



SUPPLEMENTAL OFFSITE ASSESSMENT AND FIRST QUARTER 2015 GROUNDWATER MONITORING REPORT

Panama Street Site
12908, 12910, 12918, 12922, 12930, 12950 and
12964 Panama Street
Los Angeles, California 90066

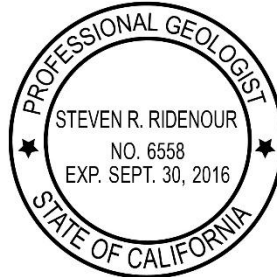
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**SUPPLEMENTAL OFFSITE ASSESSMENT AND FIRST QUARTER 2015 GROUNDWATER
MONITORING REPORT**



Steven R. Ridenour
Alta Environmental LP
Senior Geologist



Mike Cassidy
Alta Environmental LP
PG 6281, CHG 580
Vice President – Site Assessment and Remediation
Branch Manager – Irvine Office



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1. INTRODUCTION

Alta Environmental LP (Alta) has prepared this Supplemental Offsite Assessment and First Quarter 2015 Groundwater Monitoring Report for the Panama Street site, located at 12964, 12950, 12930, 12922, 12918, 12910, and 12908 Panama Street in the City of Los Angeles, California (hereafter referred to as the "Site"). The scope of work was conducted in accordance with the *Work Plan to Complete Delineation of Lateral and Vertical Extent of Contamination*, prepared by Alta (dated August 29, 2014), and on the Los Angeles Regional Water Quality Board (LARWQCB) approval letter dated September 15, 2014. The objective of the assessment was to evaluate the northern extent of soil matrix and soil vapor impacts beneath Panama Street north of Building #1, to evaluate the southeastern extent of soil matrix and groundwater impacts beneath Culver Boulevard beyond the EZ Storage site, and to update the groundwater gradient and monitoring conditions throughout the Site.

This report discusses the results of the offsite assessment work conducted under the approved permits from the City of Los Angeles, Department of Public Works, Bureau of Engineering (LADPW). The field work was conducted within the public right-of-ways of Panama Street and Culver Boulevard within the LADPW jurisdiction. Access permits from Caltrans has not been granted yet, therefore this report does not include the proposed work to be conducted within the jurisdiction of Caltrans.

A partial report of data available regarding these activities was submitted to the LARWQCB on February 13, 2015, to meet the requirements of LARWQCB correspondence dated December 8, 2014. This report contains the data included in the first report, as well as information not available and complete as of February 12, 2015.

2. BACKGROUND

Multiple tenants, many with connections to the military and to aerospace industries, have utilized the Site since its development more than 50 years ago as an industrial property. Teledyne Technologies Incorporated dba Teledyne Microelectronic Technologies (Teledyne) and/or its predecessors in interest first leased a portion of the Site beginning in 1957, leasing at later times additional portions of Site and finally leasing the entire Site in 1979. Teledyne vacated the Site on July 31, 2013 and no longer leases the subject property.

Prior to vacating the Site, Teledyne engaged Alta to conduct a follow-up Phase II Environmental Site Assessment (ESA) to assess potential environmental concerns presented in a January 2013 Phase I ESA report developed by Environ International Corporation on behalf of the property owner. The results of our Phase II ESA (Alta, 2014), conducted from April to July 2013, identified various chemical impacts to subsurface soils, soil-vapor and groundwater beneath the Site.

2.1 Site Location and Description

The Site is an approximately 5.73-acre commercial/industrial property located in a commercial area of Los Angeles, California, near the unincorporated community of Marina Del Rey. The Site is bound by a storage facility and Culver Boulevard to the southeast, a Marina Freeway (Highway 90) frontage road to the south, Alla Road followed by commercial properties to the west, Panama Street followed by residences to the north, and a property owned by Teledyne Technologies Incorporated to the northeast. According to the City of Los Angeles, Department of City Planning online Zone Information and Map Access System, the Site is zoned M1-1 (Limited Industrial) and M2-1 (Light Industrial).

The Site is developed with four single-story buildings (Buildings #1, #2, #3/6, and #4), a former chemical storage shed, a former hazardous waste storage area, a former Manufacturing Services Department, and

asphalt and concrete paved driveways, parking lots, and walk-ways. A security fence encircles the property. The topography across the Site is generally flat, with a slight slope to the south. Stormwater surface flow on the northern portion of the property follows a southeast-northwest trending concrete swale between Buildings #1 and #3/6 and discharges to Panama Street. Stormwater surface flow on the southern portion of the property drains to a west-east trending concrete swale in the southern parking lot and discharges to a storm channel running along the property line between the Site and the adjoining storage facility. This storm channel discharges to a storm drain located near the southern corner of the property. A Site Vicinity Map is presented as Figure 1 and a USGS Site Topographic Map is included as Figure 2.

3. REGIONAL GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology

The Site is situated within the Ballona Gap of the Santa Monica Basin. Holocene age alluvium forms much of the surficial deposits in this area, including clay-rich Bellflower aquiclude and underlying gravels of the Ballona aquifer (DWR, 1961). Soils encountered during Alta's 2013 assessment of the Site were predominantly clay with localized lenses of silt and sand to 10 feet below ground surface (bgs), underlain by alternating sequences of clay and sand to total depths explored.

3.2 Regional Hydrogeology

The Site is situated within the Coastal sub-basin of the Santa Monica Basin, near the southern boundary. The basin is bound by the Santa Monica Mountains to the northwest, the Pacific Ocean to the west, the Newport-Inglewood fault to the northeast, and the Ballona escarpment and Baldwin Hills to the south and southeast. The primary groundwater producing zones within the Santa Monica basin include the aquifers within the recent alluvium and the underlying San Pedro Formation (Silverado Aquifer) (DWR, 1961). The nearest surface water body to the Site is Ballona Creek, located approximately ¼ mile southeast of the Site (Figure 2).

Depth to the uppermost groundwater ranged from approximately 10 to 12.5 feet bgs during Alta's assessment. Based on our most recent monitoring event conducted on February 2, 2015, groundwater flow direction of the uppermost groundwater zone was calculated to be to the southwest at a gradient of 0.0034-feet per foot.

4. SITE ASSESSMENT

The following summarizes the field work conducted under the approved permits from the City of Los Angeles, Department of Public Works, Bureau of Engineering (LADPW). The field work was conducted within the public right-of-ways of Panama Street and Culver Boulevard.

4.1 Pre-field Activities

4.1.1 Health and Safety Plan

Prior to conducting field work for the project, Alta prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration California Code of Regulations (CCR) Title 8, Section 5192 requirements. The scope of work and potential contaminants that could be encountered during the investigation was addressed in the HASP. The on-site health and safety officer was responsible for implementation of the HASP. Daily tailgate meetings were held with Alta personnel and subcontractors at the beginning of each day of fieldwork. The scope of work, safety hazards, and safety procedures were discussed during the tailgate meetings. All field personnel, including

subcontractors, were required to review and sign the HASP before beginning any fieldwork. All Alta and subcontractor personnel conducting field work onsite have received the OSHA Hazardous Waste Operation training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The Site assessment work was completed with no reportable injuries or illnesses.

4.1.2 Permitting

Prior to conducting field work, two separate encroachment/excavation permits (E-permits) for drilling in the public right-of-way were obtained from the LADPW for the four offsite borings on Panama Street (B102 through B105) and the two wells on Culver Boulevard (MW7 and MW8). As part of the permitting process, Alta prepared and submitted a utility map for the boring and well locations. The map was reviewed and stamped by a California Professional Civil Engineer. Approval to conduct field operations in Panama Street and Culver Boulevard was also required by the City of Los Angeles Department of Transportation (DOT). A traffic control plan was submitted to the DOT for review and approval. After the traffic control plan was approved, Alta submitted the approved traffic control plan, the stamped utility map, and appropriate fees to the LADPW. The LADPW then provided the encroachment/excavation permits. Copies of the permits for the borings (E-1485-0066) and for the wells (E-1485-0067) are provided in Appendix A.

Traffic control in accordance with the DOT-approved traffic control plan was set up and maintained during the drilling of the borings and installation of the vapor probes on Panama Street, and during the installation, development, and sampling of the wells on Culver Boulevard.

Before installing Wells MW7 and MW8, Alta obtained a groundwater monitoring well construction permit from the Los Angeles County Department of Public Health (Public Health). A copy of the Public Health permit is also included in Appendix A.

4.1.3 Utility Clearance

Alta conducted a site reconnaissance to locate and mark the four proposed boring locations on Panama Street and the two wells on Culver Boulevard. These locations were inspected for site accessibility, underground utilities, overhead power lines, and any additional potential issues that might have been encountered during fieldwork. All locations were marked with white spray paint, as required by Underground Service Alert (USA). USA was notified at least 48 hours before any drilling activities commenced at the Site.

A geophysical survey was conducted by Spectrum Geophysics of Burbank, California prior to drilling activities, for the purpose of locating identifiable buried utilities and other subsurface anomalies in the vicinities of each proposed boring and well location. The equipment used in the geophysical survey consisted of a Radio Detection 4000 transmitter with matched receiver, Dynatel 500A transmitter with matched receiver, shallow focus metal detector (M-scope), and MALA E-Z Locator ground penetrating radar (GPR) unit coupled to a 500-MHz antenna.

4.2 Offsite Sample Collection and Analysis on Panama Street

On January 14 and 15, 2015, a total of four (4) borings (B102 to B105) were advanced on the south side of Panama Street and north of the chlorinated solvent plumes in soil vapor and soil matrix (primarily tetrachloroethene [PCE] and trichloroethene [TCE]) previously identified within Building #1). The locations of Borings B102 to B105 are shown on Figures 3 through 12. The borings were advanced to various depths ranging from 6.75 feet to 10.5 feet below ground surface (bgs) utilizing hand auger methods. Note that Alta proposed to utilize a direct-push Geoprobe drilling rig to advance the borings, but due to

obstructions encountered at 6.75 feet bgs at B102 and B103, and to avoid damage to potential underground utilities, Alta elected to advance all borings using a hand auger. It was determined that the obstruction was likely a 51" diameter storm drain identified on utility maps provided by the LADPW. Borings B102 and B103 were terminated at 6.75 feet bgs at the suspected storm drain, and vapor probes were subsequently installed. To avoid the suspected storm drain, Borings B104 and B105 were advanced at locations farther north from the planned locations, approximately 8 feet from the curb. Thus the obstruction was avoided and the target depth of 10 feet bgs was attained.

4.2.1 Soil-Matrix Sample Collection and Analysis

Soil samples were collected at depths of 2.5- and 5-feet bgs from Borings B102 and B103, and at 2.5-, 5-, and 10-feet bgs from Borings B104 and B105. Soil samples were collected from either the end of the hand auger, or with the use of a manually-operated slide hammer equipped with a 6-inch long acetate sleeve. Prior to each soil sample collection, the hand auger and/or slide hammer were decontaminated with a three-bucket wash consisting of a non-phosphate cleaning solution, tap water, and a final rinse in distilled water.

The samples were labeled with the boring identification number and depth, and date and time of collection. All soil samples for VOC analysis were collected using pre-preserved 40-milliliter (ml) vials in accordance with EPA Method 5035 procedures. Following collection, each sample was stored in ziplock bags and placed in portable cooler maintained at 4 degrees Celsius, and transported to a California certified environmental laboratory on the same day of collection. The samples were recorded on a chain-of-custody record identifying the sample identification, date and time of collection, sample matrix and containers, preservative, requested analyses, sampler's name, couriers used, and responsible laboratory personnel.

