORING LOCATIONS BY ADR, DECEMBER 2012
- ⊕ BORING LOCATIONS BY ADR, OCTOBER 2012

0 50'
SCALE, FEET (APPROX.)

ADR Environmental Group, Inc. Due Diligence and Risk Management Services Nationwide (888) 622-3734		SITE PLAN / BORING LOCATION PLAN 711 Independent Road Oakland, California
Project Number: GGSC 01-12-001-CA	Date: December 2012	FIGURE: 2

GGSC-001 FIG1 11-13-12 PYM

APPENDIX A
DRILLING AND SAMPLING METHODOLOGY

Drilling and Soil Sampling Methodology:

This attachment describes procedures followed by ADR Environmental Group, Inc. (ADR), during the advancement of soil borings and the collection of subsurface soil and groundwater samples. Soil sampling procedures were based on sampling guidance documents from the American Society of Testing and Materials (ASTM), U.S. Environmental Protection Agency (EPA), and California Department of Health Services (DHS). Actual sampling procedures employed were based on field conditions and may differ from those described here.

A. EXPLORATION BORING/SOIL SAMPLING PROCEDURES

Soil borings and soil and groundwater sampling was performed under the direction of an ADR California Professional geologist. The soil borings was advanced using drilling techniques appropriate for the project, as specified in the project proposal.

Soil samples were collected at vertical intervals of 5 feet or less. Soil sampling was done in accordance with ASTM 1586-84. Using this procedure, an acrylic liner was placed into a "large bore" Geoprobe® sampler, the sampler was then driven into the undisturbed soil using a "direct push" drill rig equipped with a hydraulic percussion hammer.

After sampler retrieval, soil retained for possible chemical analysis was collected from a section of the acrylic liner. Other portions of the soil recovered were used for soil classification (in accordance with the guidelines of ASTM D-2487-85) and PID screening. The samples were labeled with an identification number, time, date, location, and requested laboratory analysis. The sample were then stored at approximately 4 (Celsius ((C) in an ice chest for transport to the laboratory. Sample custody procedures outlined in Section D of this attachment were followed.

B. DECONTAMINATION AND DISPOSAL PROCEDURES

All equipment that came into contact with potentially contaminated soil was decontaminated before each use. Decontamination consisted of hot water rinse or trisodium phosphate (TSP) wash and freshwater rinse, as appropriate. Any soil or purge water generated by the field work was stored in 55-gallon drums. The drums were labeled to indicate source of material, site location, property owner, contact phone, and date collected. The drums were located such that they do not constitute a hazard to vehicle or pedestrian traffic.

C. FIELD MEASUREMENTS

Field data will be collected during various sampling and monitoring activities; this section describes routine procedures to be followed by personnel performing field measurements. The methods presented below were intended to ensure that field measurements are consistent and reproducible when performed by various personnel.

C.1 Buried Utility Locations

Prior to commencement of work on site, ADR contacted the appropriate utility companies to have underground utility lines located. ADR also visually surveyed the site to estimate the locations of potentially unmarked underground utilities. All work associated with the borings was preceded by hand augering to a minimum depth of 4 feet below grade to avoid damaging underground utilities.

C.2 Lithologic Logging

A log of soil conditions encountered during the drilling and sample collection was maintained using the Unified Soil Classification System by an ADR geologist. All boring logs were reviewed by a California Professional geologist. If proposed in the approved work plan, soil from the acrylic liner was extracted upon recovery, placed in a plastic bag, and sealed for later screening for organic vapors using a photo ionization detector (PID). The remaining portion of the soil sample was examined and a complete log of soil conditions was recorded on a soil boring log (Appendix B) using the Unified Soil

Classification System. The soil was examined for grain size, color, density, and moisture content.

C.3 Disposal Procedures

Soils and fluids that were produced and/or used during the drilling and sampling of borings, and that are known or suspected to contain potentially hazardous materials, were contained during the above operations. These substances will be retained on site until chemical testing has been completed to determine the proper means of disposal. Handling and disposal of substances known or suspected to contain potentially hazardous materials will comply with the applicable regulations of DHS, the California Department of Water Resources, and any other applicable regulations. Soils and fluids produced and/or used during the above-described operations that are shown to contain potentially hazardous materials will be disposed of appropriately.

Residual substances generated during cleaning procedures that are known or suspected to pose a threat to human health or the environment will be placed in appropriate containers until chemical testing has been completed to determine the proper means for their disposal.

D. SAMPLE CUSTODY

This section describes standard operating procedures for sample custody and custody documentation. Sample custody procedures were followed through sample collection, transfer, analysis, and ultimate disposal. The purpose of these procedures is to assure that (1) the integrity of samples is maintained during their collection, transportation, and storage prior to analysis and (2) post-analysis sample material is properly disposed of. Sample custody is divided into field procedures and laboratory procedures, as described below.

D.1 Field Custody Procedures

Sample quantities, types, and locations were determined before the actual fieldwork commenced. As few personnel as possible handled the samples. The field sampler is personally responsible for the care and custody of the collected samples until they are properly transferred.

D.1.1 Field Documentation

Each sample was labeled and sealed properly immediately after collection. Sample identification documents were carefully prepared so that identification and chain-of-custody records were maintained and sample disposition controlled. Forms were filled out with waterproof ink. The following sample identification documents were utilized.

Sample labels
Field notebook or soil boring logs
Chain-of-custody forms

D.1.2 Sample Labels

Preprinted Encore sample labels were provided. Each label will contain the following information:

Name of collector
Date and time of collection
Place of collection
ADR project number
Sample number

D.1.3 Chain-of-Custody Record

A chain-of-custody record was filled out for and accompanied every sample and every shipment of samples to the analytical laboratories in order to establish the documentation necessary to trace sample possession from the time of collection. The record contained the following information:

Station of sample number or sample I.D.
Signature of collector, sampler, or recorder.
Date and time of collection.
Place of collection.
Sample type.
Signatures of persons involved in the chain of possession.
Inclusive dates of possession.

The laboratory portion of the form was completed by laboratory personnel and contained the following information:

Name of person receiving the sample.
Laboratory sample number.
Date and time of sample receipt.
Analyses requested.
Sample condition and temperature.