The soils encountered during the investigation were logged continuously using the Unified Soils Classification System (USCS) by a California Professional Geologist (PG). The volatile organic vapor concentration of each soil sample was screened using a PID calibrated to 50 ppm hexane. The soils were placed in a plastic bag and the PID probe was inserted into the bag, and the reading was recorded. The lithology, PID readings, field observation, and sampling depths of the borings were documented on boring logs, included in Appendix B.

Each sample was analyzed for Title 22 Metals by EPA Method 6010B/7471A and VOCs by EPA Method 8260B. A duplicate soil sample was collected from sample B105-5.0. The duplicate sample was collected using the same sampling procedures as the primary sample, and analyzed for the same analytes. Laboratory analytical reports and chain-of-custody documentation for the soil samples are presented in Appendix C. A summary of the VOC and metals analyses are provided in Tables 1 and 2, respectively. The distribution and isoconcentration contours of compounds of concern are depicted in Figures 4 through 12.

4.2.2 Soil Vapor Sample Collection and Analysis

Following soil matrix sampling, vapor probes were installed in each of the four borings and soil-vapor samples were collected from the probes. All vapor samples were collected in Summa canisters and analyzed at an offsite fixed laboratory for VOCs by EPA Method TO-15. Vapor probes were installed and sampled in accordance with the Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board – Los Angeles Region (LARWQCB) *Advisory – Active Soil Gas Investigations (2012)* protocol (Advisory).

Probe Installation: At each of the boring locations, dual-nested vapor probes were installed at depths 3 and 6.5 feet bgs in Borings B102 and B103, and at 4 and 8 feet bgs in Borings B104 and B105. The depths of the probes were dependent on the depths of the borings and the depth to groundwater. Each vapor probe was placed within a one-foot #3 sand pack. One foot of dry granular bentonite was placed on top of each sand pack to preclude the infiltration of hydrated bentonite grout. The boreholes were then grouted between probes and to the surface with hydrated bentonite. Teflon® tubing (¼ inch) was connected from the vapor point to the surface. The end of the tubing was labeled with the vapor well number and depth, and a three-way valve was installed to eliminate ambient air diffusion into the well. Soil vapor wells, once set, were allowed to equilibrate for a minimum of 48 hours prior to sample collection. To allow future sampling of the probes, the probes were protected within a 6-inch well box installed at the surface of each boring location. The well box was secured in concrete flush with the street surface. All reusable vapor probe components were decontaminated prior to use at each vapor sample location.

Purge Volume Test: On January 19, 2015, a three-volume purge test (one, three, and ten purge volumes) was conducted at sampling location B103-3' to establish the optimal purge volume to be used for the probes in accordance with the Advisory. The purge volume samples were collected in 1-liter Summa canisters. The purge flow rate was approximately 200 milliliters per minute (mL/min). Based on the purge volume test, the optimal purge volume was determined to be one purge volume.

Sample Collection: On January 20, 2015, following the purge volume test, vapor samples were collected from the remaining probes using 1-liter Summa canisters. After conducting a shut-in vacuum test, the samples were collected through a valve connected to the tubing attached at the top of each probe, withdrawing each sample at a rate of 200 mL/min. A duplicate vapor sample was collected from probe B102-6.5. The samples were immediately transported to a California certified environmental laboratory for VOC analysis, in accordance with the Advisory. All soil vapor samples collected were documented on a chain-of-custody form.

Leak Test: A leak test was conducted at each soil vapor probe location to determine if leakage was present at the boring surface. N-Propanol and n-pentane were used as the source of the tracer compound. The tracer gas compounds were not detected in any of the soil vapor samples.

Laboratory Analysis: The soil vapor samples collected for this investigation were analyzed for VOCs by EPA Method TO-15 by the offsite California certified laboratory. The laboratory analytical reports and chain-of-custody documentation for the soil vapor samples are presented in Appendix D. The soil-vapor sample results are summarized in Table 3. The maximum VOC of concern detected for each boring are depicted in Figure 3.

4.3 Offsite Well Installations and Soil Sample Analysis on Culver Boulevard

On January 26, 2015, Alta drilled and installed Wells MW7 and MW8 in the left southwest-bound lane of Culver Boulevard. The well locations are shown on Figures 4 through 13. The wells were drilled and installed using a hollow-stem auger drilling rig equipped with 10-inch-diameter augers. The borings for the groundwater monitoring wells were each drilled to 19.5 feet bgs. The upper five feet of each boring was hand-augered for additional utility clearance purposes.

4.3.1 Soil Sample Collection and Analyses

Soil samples for geologic logging and laboratory analysis were collected at 2.5, 5, 10, 15, and 18 feet bgs, and at changes in lithology or observed contamination by driving a modified California split-spoon

sampler into the undisturbed ground. Prior to drilling, the augers were decontaminated with a steam-cleaning unit over an auger rack that permits collection of decontamination water. Before each soil sample was collected, the sampling equipment was decontaminated with a three-bucket wash consisting of a non-phosphate cleaning solution, tap water, and a final rinse in distilled water.

Samples for VOC analysis were collected at or above the water surface at 2.5, 5, and 10 feet bgs using pre-preserved 40-milliliter (ml) vials in accordance with EPA Method 5035 procedures. Note that due to the detection of hydrocarbon odors at Boring MW8 at 2 feet bgs, a brass sleeve was inserted into the teeth of the hand auger and a soil sample for TPH analysis was collected. The sleeve was capped with Teflon sheeting and sealed with polyurethane end-caps. All samples were labeled with the well identification number and depth, and date and time of collection. Following collection, each sample was stored in ziplock bags and placed in portable cooler maintained at 4 degrees Celsius, and transported to a California certified environmental laboratory on the same day of collection. The samples were recorded on a chain-of-custody record identifying the sample identification, date and time of collection, sample matrix and containers, preservative, requested analyses, sampler's name, couriers used, and responsible laboratory personnel.

The soil samples were logged in accordance with the USCS by a PG. The volatile organic vapor concentration of each soil sample was screened using a PID calibrated to 50 ppm hexane. The soils were placed in a plastic bag and the PID probe was inserted into the bag, and the reading was recorded. The lithology, PID readings, field observations, and sampling depths of the borings for Wells MW7 and MW8 were documented on boring logs, included in Appendix B.

Each sample was analyzed for VOCs by EPA Method 8260B. A duplicate soil sample for VOC analyses was collected from MW8 at 2.5 feet bgs. The duplicate sample was collected using the same sampling procedures as the primary sample, and analyzed for the same laboratory analyses. The sleeve collected from MW8 at 2.5 feet bgs was analyzed for TPH as gasoline, diesel, and motor oil by EPA Method 8015B. Laboratory analytical reports and chain-of-custody documentation for the soil samples are presented in Appendix C. A summary of the VOC analyses are provided in Table 4.

4.3.2 Well Installation

Following the drilling and soil sampling, 4-inch-diameter Schedule 40 PVC blank and 0.01-inch screened casings were installed in each boring. The depths of the screened intervals were dependent on the depth to water and boring lithology. The wells were screened from 9 to 19 feet bgs. The top of the screened intervals were placed slightly above the observed groundwater surface. The bottom of the screened intervals were placed at the top of the underlying clay layer at the base of the aquifer. Note that as indicated in the Regional Board Comments section of the LARWQCB approval letter dated September 15, 2014: "The tops of well screens in the proposed off-site wells shall not extent to depths of shallower than 10 feet bgs". Because groundwater was encountered during drilling at 10 to 11 feet, due to the necessity to install the top of the screen slightly above the water table, Alta consulted with the LARWQCB onsite representative (Jeff Brooks) regarding the depth to the top of the screen interval. Mr. Brooks granted approval to install the top of the screen at 9 feet bgs, with the hydrated bentonite seal installed at 1.5 to 8 feet bgs.

The annular space of the wells were backfilled with #2/12 sand filter to one foot above the top of the screened interval. The screened sections were surged with a surge block to allow the sand pack to settle, and additional sand was added to approximately one foot above the top of the perforated interval. A hydrated bentonite seal was then placed on the sand from approximately 1.5 to 8 feet bgs. An approximately 6-inch thick layer of concrete was then placed on the bentonite. Each well was completed

in a 12-inch-diameter, traffic-rated well box secured with concrete, set flush with the street surface. The well construction details are included on the boring and well installation logs, included in Appendix B.

4.3.3 Well Development

On January 29, 2015, the wells were developed using a stainless steel bailer and surge block situated on a well development rig. Approximately 40 to 50 gallons of groundwater were removed from each well. Due to the poor conductivity of the aquifer and lack of available groundwater, the wells were bailed dry several times. The pH, electrical conductivity (EC), temperature, turbidity, total dissolved solids, and depth to groundwater were monitored during well development. Turbidity levels were lowered to 404 and 795 nephelometric turbidity units (NTUs) in Wells MW7 and MW8, respectively. Turbidity levels could not be lowered further due to the time constraints allowed in the LADPW permit. The measured groundwater parameters, static groundwater levels, casing diameters and total depths, and total gallons removed were documented and recorded on the Well Development Records provided in Appendix E. The removed water was placed in DOT-approved 55-gallon drums pending disposal.

4.3.4 Well Survey

On February 2 through 4, 2015, the new and existing groundwater monitoring wells were surveyed by a California-licensed land surveyor. The top of the well casings and rim and the horizontal coordinates of each well were surveyed relative to the City of Los Angeles Benchmark Number 11028 utilizing Differential Global Positioning System technology. The northing and easting of each well were measured using the California State Plane (NAD83) system, with the vertical datum measured in feet above mean sea level. On February 2 through 4, 2015, the horizontal coordinates of previous borings drilled onsite and the borings on Panama Street were also surveyed. The top of casing elevations for the five wells are documented on Table 5. The final survey report is included in Appendix F.

4.4 First Quarter 2015 Groundwater Monitoring

On February 2, 2015, groundwater monitoring was performed at each of the existing onsite wells (GW1, GW2, and GW3) and the newly installed offsite wells (MW7 and MW8). Groundwater monitoring and sampling procedures were conducted in general accordance with the United States Environmental Protection Agency's *Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* guidance document, dated July 30, 1996, revised January 19, 2010. Traffic control was set up on Culver Boulevard while Wells MW7 and MW8 were purged and sampled.

4.4.1 Groundwater Elevations

Prior to sampling each well, depth to groundwater was measured using an electronic interface probe referenced to the survey mark at the top of each well casing. The total well depth was also measured by lowering the interface probe to the bottom of each well. Groundwater elevations were calculated by subtracting the water table depth from the top-of-casing elevations. The groundwater gradient and flow direction were calculated using these water-table elevations. A summary of the top of casing elevations, depth to groundwater, and the groundwater elevations in each well are provided on Table 5. The groundwater elevations, equipotential contours, and the groundwater gradient and flow direction are illustrated on Figure 13.

4.4.2 Well Purging and Sampling

Following groundwater elevation measurements, each well was purged using a low-flow, variable-rate submersible pump and new, teflon-lined polyethylene tubing. Purge water was pumped via flexible

discharge tubing into a five-gallon bucket and then emptied into a 55-gallon DOT-approved drum for storage and subsequent disposal. During purging, pH, electrical conductivity (EC), temperature, turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured using a flow-through cell water-quality meter. Each well was purged until these parameters stabilized, and until the turbidity was lowered to less than 16 nephelometric turbidity units (NTUs) or until stable. The well purging parameters and approximate volume of water purged were recorded on the Groundwater Monitoring Well Purging Records, included in Appendix G.