D.2 Corrections to Documentation

Original data recorded in field notebooks, chain-of-custody records, sampling information sheets, and other forms was written in ink. These documents were not be altered, destroyed, or discarded, even if they were illegible or contained inaccuracies that required a replacement document.

If an error was made or found on a document, the individual making the corrections did so by crossing a single line through the error, entering the correct information, and initialing and dating the change. All corrections were initialed and dated.

D.3 Sample Storage and Disposal

The analytical laboratory retains the samples and extracts for 60 days after the laboratory issues a written report. Unless notified by the program manager, the laboratory will dispose of unused samples in an appropriate manner consistent with applicable government regulations.

APPENDIX B
SOIL BORING LOGS

ADR Environmental Group, Inc.

Log of Soil Boring: B-1	Vapor Monitoring Device: PID
Location: 711 Independent Road, Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Asphalt Surface									
5		SANDY CLAY-Dark Gray, moist, stiff.		CL					No Odor Water @ 5'	1	0
10		SANDY CLAY-Olive Green, moist, stiff.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-B1 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-2	Vapor Monitoring Device: PID
Location: 711 Independent Road, Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Asphalt Surface									
5		SANDY CLAY-Olive Green/Brown, moist, stiff, occasional gravel, tan decomposed concretions		CL					No Odor Water @ 5'	1	0
10		SANDY CLAY-Dark Green, very moist, soft, some gravel.		CL					Organic Odor	2	0
		T.D. @ 10'									

GGSC-B2 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-3	Vapor Monitoring Device: PID
Location: 711 Independent Road, Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Red Brown, mottled, occasional gravel, moist, stiff.		CL					No Odor Water @ 5'	1	0
10		SANDY CLAY-Olive Green, moist, stiff.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-B3 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-4	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Asphalt Surface									
5		SANDY CLAY-Olive Green, occasional gravel, moist, stiff.		CL					No Odor ▼ Water @ 5'	1	0
10		SANDY CLAY-Olive Green/Gray, mottled, very moist, stiff.		CL						2	0
		T.D. @ 10'									

GGSC-B4 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-5	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Time / Start: Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Olive Green, moist, stiff, occasional gravel.		CL					No Odor Water @ 5'	1	0
10		SANDY CLAY-Dark Green, mottled, moist, soft.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-B5 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-6	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Time / Start: Date 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~5' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Olive Green and Brown, moist, stiff, occasional gravel.		CL					No Odor Water @ 5'	1	0
10		SANDY CLAY-Medium Brown, moist, stiff, occasional gravel.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-B6 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-7	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~7' (10-29-12)
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 13'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Olive Green, moist, stiff, occasional gravel.		CL					No Odor	1	0
7									Water @ 7'		
10		SILTY CLAY-Dark Brown, moist, stiff, wood fragments.		CL					Organic Odor	2	0
13		SANDY CLAY w/SAND-Medium Brown, stiff.		CL						3	0
		T.D. @ 13'									

GGSC-B7 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-8	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Start: Time / Date: 10/29/12
	Finish Drilling: 10/29/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): NA
Drilling Company: Vironex	Casing Elevation:
Drilled By:	Completion Depth: 5'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
1–4		SANDY CLAY-Gray Green, stiff, occasional small gravel		CL					No Odor	1	0
5		T.D. @ 5' ; Refusal									
6–35											

GGSC-B8 11-07-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-9	Vapor Monitoring Device: PID
Location: 711 Independent Road, Oakland, California	Drilling Start: Time / Date: 12/12/12
	Finish Drilling: 12/12/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~6' (12/12/12)
Drilling Company: Vivorex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Olive Green, moist, stiff, occasional subangular gravel.		CL					No Odor Wet @ 6'	1	0
10		SANDY CLAY-Olive Green, very moist, stiff, wood fragments, rare subangular gravel.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-001-B9 12-14-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-10	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Time / Start: Date: 12/12/12
	Finish Drilling: 12/12/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~6' (12/12/12)
Drilling Company: Vivorex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Concrete Surface									
5		SANDY CLAY-Olive Green mottled w/Brown, moist, stiff, rare subangular gravel.		CL					No Odor Wet @ 6'	1	0
10		SANDY CLAY-Olive Green, very moist, stiff, wood fragments, rare sand.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-001-B10 12-14-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-11	Vapor Monitoring Device: PID
Location: 711 Independent Road, Oakland, California	Drilling Start: Time / Date: 12/12/12
	Finish Drilling: 12/12/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): ~6' (12/12/12)
Drilling Company: Vivorex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Dirt / Grass Surface									
5		SANDY CLAY-Olive Green mottled w/ Lite Brown, moist, stiff, rare gravel.		CL					No Odor Wet @ 6'	1	0
10		SANDY CLAY-Olive Green mottled w/ Lite Brown, very moist, stiff.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-001-B11 12-14-12 PYM

ADR Environmental Group, Inc.

Log of Soil Boring: B-12	Vapor Monitoring Device: PID
Location: 711 Independent Road Oakland, California	Drilling Start: Time / Date: 12/12/12
	Finish Drilling: 12/12/12 Finish Well:
Project Number: GGSC 01-12-001-CA	Water Depth (Date): NA
Drilling Company: Vivorex	Casing Elevation:
Drilled By:	Completion Depth: 10'
Drilling Method: DP	Logged By: Steve Ashe
Sampling Method: Large Bore	Checked By: Larry Flora

Depth In Feet	Sample Interval	Soil Description	Graphic Log	USCS Classification	Boring Construction	Blows / 6 in.	Inches Driven	Inches Recovered	Comments	Sample Number	Field OVM/OVA Reading (PPM)
0		Dirt / Grass Surface									
5	■	SANDY CLAY-Olive Green and Dark Green, moist, stiff, rare subangular gravel.		CL					No Odor	1	0
10	■	SANDY CLAY-Gray Green and Brown streaks, moist.		CL					No Odor	2	0
		T.D. @ 10'									

GGSC-001-B12 12-14-12 PYM

APPENDIX C
LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY FORMS

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688
Date Received : 10/31/12

Job: GGSC 01-12-001-CA/ Independent Road

Total Dissolved Solids (TDS)
SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: **B-1w**				
Lab ID : ADR12103105-03A Solids, Total Dissolved (TDS)	680	10 mg/L	11/05/12	11/05/12
Date Sampled 10/29/12 08:35				
Client ID: **B-5w**				
Lab ID : ADR12103105-15A Solids, Total Dissolved (TDS)	2,700	25 mg/L	11/05/12	11/05/12
Date Sampled 10/29/12 11:35				

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/06/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-03A
Client I.D. Number: B-1w

Sampled: 10/29/12 08:35
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	Methyl tert-butyl ether (MTBE)	4.2	0.50 µg/L
10	1,1-Dichloroethane	ND	1.0 µg/L
11	cis-1,2-Dichloroethene	ND	1.0 µg/L
12	Chloroform	ND	1.0 µg/L
13	1,2-Dichloroethane	ND	1.0 µg/L
14	1,1,1-Trichloroethane	ND	1.0 µg/L
15	Carbon tetrachloride	ND	1.0 µg/L
16	Benzene	ND	0.50 µg/L
17	1,2-Dichloropropane	ND	1.0 µg/L
18	Trichloroethene	ND	1.0 µg/L
19	Bromodichloromethane	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	0.75	0.50 µg/L
28	m,p-Xylene	2.5	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	1.4	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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11/6/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-05A
Client I.D. Number: B-2w

Sampled: 10/29/12 09:30
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	Methyl tert-butyl ether (MTBE)	8.4	0.50 µg/L
10	1,1-Dichloroethane	ND	1.0 µg/L
11	cis-1,2-Dichloroethene	ND	1.0 µg/L
12	Chloroform	ND	1.0 µg/L
13	1,2-Dichloroethane	ND	1.0 µg/L
14	1,1,1-Trichloroethane	ND	1.0 µg/L
15	Carbon tetrachloride	ND	1.0 µg/L
16	Benzene	ND	0.50 µg/L
17	1,2-Dichloropropane	ND	1.0 µg/L
18	Trichloroethene	ND	1.0 µg/L
19	Bromodichloromethane	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

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11/6/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-09A
Client I.D. Number: B-3w

Sampled: 10/29/12 11:50
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	Methyl tert-butyl ether (MTBE)	8.1	0.50 µg/L
10	1,1-Dichloroethane	ND	1.0 µg/L
11	cis-1,2-Dichloroethene	ND	1.0 µg/L
12	Chloroform	ND	1.0 µg/L
13	1,2-Dichloroethane	ND	1.0 µg/L
14	1,1,1-Trichloroethane	ND	1.0 µg/L
15	Carbon tetrachloride	ND	1.0 µg/L
16	Benzene	ND	0.50 µg/L
17	1,2-Dichloropropane	ND	1.0 µg/L
18	Trichloroethene	ND	1.0 µg/L
19	Bromodichloromethane	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

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11/6/12
Report Date

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-12A
Client I.D. Number: B-4w

Sampled: 10/29/12 10:50
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	Methyl tert-butyl ether (MTBE)	57	0.50 µg/L
10	1,1-Dichloroethane	ND	1.0 µg/L
11	cis-1,2-Dichloroethene	ND	1.0 µg/L
12	Chloroform	ND	1.0 µg/L
13	1,2-Dichloroethane	ND	1.0 µg/L
14	1,1,1-Trichloroethane	ND	1.0 µg/L
15	Carbon tetrachloride	ND	1.0 µg/L
16	Benzene	ND	0.50 µg/L
17	1,2-Dichloropropane	ND	1.0 µg/L
18	Trichloroethene	ND	1.0 µg/L
19	Bromodichloromethane	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/6/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-15A
Client I.D. Number: B-5w

Sampled: 10/29/12 11:35
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	8.0 µg/L
2	Vinyl chloride	ND	2.0 µg/L
3	Chloroethane	ND	2.0 µg/L
4	Bromomethane	ND	8.0 µg/L
5	Trichlorofluoromethane	ND	2.0 µg/L
6	1,1-Dichloroethene	ND	2.0 µg/L
7	Dichloromethane	ND	8.0 µg/L
8	trans-1,2-Dichloroethene	ND	2.0 µg/L
9	Methyl tert-butyl ether (MTBE)	3.3	1.0 µg/L
10	1,1-Dichloroethane	ND	2.0 µg/L
11	cis-1,2-Dichloroethene	ND	2.0 µg/L
12	Chloroform	ND	2.0 µg/L
13	1,2-Dichloroethane	ND	2.0 µg/L
14	1,1,1-Trichloroethane	ND	2.0 µg/L
15	Carbon tetrachloride	ND	2.0 µg/L
16	Benzene	ND	1.0 µg/L
17	1,2-Dichloropropane	ND	2.0 µg/L
18	Trichloroethene	ND	2.0 µg/L
19	Bromodichloromethane	ND	2.0 µg/L
20	cis-1,3-Dichloropropene	ND	2.0 µg/L
21	trans-1,3-Dichloropropene	ND	2.0 µg/L
22	1,1,2-Trichloroethane	ND	2.0 µg/L
23	Toluene	ND	1.0 µg/L
24	Dibromochloromethane	ND	2.0 µg/L
25	Tetrachloroethene	ND	2.0 µg/L
26	Chlorobenzene	ND	2.0 µg/L
27	Ethylbenzene	ND	1.0 µg/L
28	m,p-Xylene	ND	1.0 µg/L
29	Bromoform	ND	2.0 µg/L
30	o-Xylene	ND	1.0 µg/L
31	1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
32	1,3-Dichlorobenzene	ND	2.0 µg/L
33	1,4-Dichlorobenzene	ND	2.0 µg/L
34	1,2-Dichlorobenzene	ND	2.0 µg/L

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/6/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-18A
Client I.D. Number: B-6w