Groundwater samples were collected using a new disposable polyethylene bailer after these parameters stabilized, indicating that representative formation water was entering the well. The groundwater samples were slowly decanted into laboratory provided sample containers, sealed with Teflon®-lined septa, properly labeled, placed on ice in a portable cooler maintained at 4 degrees Celsius, and transported on the same day of sample collection to the laboratory for analysis. The samples were recorded on a chain-of-custody record identifying the sample identification, date and time of collection, sample matrix and containers, preservative, requested analyses, sampler's name, couriers used, and responsible laboratory personnel. In addition to the primary groundwater monitoring samples, a duplicate sample (collected from GW3), and a trip blank (TB) and equipment blank (EB) sample were also collected.

Before each well was measured or purged, the meters and pump used during this sampling event were decontaminated using a three-bucket wash consisting of a phosphate-free cleaning solution, followed by rinsing in tap and distilled water.

4.4.3 Groundwater Sample Analyses

Groundwater samples collected during this investigation were submitted to Eurofins/Calscience for the following analyses:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B;
- 1,4-dioxane by EPA Method 8270C;
- Title 22 metals by EPA Method 6010B/7470A;
- Dissolved gases (methane, ethene, ethane, and carbon dioxide) by Method RSK-175M;
- Total dissolved iron and manganese by EPA Method 6010B;
- Sulfate, nitrate, and chloride by EPA Method 300;
- Boron by EPA Method 200.7;
- Total dissolved solids (TDS) by SM 2540C;
- Total organic carbon (TOC) by SM 5310D;
- Total alkalinity/carbonate/bicarbonate (each as calcium carbonate) by Standard Method 2320B; and
- Total sulfide by Standard Method 4500-S2-D.

The trip and equipment blank samples were analyzed for VOCs by EPA Method 8260B only. A summary of the groundwater sample results are included in Tables 6 through 9. The VOC results are plotted and contoured on Figure 13. Laboratory reports and chain-of-custody documents are presented in Appendix H.

4.5 Investigation-derived Waste Disposal

Investigation-derived wastes (soil cuttings, decontamination water, and well development and purge water) generated during the field operations were placed in 55-gallon Department of Transportation (DOT) drums and temporarily stored on-site, pending disposal. The drum contents are being profiled and will be transported and disposed at an approval disposal facility after profiling is completed.

5. FINDINGS AND CONCLUSIONS

5.1 Lithology

Soils encountered at Borings B102 to B105 to the depths explored (10.5 feet bgs) consisted predominantly of silty clays and silty fat clays, with scattered coarse sand gravel. The upper 5 to 7 feet of soils are suspected to be fill material, which was encountered in all borings. The soils become more plastic and wet with depth. Very wet to saturated soils, interpreted to be the uppermost groundwater beneath the site, were encountered in Borings B104 and B105 at approximately 9 and 10 feet bgs. No staining or odors were noted in any of the Panama Street borings. No significant PID readings were detected.

Soils encountered in the borings for Wells MW7 and MW8 consisted of clays and silts to approximately 9 to 10 feet bgs, underlain by water-saturated silty fine sand with fine to medium-grained sand interbeds to approximately 19 feet bgs. Fat clays were encountered at the bottom of each boring at 19 to 19.5 feet bgs. Groundwater was encountered at approximately 10 to 11 feet bgs. No staining or odors were noted in either boring, except for hydrocarbon odors in shallow fill soils detected in the upper two feet of the boring for MW8. No significant PID readings were detected.

5.2 Laboratory Results of Soil-Matrix Samples

A tabulated summary of the laboratory analytical results for VOCs and Title 22 metals in the soil-matrix of the Panama Street borings are provided in Tables 1 and 2, respectively. A summary of the soil-matrix concentrations from Borings MW7 and MW8 are provided in Table 4.

Updated soil plume maps showing the distribution, extent, and isoconcentration contours of PCE, TCE, and cis-1,2-DCE at 2.5, 5, and 10 feet bgs, and the locations of Borings B102 to B105 and Wells MW7 and MW8, are provided on Figures 4 through 12. Note that these figures illustrate the interpreted isoconcentration contours at the Attenuation Factor Soil Screening Levels (AF-SSLs) calculated using the LARWQCB's attenuation factor for each compound and depth, showing the areas that are above AF-SSLs for PCE, TCE, and cis-1,2-DCE. The isoconcentration contours at the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) May 2013 Tier 1 Environmental Screening Levels (ESLs), using Summary Table A - ESLs in Shallow Soils, Groundwater is Current or Potential Source of Drinking Water (SFRWQCB-ESLS) for each compound are also shown.

A summary of the soil analytical results from Borings B102 through B105, MW7, and MW8 are provided below.

5.2.1 Volatile Organic Compounds

- Trace concentrations of PCE were detected in sample B104-10 (0.18J micrograms per kilogram [$\mu\text{g/kg}$], and MW7-2.5, MW7-5, and MW7-10 at 0.68J to 1.6 $\mu\text{g/kg}$. No PCE concentrations were detected above Method Detection Limits (MDLs) in any other soil samples. The trace detections at 10 feet bgs in B104 and MW7 are likely due to the presence of low PCE concentrations in groundwater originating from the subject site.

- As indicated on Figures 4, 5, and 6, and based on the laboratory analytical results, the north-northwestern and southeastern extent of the PCE concentrations in the upper 10 feet of soil is sufficiently defined. None of the PCE concentrations detected during this investigation exceed their respective AF-SSLs.
- No concentrations of trichloroethene (TCE) or cis-1,2-dichloroethene (cis-1,2-DCE) were detected above MDLs in any of the soil samples. As indicated on Figures 7 through 12, the north-northwestern and southeastern extent of TCE and cis-1,2-DCE concentrations in the soil matrix are defined.
- Trace levels of benzene were detected in six soil samples, ranging from 0.11J µg/kg to 0.33J µg/kg, the highest concentration of which is well below the AF-SSLs of 4.0 µg/kg to 6.0 µg/kg for the subject site. The benzene concentrations are also below US Environmental Protection Agency – Region 9 Regional Screening Levels, and the SFRWQCB-ESLs (residential or industrial scenarios).
- Trace to low levels of acetone, carbon disulfide, chlorobenzene, and 1,4-dichlorobenzene were also detected in at least one sample, the highest concentrations of which are below US Environmental Protection Agency – Region 9 Regional Screening Levels, and SFRWQCB-ESLs (residential or industrial scenarios).
- No concentrations of TPH as gasoline, diesel, or motor oil were detected in the sample collected at MW8-2.5. Due to the absence of TPH concentrations, and the low to nondetectable VOC concentrations in soil samples from boring MW8, the noted hydrocarbon odors in the upper two feet of MW8 is not significant.

5.2.2 Metals (Panama Street Borings)

- Concentrations of Title 22 Metals from Borings B102 to B105 drilled on Panama Street were reported below the 2010 California Office of Environmental Health Hazard Assessment's (OEHHA) California Human Health Screening Levels (CHHSLs, commercial/industrial scenario) and the SFRWQCB-ESLs (commercial/industrial scenario), with the exception of arsenic in all soil samples (Table 2). Detected concentrations of arsenic ranged from 9.11 mg/kg (B105-5) to 25.9 mg/kg (B104-2.5). The elevated arsenic concentrations in shallow soils may be related to the presence of fill above the suspected storm drain. Note that arsenic is a naturally occurring metal in southern California soils and elevated concentrations of arsenic are frequently encountered. Soil samples collected from Borings MW7 and MW8 were not analyzed for Title 22 metals.

5.3 Laboratory Results of Soil-Vapor Samples (Panama Street Borings)

- As indicated on Table 3, low concentrations of PCE were detected in all soil-vapor samples collected, ranging from 0.018 µg/l to 0.285 µg/l. The highest PCE concentrations were detected in vapor probe B105 at 8 feet bgs. Reported PCE concentrations were below the 2010 industrial CHHSLs (non-engineered soils) in all vapor probes, and were also below the 2010 residential CHHSLs (for non-engineered soils) in all probes except for B102-6.5 and B105-8. None of the PCE concentrations in shallow probes exceeded residential (0.180 µg/l) or industrial (0.603 µg/l) CHHSLs.
- Note that PCE was detected at slightly higher concentrations in the deeper probes than in the corresponding shallow probes at the same locations. This may be due to the presence of PCE vapors slightly above the capillary fringe, on the outer fringes of the dissolved-phase PCE plume.

- As indicated on Figure 3, the full lateral extent of detectable PCE concentrations in soil-vapor was not fully defined to the north. However, PCE concentrations decrease significantly north of Building #1, and the northern extent of PCE concentrations that exceed the residential CHHSL of 0.180 µg/l in shallow probes were also defined.
- Low concentrations of TCE were detected in only one probe, B105-8 at 0.019 µg/l. This concentration is below the 2010 residential and industrial CHHSLs.
- Degradation compounds of TCE (cis-1,2-DCE and vinyl chloride) were not detected in any of the vapor samples.
- Trace concentrations of benzene were detected in all probes except B103-3, ranging from 0.008 µg/l to 0.030 µg/l. Reported benzene concentrations were below the 2010 residential and industrial CHHSLs (non-engineered soils) in all vapor probes.
- Other VOCs detected that also have listed CHHSLs include ethylbenzene (maximum concentration of 0.238 µg/l), toluene (maximum concentration of 0.186 µg/l), and total xylenes (maximum concentration of 0.881 µg/l). These concentrations are well below the corresponding residential and industrial CHHSLs.
- Other VOCs that were detected in at least one sample that do not have listed CHHSL values include 2-butanone (MEK), chloroform, cyclohexane, dibromochloromethane, ethanol, 4-ethyltoluene, freon 113, heptane, hexane, 2-hexanone, isopropyl alcohol, methylene chloride, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene. The concentrations of these VOCs are very low and not considered significant. Note that the majority of VOCs detected in vapor samples collected from Borings B102 through B105 were also detected in onsite samples by Alta (2013) or by GeoSyntec (2014).

5.4 First Quarter 2015 Groundwater Monitoring Results

- The depth to groundwater in Wells GW1, GW2, GW3, MW7, and MW8 measured on February 2, 2015 ranged from 9.85 to 12.20 feet below top of casing (Table 5). The depths to groundwater in Wells GW1, GW2, and GW3 increased by an average of 0.31-foot since the previous measurements on October 13, 2014. As indicated on Figure 13, the groundwater flow direction is to the southwest at a gradient of 0.0034 feet per foot, similar to the results of the previous event.
- Concentrations of VOCs were reported below California Department of Public Health Maximum Contaminant Levels (MCLs), with the exception of PCE, TCE, and cis-1,2-dichloroethene.
- Concentrations of PCE were detected in Wells GW1, GW3, and MW7 at 21 µg/l, 140 µg/l (primary and duplicate samples), and 4.5 µg/l, respectively. The PCE concentration in GW3 increased since the previous event from 27 µg/l (25 µg/l in the duplicate) to 140 µg/l, the highest detected concentration to date for this well. The increase of PCE concentrations in this well is likely due to the rise of the water table.
- Low concentrations of TCE were detected in all five wells, ranging from 0.66J µg/l to 8.4 µg/l. The highest concentration of 8.4 µg/l was detected in down-gradient Well GW1, which is similar to the concentration of the previous event (8.2 µg/l).
- Concentrations of cis-1,2-DCE were detected only in down-gradient Well GW1, at 23 µg/l. This concentration is also similar to the concentration detected in this well during the previous event (26 µg/l).