Sampled: 10/29/12 10:30
Received: 10/31/12
Extracted: 11/01/12
Analyzed: 11/01/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	8.0 µg/L
2	Vinyl chloride	ND	2.0 µg/L
3	Chloroethane	ND	2.0 µg/L
4	Bromomethane	ND	8.0 µg/L
5	Trichlorofluoromethane	ND	2.0 µg/L
6	1,1-Dichloroethene	ND	2.0 µg/L
7	Dichloromethane	ND	8.0 µg/L
8	trans-1,2-Dichloroethene	ND	2.0 µg/L
9	Methyl tert-butyl ether (MTBE)	1.5	1.0 µg/L
10	1,1-Dichloroethane	ND	2.0 µg/L
11	cis-1,2-Dichloroethene	ND	2.0 µg/L
12	Chloroform	ND	2.0 µg/L
13	1,2-Dichloroethane	ND	2.0 µg/L
14	1,1,1-Trichloroethane	ND	2.0 µg/L
15	Carbon tetrachloride	ND	2.0 µg/L
16	Benzene	ND	1.0 µg/L
17	1,2-Dichloropropane	ND	2.0 µg/L
18	Trichloroethene	ND	2.0 µg/L
19	Bromodichloromethane	ND	2.0 µg/L
20	cis-1,3-Dichloropropene	ND	2.0 µg/L
21	trans-1,3-Dichloropropene	ND	2.0 µg/L
22	1,1,2-Trichloroethane	ND	2.0 µg/L
23	Toluene	ND	1.0 µg/L
24	Dibromochloromethane	ND	2.0 µg/L
25	Tetrachloroethene	ND	2.0 µg/L
26	Chlorobenzene	ND	2.0 µg/L
27	Ethylbenzene	ND	1.0 µg/L
28	m,p-Xylene	ND	1.0 µg/L
29	Bromoform	ND	2.0 µg/L
30	o-Xylene	ND	1.0 µg/L
31	1,1,2,2-Tetrachloroethane	ND	2.0 µg/L
32	1,3-Dichlorobenzene	ND	2.0 µg/L
33	1,4-Dichlorobenzene	ND	2.0 µg/L
34	1,2-Dichlorobenzene	ND	2.0 µg/L

Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

11/6/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: ADR12103105 **Job:** GGSC 01-12-001-CA/ Independent Road

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12103105-03A	B-1w	Aqueous	5
12103105-05A	B-2w	Aqueous	5
12103105-09A	B-3w	Aqueous	5
12103105-12A	B-4w	Aqueous	4
12103105-15A	B-5w	Aqueous	6
12103105-18A	B-6w	Aqueous	5

11/6/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *06-Nov-12*

QC Summary Report

Work Order: 12103105

Method Blank

Type: **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W1102DS** Analysis Date: **11/05/2012 00:00**

Sample ID: **MBLK-W1102DS** Units : **mg/L** Run ID: **WETLAB_121102E** Prep Date: **11/05/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	ND	10								

Laboratory Control Spike

Type: **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W1102DS** Analysis Date: **11/05/2012 00:00**

Sample ID: **LCS-W1102DS** Units : **mg/L** Run ID: **WETLAB_121102E** Prep Date: **11/05/2012 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	91	10	100		91	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 06-Nov-12

QC Summary Report

Work Order: 12103105

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121101\12110104.D** Batch ID: **MS10W1101A** Analysis Date: **11/01/2012 13:13**

Sample ID: **MBLK MS10W1101A** Units : **µg/L** Run ID: **MSD_10_121101A** Prep Date: **11/01/2012 13:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
1,1-Dichloroethene	ND	1								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
Benzene	ND	0.5								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Toluene	ND	0.5								
Dibromochloromethane	ND	1								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND	1								
o-Xylene	ND	0.5								
1,1,2,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Surr: 1,2-Dichloroethane-d4	9.01		10		90	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121101\12110102.D** Batch ID: **MS10W1101A** Analysis Date: **11/01/2012 12:02**

Sample ID: **LCS MS10W1101A** Units : **µg/L** Run ID: **MSD_10_121101A** Prep Date: **11/01/2012 12:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	8.95	1	10		90	80	120			
Methyl tert-butyl ether (MTBE)	8.05	0.5	10		81	65	140			
Benzene	8.67	0.5	10		87	70	130			
Trichloroethene	10.4	1	10		104	65	144			
Toluene	10	0.5	10		100	80	120			
Chlorobenzene	10.9	1	10		109	70	130			
Ethylbenzene	10.1	0.5	10		101	80	120			
m,p-Xylene	9.86	0.5	10		99	70	130			
o-Xylene	9.97	0.5	10		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	11.8		10		118	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 06-Nov-12

QC Summary Report

Work Order: 12103105

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121101\12110111.D** Batch ID: **MS10W1101A** Analysis Date: **11/01/2012 15:45**

Sample ID: **12102904-11AMS** Units : **µg/L** Run ID: **MSD_10_121101A** Prep Date: **11/01/2012 15:45**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	41.8	2.5	50	0	84	64	130			
Methyl tert-butyl ether (MTBE)	41.8	1.3	50	0	84	47	150			
Benzene	43.1	1.3	50	0	86	59	138			
Trichloroethene	45.3	2.5	50	0	91	65	144			
Toluene	44.3	1.3	50	0	89	68	130			
Chlorobenzene	51	2.5	50	0	102	70	130			
Ethylbenzene	46.4	1.3	50	0	93	68	130			
m,p-Xylene	44.4	1.3	50	0	89	68	131			
o-Xylene	46.9	1.3	50	0	94	70	130			
Surr: 1,2-Dichloroethane-d4	59.1		50		118	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	50		50		99.9	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121101\12110112.D** Batch ID: **MS10W1101A** Analysis Date: **11/01/2012 16:07**

Sample ID: **12102904-11AMSD** Units : **µg/L** Run ID: **MSD_10_121101A** Prep Date: **11/01/2012 16:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	45	2.5	50	0	90	64	130	41.76	7.4(21)	
Methyl tert-butyl ether (MTBE)	41.5	1.3	50	0	83	47	150	41.81	0.6(40)	
Benzene	47.2	1.3	50	0	94	59	138	43.1	9.1(21)	
Trichloroethene	50	2.5	50	0	100	65	144	45.26	10.0(20)	
Toluene	48.3	1.3	50	0	97	68	130	44.31	8.6(20)	
Chlorobenzene	55.8	2.5	50	0	112	70	130	51.02	8.9(20)	
Ethylbenzene	51.2	1.3	50	0	102	68	130	46.43	9.7(20)	
m,p-Xylene	48.6	1.3	50	0	97	68	131	44.43	9.1(20)	
o-Xylene	51.4	1.3	50	0	103	70	130	46.87	9.2(20)	
Surr: 1,2-Dichloroethane-d4	58.3		50		117	70	130			
Surr: Toluene-d8	49.2		50		98	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		100	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

EDD Required : **No**

Sampled by : Steven Aske

PO :

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	**31-Oct-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_W						Sample Remarks
ADR12103105-01A	B-1-1	SO	10/29/12 08:15	1	0	4	Hold								
ADR12103105-02A	B-1-2	SO	10/29/12 08:27	1	0	4	Hold								
ADR12103105-03A	B-1w	AQ	10/29/12 08:35	4	0	4		TDS	8260/MTBE_Cs						
ADR12103105-04A	B-2-1	SO	10/29/12 08:43	1	0	4	Hold								
ADR12103105-05A	B-2w	AQ	10/29/12 09:30	3	0	4			8260/MTBE_Cs						
ADR12103105-06A	B-3-1	SO	10/29/12 08:55	1	0	4	Hold								
ADR12103105-07A	B-3-2	SO	10/29/12 09:09	1	0	4	Hold								
ADR12103105-08A	B-3-3	SO	10/29/12 11:20	1	0	4	Hold								
ADR12103105-09A	B-3w	AQ	10/29/12 11:50	3	0	4			8260/MTBE_Cs						
ADR12103105-10A	B-4-1	SO	10/29/12 09:15	1	0	4	Hold								

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	10.31.12 11:33

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

EDD Required : **No**

Sampled by : Steven Aske

PO :

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	31-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_W						Sample Remarks
ADR12103105-11A	B-4-2	SO	10/29/12 10:30	1	0	4	Hold								
ADR12103105-12A	B-4w	AQ	10/29/12 10:50	3	0	4			8260/MTBE_Cs						
ADR12103105-13A	B-5-1	SO	10/29/12 10:45	1	0	4	Hold								
ADR12103105-14A	B-5-2	SO	10/29/12 10:57	1	0	4	Hold								
ADR12103105-15A	B-5w	AQ	10/29/12 11:35	4	0	4		TDS	8260/MTBE_Cs						All voas received contain air bubbles > 6mm.
ADR12103105-16A	B-6-1	SO	10/29/12 09:20	1	0	4	Hold								
ADR12103105-17A	B-6-2	SO	10/29/12 09:26	1	0	4	Hold								
ADR12103105-18A	B-6w	AQ	10/29/12 10:30	3	0	4			8260/MTBE_Cs						
ADR12103105-19A	B-7-1	SO	10/29/12 09:45	1	0	4	Hold								
ADR12103105-20A	B-7-2	SO	10/29/12 09:59	1	0	4	Hold								

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	10-31-12 11:33

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

EDD Required : **No**

Sampled by : Steven Aske

PO :

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	31-Oct-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_W						Sample Remarks
ADR12103105-21A	B-7w	AQ	10/29/12 11:00	1	0	4	Hold								
ADR12103105-22A	B-8-1	SO	10/29/12 11:15	1	0	4	Hold								

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	10-31-12 11:33

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

AMENDED

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

PO :

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

EDD Required : **No**

Sampled by : Steven Aske

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	06-Nov-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_S	VOC_W					Sample Remarks
ADR12103105-11A	B-4-2	SO	10/29/12 10:30	1	0	4	Hold								
ADR12103105-12A	B-4w	AQ	10/29/12 10:50	3	0	4				8260/MTBE_Cs					
ADR12103105-13A	B-5-1	SO	10/29/12 10:45	1	0	4	Hold								
ADR12103105-14A	B-5-2	SO	10/29/12 10:57	1	0	4	Hold								
ADR12103105-15A	B-5w	AQ	10/29/12 11:35	4	0	4		TDS		8260/MTBE_Cs					All voas received contain air bubbles > 6mm.
ADR12103105-16A	B-6-1	SO	10/29/12 09:20	1	0	4	Hold								
ADR12103105-17A	B-6-2	SO	10/29/12 09:26	1	0	4	Hold								
ADR12103105-18A	B-6w	AQ	10/29/12 10:30	3	0	4				8260/MTBE_Cs					
ADR12103105-19A	B-7-1	SO	10/29/12 09:45	1	0	4	Hold								
ADR12103105-20A	B-7-2	SO	10/29/12 09:59	1	0	4	Hold								

Comments: Security seals intact. Frozen ice. Amended 11/6/12: Per phone call from Larry via Reyna added 8260/MTBE to samples -21A and -22A on 48 Hour TAT, Due 11/8/12. EA :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	11-6-12 1444

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
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Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

AMENDED

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

EDD Required : **No**

Sampled by : Steven Aske

PO :

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	06-Nov-12

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_S	VOC_W					Sample Remarks
ADR12103105-21A	B-7w	AQ	10/29/12 11:00	3	0	4				8260/MTBE_Cs					
ADR12103105-22A	B-8-1	SO	10/29/12 11:15	1	0	4			8260/MTBE_Cs						

Comments: Security seals intact. Frozen ice. Amended 11/6/12: Per phone call from Larry via Reyna added 8260/MTBE to samples -21A and -22A on 48 Hour TAT, Due 11/8/12. EA :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	11-6-12 1447

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
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Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

56931

Billing Information:
Company Name: ADR Environmental Group
Attn: Larry Flint
Address: 225 Main Street Suite 202
City, State, Zip: Sacramento CA 95816
Phone Number: 916 921-0600 Fax: 916-648-6688

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA ✓ NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____ Page # 1 of 2

Consultant / Client Name: 25 Above
Address:
City, State, Zip:
Job # GGSC 01-12-001-CA Job Name Independent Road
Report Attention / Project Manager
Name: Larry Flint
Email: LFlint@adrenv.com
Phone: 916-949-3879 Mobile: 916-343-2646