- The lateral extent of detectable PCE, TCE, and/or cis-1,2-DCE concentrations are defined to the west (cross-gradient, beneath Building #1) and to the north and northeast (up-gradient). The cross-gradient extent to the southeast in the vicinities of Wells MW7 and MW8 has been sufficiently defined. The down-gradient extent to the southwest has not been defined. The highest PCE, TCE, and/or cis-1,2-DCE concentrations are located onsite, extending from the central portion of the Site (hazardous waste storage yard) to the southwest in the down-gradient direction.
- No concentrations of 1,4-dioxane were detected in any of the wells during this sampling event. Since the previous event, 1,4-dioxane concentrations decreased in down-gradient Well GW1 from 1.3 µg/l to below detection limits (Table 7).
- As indicated on Table 8, low concentrations of barium, molybdenum, selenium, thallium, vanadium, and zinc were detected in all five wells. Similar to the previous event, only thallium was detected above MCLs, at maximum concentrations of 0.00502J milligrams per liter (mg/l) (MW7). The concentrations of Title 22 Metals detected in the groundwater samples are considered to be within background levels for the uppermost groundwater zone in the Site vicinity.
- The presence of cis-1,2-DCE likely indicates that biological degradation of TCE has occurred. As TCE degrades, cis-1,2-DCE concentrations will appear, followed by the appearance of vinyl chloride. Vinyl chloride has not been detected in any of the groundwater monitoring wells at the site. The only detection of vinyl chloride has been at hydro-punch sampling location B43A, which exhibited a trace concentration of 1.10J µg/l (sampled June 6, 2013).
- The pH levels measured in the five wells (7.01 to 7.17, measured at the end of purging) are in the range for optimal microbial growth to occur.
- Significant total organic carbon (TOC) concentrations were detected, ranging from 30 mg/l to 46 mg/l. This likely indicates the presence of significant microbial populations in the aquifer.
- Elevated concentrations of carbon dioxide were detected, ranging from 22.1 mg/l to 37.9 mg/l. Carbon dioxide is a byproduct of microbe respiration, indicating that microbe respiration processes may be occurring.
- The presence of sulfate (180 mg/l to 350 mg/l) may indicate that the anaerobic microbes are using sulfate as an electron receptor.
- A summary of the monitored natural attenuation parameters are included in Table 9.

The above conclusions regarding monitored natural attenuation parameters are still preliminary, based on only five wells and two sampling events. More conclusive interpretations can be made from additional wells (to be installed offsite in accordance with the approved investigation Work Plan) monitored over a longer period of time.

6. RECOMMENDATIONS

Alta is in the process of obtaining access permits from Caltrans for the remaining four offsite wells (PMW4, PMW5, PMW6, and PMW9) and two borings (PB106 and PB110). After the access permit from Caltrans is obtained, Alta recommends that the remainder of the proposed investigation detailed in the Work Plan dated August 29, 2014, and as approved with conditions in the LARWQCB letter dated September 15, 2014 be implemented.

Based on the findings and conclusions noted above, Alta believes the extent of VOCs in soil matrix and soil vapor has been sufficiently assessed north of Building #1 beneath Panama Street, and does not believe that additional offsite investigation in this area is necessary. The extent of VOCs in soil matrix and groundwater beneath Culver Boulevard to the southeast has also been adequately assessed.

REFERENCES

1. Alta Environmental, *Site Assessment Report*, Panama Street Site, 12922 Panama Street Los Angeles, California, August 15, 2014.
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3. Alta Environmental, *Assessment Report – Delineation of Lateral and Vertical Extent of Contamination*, Panama Street Site, 12908, 12910, 12918, 12922, 12930, 12950 and 12964 Panama Street, Los Angeles, California, December 15, 2014.
4. California Department of Water Resources (DWR), Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, Bulletin Number 104, 1961.
5. California Environmental Protection Agency (CalEPA), *Revised California Human Health Screening Levels for Lead*, September, 2009.
6. CalEPA, *Use of California Human Health Screening Levels in Evaluation of Contaminated Properties*, January, 2005.
7. California Regional Water Quality Control Board, Los Angeles Region (RWQCB), *Interim Site Assessment and Cleanup Guidebook*, May, 1996.
8. California Regional Water Quality Control Board, San Francisco Bay Region, *Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater*, Interim Final (Revised May 2008), using Summary Table A – Environmental Screening Levels (updated May 2013).
9. Department of Toxic Substances Control/California Regional Water Quality Control Board – Los Angeles and San Francisco Region (DTSC/LARWQCB), *Advisory – Active Soil Gas Investigations*; April 2012.
10. Environ, *Phase I Environmental Site Assessment, Teledyne Electronic Technologies, 12964, 12950, 12930, 12922, 12918, 12910, and 12908 Panama Street, Los Angeles Ca*, Draft.
11. United States Environmental Protection Agency, *Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* guidance document, dated July 30, 1996, revised January 19, 2010.

TABLES

TABLE 1
Soil Matrix Sample Results for VOCs
Panama Street Borings
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID:		B102-2.5	B102-5.0	B103-2.5	B103-5.0
	Date:		1/14/2015	1/14/2015	1/14/2015	1/14/2015
	MDL (µg/kg):	RL (µg/kg):	VOC Concentration (µg/kg)			
Acetone	4.7-6.2	38-50	7.8J	8.2J	27J	18J
Benzene	0.098-0.13	0.75-1.0	ND	0.13J	ND	ND
Bromobenzene (Phenyl bromide)	0.16-0.21	0.75-1.0	ND	ND	ND	ND
Bromochloromethane	0.52-0.69	1.5-2.0	ND	ND	ND	ND
Bromodichloromethane	0.18-0.23	0.75-1.0	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.6-0.79	3.8-5.0	ND	ND	ND	ND
Bromomethane (Methyl bromide)	7.1-9.4	15-20	ND	ND	ND	ND
2-Butanone (MEK)	2.8-3.8	15-20	ND	ND	ND	ND
n-Butylbenzene	0.12-0.16	0.75-1.0	ND	ND	ND	ND
sec-Butylbenzene	0.44-0.58	0.75-1.0	ND	ND	ND	ND
tert-Butylbenzene	0.11-0.15	0.75-1.0	ND	ND	ND	ND
Carbon Disulfide	0.23-0.31	7.5-10	ND	ND	ND	ND
Carbon tetrachloride	0.21-0.28	0.75-1.0	ND	ND	ND	ND
Chlorobenzene	0.17-0.22	0.75-1.0	ND	ND	ND	ND
Chloroethane	1.1-1.5	1.5-2.0	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.18-0.24	0.75-1.0	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.23-0.3	15-20	ND	ND	ND	ND
2-Chlorotoluene	0.17-0.23	0.75-1.0	ND	ND	ND	ND
4-Chlorotoluene	0.16-0.21	0.75-1.0	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.3-1.7	3.8-5.0	ND	ND	ND	ND
Dibromochloromethane	0.43-0.57	1.5-2.0	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.19-0.255	0.75-1.0	ND	ND	ND	ND
Dibromomethane	0.58-0.77	0.75-1.0	ND	ND	ND	ND
1,2-Dichlorobenzene	0.17-0.23	0.75-1.0	ND	ND	ND	ND
1,3-Dichlorobenzene	0.13-0.18	0.75-1.0	ND	ND	ND	ND
1,4-Dichlorobenzene	0.17-0.22	0.75-1.0	ND	ND	ND	ND
Dichlorodifluoromethane	0.33-0.44	1.5-2.0	ND	ND	ND	ND
1,1-Dichloroethane	0.16-0.21	0.75-1.0	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.24-0.31	0.75-1.0	ND	ND	ND	ND
1,1-Dichloroethene	0.26-0.35	0.75-1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.21-0.28	0.75-1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.38-0.51	0.75-1.0	ND	ND	ND	ND
1,2-Dichloropropane	0.33-0.44	0.75-1.0	ND	ND	ND	ND
1,3-Dichloropropane	0.19-0.25	0.75-1.0	ND	ND	ND	ND
2,2-Dichloropropane	0.25-0.33	3.8-5.0	ND	ND	ND	ND
1,1-Dichloropropene	0.25-0.33	1.5-2.0	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.19-0.25	0.75-1.0	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.46-0.61	1.5-2.0	ND	ND	ND	ND
Ethylbenzene	0.11-0.15	0.75-1.0	ND	ND	ND	ND
2-Hexanone	1.3-1.8	15-20	ND	ND	ND	ND
Isopropylbenzene	0.41-0.55	0.75-1.0	ND	ND	ND	ND
p-Isopropyltoluene	0.47-0.63	0.75-1.0	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	3.3-4.3	15-20	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.22-0.3	1.5-2.0	ND	ND	ND	ND
Methylene chloride (DCM)	1.0-1.3	7.5-10	ND	ND	ND	ND
Naphthalene	0.64-0.81	7.5-10	ND	ND	ND	ND
n-Propylbenzene	0.38-0.5	1.5-2.0	ND	ND	ND	ND
Styrene	0.54-0.6	0.75-1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.18-0.24	0.75-1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.26-0.35	1.5-2.0	ND	ND	ND	ND
Tetrachloroethene	0.16-0.21	0.75-1.0	ND	ND	ND	ND
Toluene (Methyl benzene)	0.39-0.52	0.75-1.0	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.69-0.91	1.5-2.0	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.23-0.31	1.5-2.0	ND	ND	ND	ND
1,1,1-Trichloroethane	0.17-0.23	0.75-1.0	ND	ND	ND	ND
1,1,2-Trichloroethane	0.27-0.35	0.75-1.0	ND	ND	ND	ND
Trichloroethene	0.23-0.3	1.5-2.0	ND	ND	ND	ND
Trichlorofluoromethane	0.28-0.38	7.5-1.0	ND	ND	ND	ND
1,2,3-Trichloropropane	0.63-0.83	1.5-2.0	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.44-0.59	1.5-2.0	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.41-0.55	1.5-2.0	ND	ND	ND	ND
Vinyl Acetate	3.6-4.7	7.5-10	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.38-0.5	0.75-1.0	ND	ND	ND	ND
o-Xylene	0.42-0.56	0.75-1.0	ND	ND	ND	ND
m,p-Xylenes	0.2-0.27	1.5-2.0	ND	ND	ND	ND
Dilution Factor:			1	1	1	1

NOTES:

VOC = Volatile Organic Compound

RL = Reporting Limit

MDL = Method Detection Limit

ND = Indicated constituents not detected above the MDL

µg/kg = micrograms per kilogram

J = Analyte detected; However result is an estimated value between the MDL and the RL

TABLE 1
Soil Matrix Sample Results for VOCs
Panama Street Borings
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID:		B104-2.5	B104-5.0	B104-10	B105-2.5	B105-5.0	B105-5.0-DUP
	Date:		1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015	1/15/2015
	MDL (µg/kg):	RL (µg/kg):	VOC Concentration (µg/kg)					
Acetone	4.7-6.2	38-50	ND	12J	7.5J	7.6J	10J	13J
Benzene	0.098-0.13	0.75-1.0	0.11J	ND	ND	ND	0.33J	0.21J
Bromobenzene (Phenyl bromide)	0.16-0.21	0.75-1.0	ND	ND	ND	ND	ND	ND
Bromochloromethane	0.52-0.69	1.5-2.0	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.18-0.23	0.75-1.0	ND	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.6-0.79	3.8-5.0	ND	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	7.1-9.4	15-20	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	2.8-3.8	15-20	ND	ND	ND	ND	ND	ND
n-Butylbenzene	0.12-0.16	0.75-1.0	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.44-0.58	0.75-1.0	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	0.11-0.15	0.75-1.0	ND	ND	ND	ND	ND	ND
Carbon Disulfide	0.23-0.31	7.5-10	0.78J	ND	ND	ND	ND	ND
Carbon tetrachloride	0.21-0.28	0.75-1.0	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.17-0.22	0.75-1.0	ND	ND	ND	ND	ND	0.21J
Chloroethane	1.1-1.5	1.5-2.0	ND	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.18-0.24	0.75-1.0	ND	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.23-0.3	15-20	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	0.17-0.23	0.75-1.0	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	0.16-0.21	0.75-1.0	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.3-1.7	3.8-5.0	ND	ND	ND	ND	ND	ND
Dibromochloromethane	0.43-0.57	1.5-2.0	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.19-0.255	0.75-1.0	ND	ND	ND	ND	ND	ND
Dibromomethane	0.58-0.77	0.75-1.0	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.17-0.23	0.75-1.0	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.13-0.18	0.75-1.0	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.17-0.22	0.75-1.0	ND	ND	ND	ND	0.21J	ND
Dichlorodifluoromethane	0.33-0.44	1.5-2.0	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.16-0.21	0.75-1.0	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.24-0.31	0.75-1.0	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.26-0.35	0.75-1.0	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.21-0.28	0.75-1.0	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.38-0.51	0.75-1.0	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.33-0.44	0.75-1.0	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.19-0.25	0.75-1.0	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.25-0.33	3.8-5.0	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.25-0.33	1.5-2.0	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.19-0.25	0.75-1.0	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.46-0.61	1.5-2.0	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.11-0.15	0.75-1.0	ND	ND	ND	ND	ND	ND
2-Hexanone	1.3-1.8	15-20	ND	ND	ND	ND	ND	ND
Isopropylbenzene	0.41-0.55	0.75-1.0	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.47-0.63	0.75-1.0	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	3.3-4.3	15-20	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.22-0.3	1.5-2.0	ND	ND	ND	ND	ND	ND
Methylene chloride (DCM)	1.0-1.3	7.5-10	ND	ND	ND	ND	ND	ND
Naphthalene	0.64-0.81	7.5-10	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.38-0.5	1.5-2.0	ND	ND	ND	ND	ND	ND
Styrene	0.54-0.6	0.75-1.0	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.18-0.24	0.75-1.0	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.26-0.35	1.5-2.0	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.16-0.21	0.75-1.0	ND	ND	0.18J	ND	ND	ND
Toluene (Methyl benzene)	0.39-0.52	0.75-1.0	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.69-0.91	1.5-2.0	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.23-0.31	1.5-2.0	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.17-0.23	0.75-1.0	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.27-0.35	0.75-1.0	ND	ND	ND	ND	ND	ND
Trichloroethene	0.23-0.3	1.5-2.0	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.28-0.38	7.5-1.0	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.63-0.83	1.5-2.0	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.44-0.59	1.5-2.0	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.41-0.55	1.5-2.0	ND	ND	ND	ND	ND	ND
Vinyl Acetate	3.6-4.7	7.5-10	ND	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.38-0.5	0.75-1.0	ND	ND	ND	ND	ND	ND
o-Xylene	0.42-0.56	0.75-1.0	ND	ND	ND	ND	ND	ND
m,p-Xylenes	0.2-0.27	1.5-2.0	ND	ND	ND	ND	ND	ND
Dilution Factor:			1	1	1	1	1	

NOTES:

VOC = Volatile Organic Compound

RL = Reporting Limit

MDL = Method Detection Limit

ND = Indicated constituents not detected above the MDL

µg/kg = micrograms per kilogram

J = Analyte detected; However result is an estimated value between the MDL and the RL

TABLE 1
Soil Matrix Sample Results for VOCs
Panama Street Borings
Los Angeles, California

VOCs in Soil by EPA Method 8260B	Sample ID: B105-10	
	Date: 1/15/2015	
	MDL (µg/kg):	RL (µg/kg):
Acetone	4.7-6.2	38-50
Benzene	0.098-0.13	0.75-1.0
Bromobenzene (Phenyl bromide)	0.16-0.21	0.75-1.0
Bromochloromethane	0.52-0.69	1.5-2.0
Bromodichloromethane	0.18-0.23	0.75-1.0
Bromoform (Tribromomethane)	0.6-0.79	3.8-5.0
Bromomethane (Methyl bromide)	7.1-9.4	15-20
2-Butanone (MEK)	2.8-3.8	15-20
n-Butylbenzene	0.12-0.16	0.75-1.0
sec-Butylbenzene	0.44-0.58	0.75-1.0
tert-Butylbenzene	0.11-0.15	0.75-1.0
Carbon Disulfide	0.23-0.31	7.5-10
Carbon tetrachloride	0.21-0.28	0.75-1.0
Chlorobenzene	0.17-0.22	0.75-1.0
Chloroethane	1.1-1.5	1.5-2.0
Chloroform (Trichloromethane)	0.18-0.24	0.75-1.0
Chloromethane (Methyl chloride)	0.23-0.3	15-20
2-Chlorotoluene	0.17-0.23	0.75-1.0
4-Chlorotoluene	0.16-0.21	0.75-1.0
1,2-Dibromo-3-chloropropane (DBCP)	1.3-1.7	3.8-5.0
Dibromochloromethane	0.43-0.57	1.5-2.0
1,2-Dibromoethane (EDB)	0.19-0.255	0.75-1.0
Dibromomethane	0.58-0.77	0.75-1.0
1,2-Dichlorobenzene	0.17-0.23	0.75-1.0
1,3-Dichlorobenzene	0.13-0.18	0.75-1.0
1,4-Dichlorobenzene	0.17-0.22	0.75-1.0
Dichlorodifluoromethane	0.33-0.44	1.5-2.0
1,1-Dichloroethane	0.16-0.21	0.75-1.0
1,2-Dichloroethane (EDC)	0.24-0.31	0.75-1.0
1,1-Dichloroethene	0.26-0.35	0.75-1.0
cis-1,2-Dichloroethene	0.21-0.28	0.75-1.0
trans-1,2-Dichloroethene	0.38-0.51	0.75-1.0
1,2-Dichloropropane	0.33-0.44	0.75-1.0
1,3-Dichloropropane	0.19-0.25	0.75-1.0
2,2-Dichloropropane	0.25-0.33	3.8-5.0
1,1-Dichloropropene	0.25-0.33	1.5-2.0
cis-1,3-Dichloropropene	0.19-0.25	0.75-1.0
trans-1,3-Dichloropropene	0.46-0.61	1.5-2.0
Ethylbenzene	0.11-0.15	0.75-1.0
2-Hexanone	1.3-1.8	15-20
Isopropylbenzene	0.41-0.55	0.75-1.0
p-Isopropyltoluene	0.47-0.63	0.75-1.0
4-Methyl-2-pentanone (MIBK)	3.3-4.3	15-20
Methyl-tert-butyl ether (MTBE)	0.22-0.3	1.5-2.0
Methylene chloride (DCM)	1.0-1.3	7.5-10
Naphthalene	0.64-0.81	7.5-10
n-Propylbenzene	0.38-0.5	1.5-2.0
Styrene	0.54-0.6	0.75-1.0
1,1,1,2-Tetrachloroethane	0.18-0.24	0.75-1.0
1,1,1,2,2-Tetrachloroethane	0.26-0.35	1.5-2.0
Tetrachloroethene	0.16-0.21	0.75-1.0
Toluene (Methyl benzene)	0.39-0.52	0.75-1.0
1,2,3-Trichlorobenzene	0.69-0.91	1.5-2.0
1,2,4-Trichlorobenzene	0.23-0.31	1.5-2.0
1,1,1-Trichloroethane	0.17-0.23	0.75-1.0
1,1,2-Trichloroethane	0.27-0.35	0.75-1.0
Trichloroethene	0.23-0.3	1.5-2.0
Trichlorofluoromethane	0.28-0.38	7.5-10
1,2,3-Trichloropropane	0.63-0.83	1.5-2.0
1,2,4-Trimethylbenzene	0.44-0.59	1.5-2.0
1,3,5-Trimethylbenzene	0.41-0.55	1.5-2.0
Vinyl Acetate	3.6-4.7	7.5-10
Vinyl chloride (Chloroethene)	0.38-0.5	0.75-1.0
o-Xylene	0.42-0.56	0.75-1.0
m,p-Xylenes	0.2-0.27	1.5-2.0
Dilution Factor:		1

NOTES:

VOC = Volatile Organic Compound
 RL = Reporting Limit
 MDL = Method Detection Limit
 ND = Indicated constituents not detected above the MDL
 µg/kg = micrograms per kilogram
 J = Analyte detected; However result is an estimated value between the MDL and the RL

TABLE 2
Soil Matrix Sample Results for Title 22 Metals
Panama Street Borings
Los Angeles, California

Sample ID	Title 22 Metals by EPA Method 6010B/7471A (mg/kg) and Mercury by EPA Method 7471 (mg/kg) in Soil																	
	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury (By EPA 7471)	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
MDL (mg/kg):		0.142-0.151	0.247-0.263	0.147-0.157	0.130-0.139	0.129-0.137	0.136-0.144	0.141-0.151	0.128-0.137	0.125-0.134	0.00559-0.00597	0.126-0.147	0.138-0.147	0.285-0.304	0.0816-0.087	0.144-0.154	0.135-0.143	0.169-0.180
RL (mg/kg):		0.714-0.761	0.714-0.761	0.476-0.508	0.238-0.254	0.476-0.508	0.238-0.254	0.238-0.254	0.476-0.508	0.476-0.508	0.0794-0.0847	0.238-0.254	0.238-0.254	0.714-0.761	0.238-0.254	0.714-0.761	0.238-0.254	0.952-1.020
ESLs - Commercial/Industrial:		40	0.96	1,500	8.0	12.0	750	80	230	320	10	40	150	10	40	10	200	600
B102-2.5	1/14/2015	ND	13.1	158	0.729	0.161J	42	11.8	31.9	4.25	0.0199J	0.532	35.3	ND	ND	ND	65.8	81.2
B102-5.0	1/14/2015	ND	13.2	132	0.730	0.269J	43.6	12.4	28.4	4.54	0.0220J	0.562	35.0	ND	ND	ND	64.4	87.6
B103-2.5	1/14/2015	ND	11.8	229	0.628	0.569	39.6	10.9	28.1	3.79	0.0186J	0.423	32.2	ND	ND	ND	56.5	78.5
B103-5.0	1/14/2015	ND	12.7	122	0.610	0.288J	39.9	11.1	28.9	3.53	0.0267J	0.771	33.0	ND	ND	ND	58.2	80.2
B104-2.5	1/15/2015	ND	25.9	144	0.763	0.867	49.0	23.3	38.1	5.74	0.0269J	2.64	49.7	ND	ND	ND	76.6	98.0
B104-5.0	1/15/2015	ND	11.0	118	0.539	0.304J	34.9	10.5	26.0	3.89	0.0207J	0.863	29.8	ND	ND	ND	52.3	69.0
B104-10	1/15/2015	ND	12.4	99.1	0.504	0.469J	33.3	10.0	24.3	3.85	0.0233J	0.832	29.7	ND	ND	ND	52.8	64.8
B105-2.5	1/15/2015	ND	9.84	157	0.784	0.525	48.8	12.7	37.7	6.84	0.0024J	0.976	41.3	ND	ND	ND	76.9	90.7
B105-5.0	1/15/2015	ND	9.11	92.4	0.469	0.355J	32.4	9.37	23.1	5.11	0.0254J	0.746	26.3	ND	ND	ND	47.8	61.3
B105-5.0 dup	1/15/2015	ND	14.3	139	0.729	0.320J	44.7	13.2	33.0	4.57	0.0251J	1.36	37.3	ND	ND	ND	66.8	82.4
B105-10	1/15/2015	ND	10.8	128	0.587	0.336J	39.6	11.6	27.7	4.35	0.0195J	0.859	32.2	ND	ND	ND	59.0	74.6