Analyses Required: VOCs 8260; TDS 160.1

Data Validation Level: III or IV
EDD / EDF? YES ____ NO ____
Global ID # ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	VOCs 8260	TDS 160.1	REMARKS
815	10/24/12	SO	ADR12103105-01	B-1-1	~~SPA~~ 1week		1 tube			hold
827		SO	-02	B-1-2	~~4~~ SPA		1 tube			hold
~~835~~		AQ	-03	B-1W	1week		4	X	X	
843		SO	-04	B-2-1	~~4~~ SPA		1 tube			hold
930		AQ	-05	B-2W	1week		3 ·	X	~~X~~ SPA	
855		SO	-06	B-3-1			1 tube			hold
909		SO	-07	B-3-2	SPA		1 tube			hold
1120		SO	-08	B-3-3			1 tube			hold
1150		~~SO~~ AQ	-09	B-3W	1week		3	X	~~X~~ SPA	
915		SO	-10	B-4-1	SPA		1 tube			hold
1030		SO	-11	B-4-2			1 tube			hold
1050		AQ	-12	B-4W	1week		3	X	~~X~~ SPA	
1045		SO	-13	B-5-1	~~4~~ SPA		1 tube			hold

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Steven Asbe

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Steven Asbe	Ernciano	10.30.12	1247
	Elizabeth Adcox / Alpha	10.31.12	11:33

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

56932

Billing Information:
Company Name: ADR Environmental Group
Attn: Larry Ford
Address: 225 30th Street #202
City, State, Zip: Sacramento CA 95816
Phone Number: 916-921-0600 Fax: 916-648-6688

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ___ CA ✓ NV ___ WA ___ DOD Site ___
ID ___ OR ___ OTHER ___ Page # 2 of 2

Consultant / Client Name: ES Shive
Address:
City, State, Zip:
Job # GGSC 01-12-001-CA Job Name: Independent Road
Report Attention / Project Manager
Name: Larry Ford
Email: LFord@adrenv.com
Phone: 916-969-3894 Mobile: 916-343-2696

Data Validation Level: III or IV
EDD / EDF? YES ___ NO ___
Global ID #:

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required: VOCs 8260	TPHg 160.1	REMARKS
1057	10/29/12	SO	-14	B-5-2	~~1 week~~ 72h		1 tube			hold
1135		AQ	-15	B-5W	1 week		4	X	X	
920		SO	-16	B-6-1	SAA		1 tube			hold
926		SO	-17	B-6-2	SAA		1 tube			hold
1030		AQ	-18	B-6W	1 week		3	X	X	
945		SO	-19	B-7-1	SAA		1 tube			hold
951		SO	-20	B-7-2	SAA		1 tube			hold
1100		AQ	-21	B-7W	SAA		1 tube			hold
1115		SO	-22	B-8-1	SAA		1 tube			hold

FOR LAB USE ONLY

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Steven Shive

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Steven Shive	D. Friedman	10.30.12	1247
	Elizabeth Adcox / Alpha	10.31.12	11:33

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc, The liability of the laboratory is limited to the amount paid for the report.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-21A
Client I.D. Number: B-7w

Sampled: 10/29/12 11:00
Received: 10/31/12
Extracted: 11/08/12
Analyzed: 11/08/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit
1	Chloromethane	ND	4.0 µg/L
2	Vinyl chloride	ND	1.0 µg/L
3	Chloroethane	ND	1.0 µg/L
4	Bromomethane	ND	4.0 µg/L
5	Trichlorofluoromethane	ND	1.0 µg/L
6	1,1-Dichloroethene	ND	1.0 µg/L
7	Dichloromethane	ND	4.0 µg/L
8	trans-1,2-Dichloroethene	ND	1.0 µg/L
9	Methyl tert-butyl ether (MTBE)	7.8	0.50 µg/L
10	1,1-Dichloroethane	ND	1.0 µg/L
11	cis-1,2-Dichloroethene	ND	1.0 µg/L
12	Chloroform	ND	1.0 µg/L
13	1,2-Dichloroethane	ND	1.0 µg/L
14	1,1,1-Trichloroethane	ND	1.0 µg/L
15	Carbon tetrachloride	ND	1.0 µg/L
16	Benzene	ND	0.50 µg/L
17	1,2-Dichloropropane	ND	1.0 µg/L
18	Trichloroethene	ND	1.0 µg/L
19	Bromodichloromethane	ND	1.0 µg/L
20	cis-1,3-Dichloropropene	ND	1.0 µg/L
21	trans-1,3-Dichloropropene	ND	1.0 µg/L
22	1,1,2-Trichloroethane	ND	1.0 µg/L
23	Toluene	ND	0.50 µg/L
24	Dibromochloromethane	ND	1.0 µg/L
25	Tetrachloroethene	ND	1.0 µg/L
26	Chlorobenzene	ND	1.0 µg/L
27	Ethylbenzene	ND	0.50 µg/L
28	m,p-Xylene	ND	0.50 µg/L
29	Bromoform	ND	1.0 µg/L
30	o-Xylene	ND	0.50 µg/L
31	1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
32	1,3-Dichlorobenzene	ND	1.0 µg/L
33	1,4-Dichlorobenzene	ND	1.0 µg/L
34	1,2-Dichlorobenzene	ND	1.0 µg/L

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/8/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816
Job: GGSC 01-12-001-CA/ Independent Road

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688

Alpha Analytical Number: ADR12103105-22A
Client I.D. Number: B-8-1

Sampled: 10/29/12 11:15
Received: 10/31/12
Extracted: 11/07/12 12:33
Analyzed: 11/08/12

Volatile Organics by GC/MS
EPA Method SW8260B

	Compound	Concentration	Reporting Limit		Compound	Concentration	Reporting Limit
1	Chloromethane	ND	40 µg/Kg	26	Chlorobenzene	ND	20 µg/Kg
2	Vinyl chloride	ND	20 µg/Kg	27	Ethylbenzene	ND	5.0 µg/Kg
3	Chloroethane	ND	20 µg/Kg	28	m,p-Xylene	ND	5.0 µg/Kg
4	Bromomethane	ND	40 µg/Kg	29	Bromoform	ND	20 µg/Kg
5	Trichlorofluoromethane	ND	20 µg/Kg	30	o-Xylene	ND	5.0 µg/Kg
6	1,1-Dichloroethene	ND	20 µg/Kg	31	1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
7	Dichloromethane	ND	40 µg/Kg	32	1,3-Dichlorobenzene	ND	20 µg/Kg
8	trans-1,2-Dichloroethene	ND	20 µg/Kg	33	1,4-Dichlorobenzene	ND	20 µg/Kg
9	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	34	1,2-Dichlorobenzene	ND	20 µg/Kg
10	1,1-Dichloroethane	ND	20 µg/Kg				
11	cis-1,2-Dichloroethene	ND	20 µg/Kg				
12	Chloroform	ND	20 µg/Kg				
13	1,2-Dichloroethane	ND	20 µg/Kg				
14	1,1,1-Trichloroethane	ND	20 µg/Kg				
15	Carbon tetrachloride	ND	20 µg/Kg				
16	Benzene	ND	5.0 µg/Kg				
17	1,2-Dichloropropane	ND	20 µg/Kg				
18	Trichloroethene	ND	20 µg/Kg				
19	Bromodichloromethane	ND	20 µg/Kg				
20	cis-1,3-Dichloropropene	ND	20 µg/Kg				
21	trans-1,3-Dichloropropene	ND	20 µg/Kg				
22	1,1,2-Trichloroethane	ND	20 µg/Kg				
23	Toluene	ND	5.0 µg/Kg				
24	Dibromochloromethane	ND	20 µg/Kg				
25	Tetrachloroethene	ND	20 µg/Kg				

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

11/8/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: ADR12103105 **Job:** GGSC 01-12-001-CA/ Independent Road

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12103105-21A	B-7w	Aqueous	2

11/8/12
Report Date

AMENDED

CHAIN-OF-CUSTODY RECORD

CA **RUSH!**

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : ADR12103105

Report Due By : 5:00 PM On : 06-Nov-12

Amendment Due: 11/8/12

Billing Information :

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

EDD Required : **No**

Sampled by : Steven Aske

PO :

Client's COC # : 56931, 56932 Job : GGSC 01-12-001-CA/ Independent Road

Cooler Temp	Samples Received	Date Printed
0 °C	31-Oct-12	**06-Nov-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	TDS_W	VOC_S	VOC_W					Sample Remarks
ADR12103105-01A	B-1-1	SO	10/29/12 08:15	1	0	4	Hold								
ADR12103105-02A	B-1-2	SO	10/29/12 08:27	1	0	4	Hold								
ADR12103105-03A	B-1w	AQ	10/29/12 08:35	4	0	4		TDS		8260/MTBE_Cs					
ADR12103105-04A	B-2-1	SO	10/29/12 08:43	1	0	4	Hold								
ADR12103105-05A	B-2w	AQ	10/29/12 09:30	3	0	4				8260/MTBE_Cs					
ADR12103105-06A	B-3-1	SO	10/29/12 08:55	1	0	4	Hold								
ADR12103105-07A	B-3-2	SO	10/29/12 09:09	1	0	4	Hold								
ADR12103105-08A	B-3-3	SO	10/29/12 11:20	1	0	4	Hold								
ADR12103105-09A	B-3w	AQ	10/29/12 11:50	3	0	4				8260/MTBE_Cs					
ADR12103105-10A	B-4-1	SO	10/29/12 09:15	1	0	4	Hold								

Comments: Security seals intact. Frozen ice. Amended 11/6/12: Per phone call from Larry via Reyna added 8260/MTBE to samples -21A and -22A on 48 Hour TAT, Due 11/8/12. EA :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	Alpha Analytical, Inc.	11-6-12 1444

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

ADR Envir. Group
255 30th Street, Suite 202
Sacramento, CA 95816

Attn: Larry Flora
Phone: (916) 469-3694
Fax: (916) 648-6688
Date Received : 12/14/12

Job: GGSC 01-12-001-CA/ Independent Road

Volatile Organic Compounds (VOCs) EPA Method SW8260B

		Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID :	**B-9W**						
Lab ID :	ADR12121402-02A	Methyl tert-butyl ether (MTBE)	150		1.0 µg/L	12/17/12	12/17/12
Date Sampled	12/12/12 09:45	Benzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Toluene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Ethylbenzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		m,p-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12
		o-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12
Client ID :	**B-10W**						
Lab ID :	ADR12121402-04A	Methyl tert-butyl ether (MTBE)	ND	O	1.0 µg/L	12/17/12	12/17/12
Date Sampled	12/12/12 09:55	Benzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Toluene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Ethylbenzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		m,p-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12
		o-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12
Client ID :	**B-11W**						
Lab ID :	ADR12121402-06A	Methyl tert-butyl ether (MTBE)	8.1		1.0 µg/L	12/18/12	12/18/12
Date Sampled	12/12/12 11:35	Benzene	ND	O	1.0 µg/L	12/18/12	12/18/12
		Toluene	ND	O	1.0 µg/L	12/18/12	12/18/12
		Ethylbenzene	ND	O	1.0 µg/L	12/18/12	12/18/12
		m,p-Xylene	1.5		1.0 µg/L	12/18/12	12/18/12
		o-Xylene	ND	O	1.0 µg/L	12/18/12	12/18/12
Client ID :	**B-12W**						
Lab ID :	ADR12121402-08A	Methyl tert-butyl ether (MTBE)	ND	O	1.0 µg/L	12/17/12	12/17/12
Date Sampled	12/12/12 11:20	Benzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Toluene	ND	O	1.0 µg/L	12/17/12	12/17/12
		Ethylbenzene	ND	O	1.0 µg/L	12/17/12	12/17/12
		m,p-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12
		o-Xylene	ND	O	1.0 µg/L	12/17/12	12/17/12

O = Reporting Limits were increased due to sample foaming.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

12/20/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: ADR12121402 **Job:** GGSC 01-12-001-CA/ Independent Road

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12121402-02A	B-9W	Aqueous	6
12121402-04A	B-10W	Aqueous	6
12121402-06A	B-11W	Aqueous	3
12121402-08A	B-12W	Aqueous	2

12/20/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 18-Dec-12

QC Summary Report

Work Order: 12121402

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121217\12121705.D** Batch ID: **MS10W1217A** Analysis Date: **12/17/2012 13:26**

Sample ID: **MBLK MS10W1217A** Units : **µg/L** Run ID: **MSD_10_121217A** Prep Date: **12/17/2012 13:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.58		10		86	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	8.96		10		90	70	130			