NOTES:

mg/kg = milligrams per kilogram

ND = Indicates constituent not detected at or above the MDL

MDL = Method Detection Limit

RL = Reporting Limit

J = Analyte detected; however result is an estimated value between the MDL and the RL

ESLs = Environmental Screening Levels, based on the CRWQCB-San Francisco Bay Region's *Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater*, using

Summary Table A (May 2013) - ESLs in Shallow Soils, Groundwater is Current or Potential Source of Drinking Water

TABLE 3
Soil Vapor Sample Results for VOCs
Panama Street Borings
Los Angeles, California

VOCs in Soil Gas by EPA Method TO-15	Sample ID:	Sample ID:	B102-3	B102-6.5	B102-6.5 DUP	B103-3 1P	B103-3 3P	B103-3 10P	B103-6.5	B104-4	B104-6	B105-4	B105-8
	Date:	Date:	1/20/2015	1/20/2015	1/20/2015	1/19/2015	1/19/2015	1/19/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015	1/20/2015
	CHHS (ug/L)	PQL (ug/L)	VOC Concentrations (ug/L)						VOC Concentrations (ug/L)				
Acetone	--	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.122	0.002	0.013	0.011	0.012	ND	ND	ND	0.024	0.030	0.018	0.025	0.008
Benzyl Chloride	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	--	0.004	ND	ND	ND	0.011	ND	ND	ND	ND	ND	ND	0.023
Bromotoluene	--	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromonethane	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	--	0.002	0.060	0.027	0.026	0.043	0.043	ND	0.061	0.039	0.04	ND	0.029
Carbon Disulfide	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.085	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	--	0.002	ND	ND	ND	0.008	0.005	0.004	ND	0.016	ND	0.010	0.017
Cyclohexane	--	0.002	ND	ND	ND	ND	ND	ND	ND	0.016	ND	ND	ND
Dibromochloromethane	--	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND
1,2-Dibromomethane	--	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.167	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
c-1,2-Dichloroethene	44.4	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,2-Dichloroethene	88.7	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,3-Dichloropropene	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	--	0.001	0.009	0.011	0.007	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl acetate	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	14.000	0.003	0.034	ND	ND	0.059	0.040	0.031	0.107	0.238	ND	0.076	ND
4-Ethyltoluene	--	0.003	0.013	ND	ND	ND	ND	ND	0.027	0.022	0.024	0.042	ND
Freon 11	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 12	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	--	0.005	ND	ND	ND	0.012	0.010	0.010	ND	0.065	0.101	0.722	0.837
Freon 114	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	--	0.002	ND	ND	ND	ND	ND	ND	ND	0.267	0.030	0.033	ND
Hexene	--	0.002	ND	ND	ND	ND	ND	ND	ND	0.061	0.043	ND	ND
5-Hexanone (MIBK)	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND
Isopropyl Alcohol	--	0.002	ND	ND	ND	ND	ND	ND	ND	0.018	ND	ND	ND
Methylene Chloride	--	0.002	ND	ND	ND	0.021	0.013	0.010	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	13.4	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.106	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylene	--	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.603	0.002	0.154	0.194	0.211	0.020	0.018	0.018	0.026	0.077	0.120	0.060	0.285
Tetrahydrofuran	--	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	378	0.002	0.074	0.026	0.027	0.157	0.101	0.075	0.186	0.158	0.056	0.186	0.043
1,2,4-Trichlorobenzene	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2.800	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	--	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1.77	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.019
1,2,4-Trimethylbenzene	--	0.003	0.029	0.010	0.010	0.042	0.021	0.024	0.043	0.009	0.010	0.056	0.013
1,3,5-Trimethylbenzene	--	0.003	ND	ND	ND	0.005	ND	0.008	ND	ND	ND	ND	ND
Vinyl Acetate	--	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.045	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	890	0.003	0.321	0.138	0.156	0.285	0.195	0.144	0.816	0.561	0.175	0.748	0.095
o-Xylene	880	0.003	0.020	0.006	0.006	0.038	0.025	0.019	0.065	0.036	0.015	0.049	0.007
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1

NOTES:
VOC - Volatile Organic Compound
PQLs - Practical Quantitation Limits
ND - Not detected at or above the PQL
P - Pump Volume
CERCLA - California Human Health Screening Levels (Commercial/Industrial Use, No Engineered Fill), updated September 23, 2010.

TABLE 4
Soil Matrix Sample Results for VOCs
Off-Site Groundwater Wells MW7 and MW8
Panama Street Site

VOCs in Soil by EPA Method 8260B	Sample ID:		MW7-2.5	MW7-5	MW7-10	MW8-2.5
	Date:		1/26/2015	1/26/2015	1/26/2015	1/26/2015
	MDL (µg/kg):	RL (µg/kg):	VOC Concentration (µg/kg)			
Acetone	4.5-5.8	36-47	6.4J	7.2J	5.3J	6.4J
Benzene	0.094-0.12	0.73-0.93	ND	ND	ND	0.20J
Bromobenzene (Phenyl bromide)	0.15-0.2	0.73-0.93	ND	ND	ND	ND
Bromochloromethane	0.5-0.64	1.5-1.9	ND	ND	ND	ND
Bromodichloromethane	0.17-0.22	0.73-0.93	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.58-0.74	3.6-4.7	ND	ND	ND	ND
Bromomethane (Methyl bromide)	6.8-8.8	15-19	ND	ND	ND	ND
2-Butanone (MEK)	2.7-3.5	15-19	ND	ND	ND	ND
n-Butylbenzene	0.11-0.15	0.73-0.93	ND	ND	ND	ND
sec-Butylbenzene	0.42-0.54	0.73-0.93	ND	ND	ND	ND
tert-Butylbenzene	0.11-0.14	0.73-0.93	ND	ND	ND	ND
Carbon Disulfide	0.22-0.29	7.3-9.3	ND	ND	ND	ND
Carbon tetrachloride	0.21-0.26	0.73-0.93	ND	ND	ND	ND
Chlorobenzene	0.16-0.21	0.73-0.93	ND	ND	ND	ND
Chloroethane	1.1-1.4	1.5-1.9	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.17-0.22	0.73-0.93	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.22-0.28	15-19	ND	ND	ND	ND
2-Chlorotoluene	0.17-0.22	0.73-0.93	ND	ND	ND	ND
4-Chlorotoluene	0.15-0.2	0.73-0.93	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.41-0.53	1.5-1.9	ND	ND	ND	ND
Dibromochloromethane	1.3-1.6	3.6-4.7	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.19-0.24	0.73-0.93	ND	ND	ND	ND
Dibromomethane	0.56-0.72	0.73-0.93	ND	ND	ND	ND
1,2-Dichlorobenzene	0.17-0.21	0.73-0.93	ND	ND	ND	ND
1,3-Dichlorobenzene	0.13-0.16	0.73-0.93	ND	ND	ND	ND
1,4-Dichlorobenzene	0.16-0.21	0.73-0.93	ND	ND	ND	ND
Dichlorodifluoromethane	0.32-0.41	1.5-1.9	ND	ND	ND	ND
1,1-Dichloroethane	0.15-0.2	0.73-0.93	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.23-0.29	0.73-0.93	ND	ND	ND	ND
1,1-Dichloroethene	0.25-0.32	0.73-0.93	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.2-0.26	0.73-0.93	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.37-0.47	0.73-0.93	ND	ND	ND	ND
1,2-Dichloropropane	0.32-0.41	0.73-0.93	ND	ND	ND	ND
1,3-Dichloropropane	0.18-0.24	0.73-0.93	ND	ND	ND	ND
2,2-Dichloropropane	0.24-0.31	3.6-4.7	ND	ND	ND	ND
1,1-Dichloropropene	0.24-0.31	1.5-1.9	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.18-0.24	0.73-0.93	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.44-0.57	1.5-1.9	ND	ND	ND	ND
Ethylbenzene	0.11-0.14	0.73-0.93	ND	ND	ND	ND
2-Hexanone	1.3-1.6	15-19	ND	ND	ND	ND
Isopropylbenzene	0.4-0.51	0.73-0.93	ND	ND	ND	ND
p-Isopropyltoluene	0.46-0.59	0.73-0.93	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.21-0.28	1.5-1.9	ND	ND	ND	ND
Methylene chloride (DCM)	0.97-1.2	7.3-9.3	ND	ND	ND	ND
Naphthalene	0.59-0.76	7.3-9.3	ND	ND	ND	ND
n-Propylbenzene	0.36-0.47	1.5-1.9	ND	ND	ND	ND
Styrene	0.44-0.56	0.73-0.93	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.17-0.22	0.73-0.93	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.25-0.32	1.5-1.9	ND	ND	ND	ND
Tetrachloroethene	0.15-0.2	0.73-0.93	0.68J	0.71J	1.6	ND
Toluene (Methyl benzene)	0.37-0.48	0.73-0.93	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.66-0.85	1.5-1.9	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.23-0.29	1.5-1.9	ND	ND	ND	ND
1,1,1-Trichloroethane	0.16-0.21	0.73-0.93	ND	ND	ND	ND
1,1,2-Trichloroethane	0.26-0.33	0.73-0.93	ND	ND	ND	ND
Trichloroethene	0.22-0.28	1.5-1.9	ND	ND	ND	ND
Trichlorofluoromethane	0.27-0.35	7.3-9.3	ND	ND	ND	ND
1,2,3-Trichloropropane	0.6-0.77	1.5-1.9	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.43-0.55	1.5-1.9	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.4-0.51	1.5-1.9	ND	ND	ND	ND
Vinyl Acetate	3.4-4.4	7.3-9.3	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.37-0.47	0.73-0.93	ND	ND	ND	ND
o-Xylene	0.19-0.25	1.5-1.9	ND	ND	ND	ND
m,p-Xylenes	0.4-0.52	0.73-0.93	ND	ND	ND	ND
Dilution Factor:			1	1	1	1

NOTES:

VOC = Volatile Organic Compound

RL = Reporting Limit

MDL = Method Detection Limit

ND = Indicated constituents not detected above the MDL

µg/kg = micrograms per kilogram

J = Analyte detected; However result is an estimated value between the MDL and the RL

TABLE 4
Soil Matrix Sample Results for VOCs
Off-Site Groundwater Wells MW7 and MW8
Panama Street Site

VOCs in Soil by EPA Method 8260B	Sample ID: MW8-2.5-DUP		MW8-5	MW8-10	
	Date:		1/26/2015	1/26/2015	
	MDL (µg/kg):	RL (µg/kg):	VOC Concentration (µg/kg)		
Acetone	4.5-5.8	36-47	8.3J	11J	ND
Benzene	0.094-0.12	0.73-0.93	0.29J	ND	ND
Bromobenzene (Phenyl bromide)	0.15-0.2	0.73-0.93	ND	ND	ND
Bromochloromethane	0.5-0.64	1.5-1.9	ND	ND	ND
Bromodichloromethane	0.17-0.22	0.73-0.93	ND	ND	ND
Bromoform (Tribromomethane)	0.58-0.74	3.6-4.7	ND	ND	ND
Bromomethane (Methyl bromide)	6.8-8.8	15-19	ND	ND	ND
2-Butanone (MEK)	2.7-3.5	15-19	ND	ND	ND
n-Butylbenzene	0.11-0.15	0.73-0.93	ND	ND	ND
sec-Butylbenzene	0.42-0.54	0.73-0.93	ND	ND	ND
tert-Butylbenzene	0.11-0.14	0.73-0.93	ND	ND	ND
Carbon Disulfide	0.22-0.29	7.3-9.3	ND	ND	ND
Carbon tetrachloride	0.21-0.26	0.73-0.93	ND	ND	ND
Chlorobenzene	0.16-0.21	0.73-0.93	ND	ND	ND
Chloroethane	1.1-1.4	1.5-1.9	ND	ND	ND
Chloroform (Trichloromethane)	0.17-0.22	0.73-0.93	ND	ND	ND
Chloromethane (Methyl chloride)	0.22-0.28	15-19	ND	ND	ND
2-Chlorotoluene	0.17-0.22	0.73-0.93	ND	ND	ND
4-Chlorotoluene	0.15-0.2	0.73-0.93	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.41-0.53	1.5-1.9	ND	ND	ND
Dibromochloromethane	1.3-1.6	3.6-4.7	ND	ND	ND
1,2-Dibromoethane (EDB)	0.19-0.24	0.73-0.93	ND	ND	ND
Dibromomethane	0.56-0.72	0.73-0.93	ND	ND	ND
1,2-Dichlorobenzene	0.17-0.21	0.73-0.93	ND	ND	ND
1,3-Dichlorobenzene	0.13-0.16	0.73-0.93	ND	ND	ND
1,4-Dichlorobenzene	0.16-0.21	0.73-0.93	ND	ND	ND
Dichlorodifluoromethane	0.32-0.41	1.5-1.9	ND	ND	ND
1,1-Dichloroethane	0.15-0.2	0.73-0.93	ND	ND	ND
1,2-Dichloroethane (EDC)	0.23-0.29	0.73-0.93	ND	ND	ND
1,1-Dichloroethene	0.25-0.32	0.73-0.93	ND	ND	ND
cis-1,2-Dichloroethene	0.2-0.26	0.73-0.93	ND	ND	ND
trans-1,2-Dichloroethene	0.37-0.47	0.73-0.93	ND	ND	ND
1,2-Dichloropropane	0.32-0.41	0.73-0.93	ND	ND	ND
1,3-Dichloropropane	0.18-0.24	0.73-0.93	ND	ND	ND
2,2-Dichloropropane	0.24-0.31	3.6-4.7	ND	ND	ND
1,1-Dichloropropene	0.24-0.31	1.5-1.9	ND	ND	ND
cis-1,3-Dichloropropene	0.18-0.24	0.73-0.93	ND	ND	ND
trans-1,3-Dichloropropene	0.44-0.57	1.5-1.9	ND	ND	ND
Ethylbenzene	0.11-0.14	0.73-0.93	ND	ND	ND
2-Hexanone	1.3-1.6	15-19	ND	ND	ND
Isopropylbenzene	0.4-0.51	0.73-0.93	ND	ND	ND
p-Isopropyltoluene	0.46-0.59	0.73-0.93	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.21-0.28	1.5-1.9	ND	ND	ND
Methylene chloride (DCM)	0.97-1.2	7.3-9.3	ND	ND	ND
Naphthalene	0.59-0.76	7.3-9.3	ND	ND	ND
n-Propylbenzene	0.36-0.47	1.5-1.9	ND	ND	ND
Styrene	0.44-0.56	0.73-0.93	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.17-0.22	0.73-0.93	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.25-0.32	1.5-1.9	ND	ND	ND
Tetrachloroethene	0.15-0.2	0.73-0.93	ND	ND	ND
Toluene (Methyl benzene)	0.37-0.48	0.73-0.93	ND	ND	ND
1,2,3-Trichlorobenzene	0.66-0.85	1.5-1.9	ND	ND	ND
1,2,4-Trichlorobenzene	0.23-0.29	1.5-1.9	ND	ND	ND
1,1,1-Trichloroethane	0.16-0.21	0.73-0.93	ND	ND	ND
1,1,2-Trichloroethane	0.26-0.33	0.73-0.93	ND	ND	ND
Trichloroethene	0.22-0.28	1.5-1.9	ND	ND	ND
Trichlorofluoromethane	0.27-0.35	7.3-9.3	ND	ND	ND
1,2,3-Trichloropropane	0.6-0.77	1.5-1.9	ND	ND	ND
1,2,4-Trimethylbenzene	0.43-0.55	1.5-1.9	ND	ND	ND
1,3,5-Trimethylbenzene	0.4-0.51	1.5-1.9	ND	ND	ND
Vinyl Acetate	3.4-4.4	7.3-9.3	ND	ND	ND
Vinyl chloride (Chloroethene)	0.37-0.47	0.73-0.93	ND	ND	ND
o-Xylene	0.19-0.25	1.5-1.9	ND	ND	ND
m,p-Xylenes	0.4-0.52	0.73-0.93	ND	ND	ND
Dilution Factor:		1	1	1	

NOTES:

VOC = Volatile Organic Compound

RL = Reporting Limit

MDL = Method Detection Limit

ND = Indicated constituents not detected above the MDL

µg/kg = micrograms per kilogram

J = Analyte detected; However result is an estimated value between the MDL and the RL

TABLE 5
Groundwater Elevations
12922 Panama Street
Los Angeles, California

Measurement Date	Top of Casing Elevation (ft. AMSL)	Depth to Groundwater Below top of Casing (ft.)	Groundwater Elevation (ft. AMSL)
GW1			
06/18/13	12.33	12.27	0.06
07/26/13	12.33	12.28	0.05
10/13/14	12.33	12.56	-0.23
02/02/15	12.33	12.20	0.13
GW2			
06/18/13	11.86	9.72	2.14
07/26/13	11.86	9.71	2.15
10/13/14	11.86	10.09	1.77
02/02/15	11.86	9.85	2.01
GW3			
06/18/13	11.53	10.71	0.82
07/26/13	11.53	10.78	0.75
10/13/14	11.53	11.05	0.48
02/02/15	11.53	10.71	0.82
MW7			
02/02/15	11.67	11.12	0.55
MW8			
02/02/15	12.24	11.08	1.16

NOTES:

ft. = feet

AMSL = Above Mean Sea Level

Wells surveyed by DMC Engineering on June 14, 2013 and February 2, 2015

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B1A	B3A	B7A	B24A	B25A
	Date:			4/26/2013	4/25/2013	4/26/2013	4/25/2013	4/26/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	ND	1.05	ND	ND
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	ND	203	ND	1.52
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	2.51	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	ND	ND	4.52	ND	0.425J
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	ND	ND	47	ND	81
trans-1,2-Dichloroethene	0.37	1.00	10	ND	ND	0.950J	ND	1.22
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	ND	ND	24.8	ND	2.61
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	ND	0.360J	121	0.980J	29.4
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	—	—	—	—	—

NOTES:

VOC = Volatile Organic Compound

MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical samples

RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples

MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014

ND = Indicated constituents not detected at or above the MDL

J = Analyte detected; however, result is an estimated value between the MDL and PQL.

TB = Trip blank sample

EB = Equipment blank sample

µg/L = micrograms per liter

— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B26A	B28A	B36A	B37A	B38A
	Date:			4/26/2013	4/25/2013	4/30/2013	6/6/2013	6/7/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		0.220J	ND	ND	0.260J	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		0.730J	ND	ND	0.840J	1.29
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.37	1.00	10	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	36.8	ND	ND	1.13	120
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	1.31	0.570J	ND	0.550J	1.62
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	—	—	—	—	—

NOTES:

VOC = Volatile Organic Compound
MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical
RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples
MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014
ND = Indicated constituents not detected at or above the MDL
J = Analyte detected; however, result is an estimated value between the MDL and PQL.
TB = Trip blank sample
EB = Equipment blank sample
µg/L = micrograms per liter
— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B39A	B40A	B41A	B42A	B43A
	Date:			6/7/2013	6/7/2013	6/7/2013	6/6/2013	6/6/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	0.200J	ND	ND	0.190J
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		0.580J	0.610J	0.700J	ND	0.580J
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	9.64	0.570J	0.630J	4.91
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	1.54	1.78	ND	2.38	2.43
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	3.52	1.12	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	2.12	140	40.6	19.1	131
trans-1,2-Dichloroethene	0.37	1.00	10	ND	5.72	0.740J	0.540J	1.96
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	9.18	4.39	5.38	15.5	2.39
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	7.29	50.5	9.42	75.9	26.3
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	1.10J
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	—	—	—	—	—

NOTES:

VOC = Volatile Organic Compound
MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical
RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples
MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014
ND = Indicated constituents not detected at or above the MDL
J = Analyte detected; however, result is an estimated value between the MDL and PQL.
TB = Trip blank sample
EB = Equipment blank sample
µg/L = micrograms per liter
— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B48A	B55A	B57A	B59A	B60A
	Date:			6/28/2013	6/6/2013	6/7/2013	6/7/2013	6/7/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	ND	0.860J	1.04	0.610J
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	1.2	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	3.37	3.75	ND	5.59	0.400J
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	0.360J	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	22.9	72.9	1.84	ND	0.710J
trans-1,2-Dichloroethene	0.37	1.00	10	1.27	1.44	ND	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	67.5	1.14	1.49	26.6	13.8
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	22.6	23.4	4.54	1.05	0.750J
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	—	—	—	—	—

NOTES:

VOC = Volatile Organic Compound
MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical
RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples
MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014
ND = Indicated constituents not detected at or above the MDL
J = Analyte detected; however, result is an estimated value between the MDL and PQL.
TB = Trip blank sample
EB = Equipment blank sample
µg/L = micrograms per liter
— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			B65A	B70A	GW1	GW2	GW3
	Date:			6/28/2013	6/28/2013	6/18/2013	6/18/2013	6/18/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	0.920J	ND	0.945J	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	0.465J	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	1.64	0.670J	0.875J	0.640J
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	ND	ND	13.5	ND	ND
trans-1,2-Dichloroethene	0.37	1.00	10	ND	ND	0.290J	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	0.480J	6.63	30.8	ND	125
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	3.15	0.810J	6.92	0.570J	2.18
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	—	—	—	—	—

NOTES:

VOC = Volatile Organic Compound

MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical

RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples

MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014

ND = Indicated constituents not detected at or above the MDL

J = Analyte detected; however, result is an estimated value between the MDL and PQL.

TB = Trip blank sample

EB = Equipment blank sample

µg/L = micrograms per liter

— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID: GW1			GW2	GW3
	Date: 7/26/2013			7/26/2013	7/26/2013
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)	
Acetone	10	20.00		ND	ND
Benzene	0.14	0.50	1.0	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	0.26J
Bromoform (Tribromomethane)	0.5	1.00		ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND
n-Butylbenzene	0.23	1.00		ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND
Carbon disulfide	0.41	10.00		ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND
Chlorobenzene	0.17	1.00		ND	ND
Chloroethane	2.3	5.00		ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		—	—
Chloroform (Trichloromethane)	0.46	1.00		ND	0.66J
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND
Dibromochloromethane	0.250	1.00		ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND
Dibromomethane	0.46	1.00		ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	2.1	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	0.56J	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	0.72J	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	44	ND
trans-1,2-Dichloroethene	0.37	1.00	10	1.6	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00	—	—	—
2-Hexanone	2.1	10.00		ND	ND
Isopropylbenzene	0.58	1.00		ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND
MTBE	0.310	1.00	13	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND
Naphthalene	2.5	10.00		ND	ND
n-Propylbenzene	0.17	1.00		ND	ND
Styrene	0.17	1.00	100	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	20	40
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	20	0.79J
Trichlorofluoromethane	1.7	10.00	150	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND
Vinyl acetate	2.8	10.00		ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	160	ND

NOTES:

VOC = Volatile Organic Compound

MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical

RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples

MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014

ND = Indicated constituents not detected at or above the MDL

J = Analyte detected; however, result is an estimated value between the MDL and PQL.