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121217\12121703.D** Batch ID: **MS10W1217A** Analysis Date: **12/17/2012 12:16**

Sample ID: **LCS MS10W1217A** Units : **µg/L** Run ID: **MSD_10_121217A** Prep Date: **12/17/2012 12:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.85	0.5	10		89	65	140			
Benzene	10.3	0.5	10		103	70	130			
Toluene	10	0.5	10		100	80	120			
Ethylbenzene	11.5	0.5	10		115	80	120			
m,p-Xylene	12	0.5	10		120	70	130			
o-Xylene	11.4	0.5	10		114	70	130			
Surr: 1,2-Dichloroethane-d4	9.51		10		95	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	10.6		10		106	70	130			

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121218\12121806.D** Batch ID: **MS10W1217A** Analysis Date: **12/18/2012 12:14**

Sample ID: **12121701-01AMS** Units : **µg/L** Run ID: **MSD_10_121217A** Prep Date: **12/18/2012 12:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	72.3	1.3	50	38.55	68	47	150			
Benzene	47	1.3	50	3.41	87	59	138			
Toluene	38.1	1.3	50	0	76	68	130			
Ethylbenzene	40.8	1.3	50	0	82	68	130			
m,p-Xylene	42.5	1.3	50	0	85	68	131			
o-Xylene	42.8	1.3	50	0	86	70	130			
Surr: 1,2-Dichloroethane-d4	51.6		50		103	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.1		50		110	70	130			

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\121218\12121808.D** Batch ID: **MS10W1217A** Analysis Date: **12/18/2012 12:56**

Sample ID: **12121701-01AMSD** Units : **µg/L** Run ID: **MSD_10_121217A** Prep Date: **12/18/2012 12:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	79.2	1.3	50	38.55	81	47	150	72.3	9.1(40)	
Benzene	55.3	1.3	50	3.41	104	59	138	47.04	16.1(21)	
Toluene	46.6	1.3	50	0	93	68	130	38.1	20.2(20)	R5
Ethylbenzene	52.5	1.3	50	0	105	68	130	40.76	25.1(20)	R5
m,p-Xylene	55	1.3	50	0	110	68	131	42.48	25.7(20)	R5
o-Xylene	52.5	1.3	50	0	105	70	130	42.75	20.4(20)	R5
Surr: 1,2-Dichloroethane-d4	48.7		50		97	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	55.9		50		112	70	130			

Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: *18-Dec-12*

QC Summary Report

Work Order: 12121402

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

Billing Information :

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA

WorkOrder : ADR12121402

Report Due By : 5:00 PM On : 20-Dec-12

Report Attention	Phone Number	EMail Address
Larry Flora	(916) 469-3694 x	lflora@adreg.com

Client:
ADR Envir. Group
255 30th Street, Suite 202

Sacramento, CA 95816

PO :

Client's COC # : 10563 Job : GGSC 01-12-001-CA/ Independent Road

EDD Required : **No**

Sampled by : Steven Aske

Cooler Temp	Samples Received	Date Printed
0 °C	14-Dec-12	**14-Dec-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests HOLD	VOC_W							Sample Remarks
ADR12121402-01A	B-9-1	SO	12/12/12 08:35	2	0	4	Hold								(1) MeOH voa (1) 4oz. Jar
ADR12121402-02A	B-9W	AQ	12/12/12 09:45	3	0	4		BTEX/M_C							
ADR12121402-03A	B-10-1	SO	12/12/12 09:15	2	0	4	Hold								(1) MeOH voa (1) 4oz. Jar
ADR12121402-04A	B-10W	AQ	12/12/12 09:55	3	0	4		BTEX/M_C							
ADR12121402-05A	B-11-1	SO	12/12/12 10:25	2	0	4	Hold								(1) MeOH voa (1) 4oz. Jar
ADR12121402-06A	B-11W	AQ	12/12/12 11:35	3	0	4		BTEX/M_C							
ADR12121402-07A	B-12-1	SO	12/12/12 10:55	2	0	4	Hold								(1) MeOH voa (1) 4oz. Jar
ADR12121402-08A	B-12W	AQ	12/12/12 11:20	3	0	4		BTEX/M_C							

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	Elizabeth Adcox	Elizabeth Adcox	**Alpha Analytical, Inc.**	12-14-12 12:01

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company: ADR Environmental Group.
Attn: Larry Flora
Address: 2253 5th Street #202
City, State, Zip: Sacramento CA 95816
Phone Number: 916-921-0600 Fax: 916 648-8668

Alpha Analytical, Inc.
Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Phone: 775-355-1044
Fax: 775-355-0406

Satellite Service Centers:
Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827 Phone: 916-366-9089
Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120 Phone: 702-281-4848
Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746 Phone: 714-386-2901

10563

Page # 1 of 1

Consultant/ Client Info:

Company: Stuve 21 above
Address:
City, State, Zip:

Job and Purchase Order Info:

Job #: GGSC 01-12-001-CA
Job Name: Independent Road
P.O. #:

Report Attention/Project Manager:

Name: Larry Flora
Email Address: LFlora@adreq.com
Phone #: 916 921-0600
Cell #: 916-393-2646

QC Deliverable Info:

EDD Required? Yes / No EDF Required? Yes / No
Global ID:
Data Validation Level: III or IV

Samples Collected from which State? (circle one) AZ (CA) NV WA ID OR DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested: MTBE/BTEX 8021B/8260B	Remarks
0835	12/12	GT	ADR1212H02 01	B-9-1		nt	2S		hold
0945		AG	-02	B-9w	5 days	Lock	3VOA	✓	
0915		GT	-03	B-10-1			2S		hold
0950		AG	-04	B-10w	5 days		3VOA	✓	
1025		GT	-05	B-11-1			2S		hold
1135		AG	-06	B-11w	5 days		3VOA	✓	
1055		GT	-07	B-12-1			2S		hold
1120		AG	-08	B-12w	5 days		3VOA	✓	

ADDITIONAL INSTRUCTIONS: hold all samples

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: Steven Ashe

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Steven Ashe	12/13/2012	1138	E. Fanciano	12.13.12	1138
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			Elizabeth Adcox / Alpha	12.14.12	12:06
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

* Key: AQ - Aqueous WA - Waste OT - Other ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.