TB = Trip blank sample

EB = Equipment blank sample

µg/L = micrograms per liter

— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			GW1	GW2	GW3	GW3-Dup	GW1
	Date:			10/13/2014	10/13/2014	10/13/2014	10/13/2014	2/2/2015
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)				
Acetone	10	20.00		ND	ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	4.9	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		—	—	—	—	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	ND	ND
1,2-Dibromomethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	0.52J	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	0.31	ND	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	26	ND	ND	ND	23
trans-1,2-Dichloroethene	0.37	1.00	10	0.51J	ND	ND	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		—	—	—	—	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	14	ND	27	25	21
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	8.2	0.62J	1.1	1.1	8.4
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	57	ND	ND	ND	120

NOTES:

VOC = Volatile Organic Compound
MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical
RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples
MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014
ND = Indicated constituents not detected at or above the MDL
J = Analyte detected; however, result is an estimated value between the MDL and PQL.
TB = Trip blank sample
EB = Equipment blank sample
µg/L = micrograms per liter
— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID: _____			GW2	GW3	GW3-Dup	MW7
	Date: _____			2/2/2015	2/2/2015	2/2/2015	2/2/2015
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)	VOC Concentration (µg/L)			
Acetone	10	20.00		ND	ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND	0.22J
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	ND	ND
n-Butylbenzene	0.23	1.00		ND	ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	ND	ND	0.61J
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND	0.32J
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	ND	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.37	1.00	10	ND	ND	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	ND	140	140	4.5
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	0.66J	3.6	3.4	0.69J
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	ND	ND	ND	ND

NOTES:

VOC = Volatile Organic Compound

MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical

RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples

MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014

ND = Indicated constituents not detected at or above the MDL

J = Analyte detected; however, result is an estimated value between the MDL and PQL.

TB = Trip blank sample

EB = Equipment blank sample

µg/L = micrograms per liter

— = Compound not analyzed

TABLE 6
Water Sample Results for VOCs
12922 Panama Street
Los Angeles, California

VOCs by EPA Method 8260B in Water	Sample ID:			MW8	TB	EB
	Date:			2/2/2015	2/2/2015	2/2/2015
	MDL (µg/L):	RL (µg/L):	MCL (µg/L)			
Acetone	10	20.00		ND	ND	ND
Benzene	0.14	0.50	1.0	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.3	1.00		ND	ND	ND
Bromochloromethane (Chlorobromomethane)	0.48	1.00		ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	0.21	1.00		ND	ND	ND
Bromoform (Tribromomethane)	0.5	1.00		ND	ND	ND
Bromomethane (Methyl bromide)	3.9	10.00		ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	2.2	10.00		ND	ND	13
n-Butylbenzene	0.23	1.00		ND	ND	ND
sec-Butylbenzene	0.25	1.00		ND	ND	ND
tert-Butylbenzene	0.28	1.00		ND	ND	ND
Carbon disulfide	0.41	10.00		ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	0.23	0.50	0.5	ND	ND	ND
Chlorobenzene	0.17	1.00		ND	ND	ND
Chloroethane	2.3	5.00		ND	ND	ND
2-Chloroethyl vinyl ether	0.665	5.00		ND	ND	ND
Chloroform (Trichloromethane)	0.46	1.00		ND	ND	ND
Chloromethane (Methyl chloride)	1.8	10.00		ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	0.130	1.00		ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	0.240	1.00		ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	1.200	5.00		ND	ND	ND
Dibromochloromethane	0.250	1.00		ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	0.36	1.00		ND	ND	ND
Dibromomethane	0.46	1.00		ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	0.46	1.00	600	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	0.4	1.00		ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.43	1.00	5.0	ND	ND	ND
Dichlorodifluoromethane	0.46	1.00		ND	ND	ND
1,1-Dichloroethane	0.28	1.00	5.0	ND	ND	ND
1,2-Dichloroethane	0.24	0.50	0.5	ND	ND	ND
1,1,1-Dichloroethene (1,1-Dichloroethylene)	0.43	1.00	6.0	ND	ND	ND
cis-1,2-Dichloroethene	0.48	1.00	6.0	ND	ND	ND
trans-1,2-Dichloroethene	0.37	1.00	10	ND	ND	ND
1,2-Dichloropropane	0.42	1.00	5.0	ND	ND	ND
1,3-Dichloropropane	0.3	1.00		ND	ND	ND
2,2-Dichloropropane	0.36	1.00		ND	ND	ND
1,1-Dichloropropene	0.46	1.00		ND	ND	ND
cis-1,3-Dichloropropene	0.25	0.50		ND	ND	ND
trans-1,3-Dichloropropene	0.25	0.50		ND	ND	ND
Ethylbenzene	0.14	1.00	300	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	0.413	3.00		ND	ND	ND
2-Hexanone	2.1	10.00		ND	ND	ND
Isopropylbenzene	0.58	1.00		ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	0.16	1.00		ND	ND	ND
MTBE	0.310	1.00	13	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	4.400	10.00		ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	0.640	10.00		ND	ND	ND
Naphthalene	2.5	10.00		ND	ND	ND
n-Propylbenzene	0.17	1.00		ND	ND	ND
Styrene	0.17	1.00	100	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.4	1.00		ND	ND	ND
1,1,2,2-Tetrachloroethane	0.41	1.00	1.0	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	0.39	1.00	5.0	ND	ND	ND
Toluene (Methyl benzene)	0.24	1.00	150	ND	ND	ND
1,2,3-Trichlorobenzene	0.51	1.00		ND	ND	ND
1,2,4-Trichlorobenzene	0.5	1.00	5.0	ND	ND	ND
1,1,1-Trichloroethane	0.3	1.00	200	ND	ND	ND
1,1,2-Trichloroethane	0.38	1.00	5.0	ND	ND	ND
Trichloroethene (TCE)	0.37	1.00	5.0	1.2	ND	ND
Trichlorofluoromethane	1.7	10.00	150	ND	ND	ND
1,2,3-Trichloropropane	0.64	5.00		ND	ND	ND
1,2,4-Trimethylbenzene	0.36	1.00		ND	ND	ND
1,3,5-Trimethylbenzene	0.28	1.00		ND	ND	ND
Vinyl acetate	2.8	10.00		ND	ND	ND
Vinyl chloride (Chloroethene)	0.3	0.50	0.5	ND	ND	ND
o-Xylene	0.230	1.00	1,750	ND	ND	ND
m- & p-Xylenes	0.240	1.00	1,750	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.78	10.00	1,200	ND	ND	ND

NOTES:

VOC = Volatile Organic Compound
MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical
RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples
MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014
ND = Indicated constituents not detected at or above the MDL
J = Analyte detected; however, result is an estimated value between the MDL and PQL
TB = Trip blank sample
EB = Equipment blank sample
µg/L = micrograms per liter
— = Compound not analyzed

TABLE 7
Groundwater Sample Results for 1,4-dioxane
12922 Panama Street
Los Angeles, California

Sample ID	Sample Date	EPA Method 8270C(M)
		1,4-Dioxane (ug/L)
RL:		1.0
MDL:		0.280
ESL:		2.5
B48A	6/28/2013	54
B65A	6/28/2013	ND
B70A	6/28/2013	ND
GW1	6/18/2013	ND
GW2	6/18/2013	ND
GW3	6/18/2013	ND
GW1	7/26/2013	1.9
GW2	7/26/2013	ND
GW3	7/26/2013	ND
GW1	10/13/2014	1.3
GW2	10/13/2014	ND
GW3	10/13/2014	ND
GW3-Dup	10/13/2014	ND
GW1	2/2/2015	ND
GW2	2/2/2015	ND
GW3	2/2/2015	ND
GW3-Dup	2/2/2015	ND
MW7	2/2/2015	ND
MW8	2/2/2015	ND

NOTES:

ND = Indicates constituents not detected above the MDL

RL = Reporting Limit

MDL = Method Detection Limit

ug/L = micrograms per liter

ESLs = Environmental Screening Levels, based on the CRWQCB-San Francisco Bay Region's Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater, using Summary Table A (May 2013) - ESLs in Summary Table A (May 2013) - ESLs in Shallow Soils, Groundwater is Current or Potential Source of Drinking Water

TABLE 8
Water Sample Results for Title 22 Metals
12922 Panama Street
Los Angeles, California

Sample ID	Title 22 Metals by EPA Method 6010B/7470A (mg/L) in Water																	
	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
RL (mg/L):		0.01-0.015	0.0100	0.0100	0.0100	0.005-0.01	0.0100	0.0100	0.0100	0.0100	0.0100	0.0100	0.01-0.015	0.0050	0.0150	0.0100	0.0100	0.0005
MDL (mg/L):		0.0079	0.0044	0.00296	0.00056	0.0027	0.00271	0.00295	0.00267	0.0041	0.0028	0.00298	0.0070	0.0014	0.0029	0.0024	0.0035	0.000045
MCLs (mg/L):		0.006	0.010	1.0	0.004	0.005	0.050	NA	1.3	0.015	NA	0.1	0.05	NA	0.002	NA	NA	0.002
B1A	4/26/2013	0.154	ND	0.132	ND	ND	ND	0.0018J	ND	ND	0.0215	0.0124	ND	ND	ND	0.0048J	0.0108	ND
B3A	4/25/2013	ND	0.0032J	0.0446	ND	ND	ND	0.0057J	ND	ND	0.0559	0.0161	0.0177	ND	ND	ND	ND	ND
B7A	4/26/2013	ND	0.0070J	0.0703	ND	ND	0.0022J	0.0025J	0.0025J	ND	0.0374	0.0140	ND	ND	ND	0.0121	ND	ND
B24A	4/25/2013	ND	ND	0.0751	ND	0.0011J	ND	0.0094J	ND	ND	0.0580	0.0168	0.0267	ND	ND	ND	ND	ND
B25A	4/26/2013	ND	ND	0.0375	ND	ND	ND	0.0039J	ND	ND	0.0512	0.0153	ND	ND	ND	ND	ND	ND
B26A	4/26/2013	0.0081J	ND	0.0881	ND	ND	ND	0.0066J	ND	ND	0.0504	0.0119	ND	ND	ND	ND	ND	ND
B28A	4/25/2013	ND	ND	0.0297	ND	0.0009J	ND	ND	ND	ND	0.0210	0.0106	0.0113	ND	ND	ND	ND	ND
B36A	4/30/2013	ND	ND	0.079	ND	ND	ND	ND	ND	ND	0.0205	0.0044J	ND	ND	ND	0.0052J	ND	ND
B37A	6/6/2013	ND	0.0177	0.331	0.0037J	0.0301	0.111	0.371	0.0855	ND	0.0111	0.307	0.0164	ND	ND	0.0785	0.244	ND
B38A	6/7/2013	ND	0.0159	0.594	ND	0.0139	0.0381	0.444	0.0889	ND	0.0035J	0.173	ND	ND	ND	0.1	0.118	ND
B39A	6/7/2013	ND	0.0272	0.322	ND	0.0202	0.0589	0.241	0.0926	ND	0.0015J	0.179	ND	ND	ND	0.211	0.176	ND
B40A	6/7/2013	ND	0.0051J	0.227	ND	0.026	0.167	0.355	0.118	ND	0.0171	0.34	0.0144	ND	ND	0.111	0.21	0.0007
B41A	6/7/2013	ND	0.0248	0.21	ND	0.0187	0.0243	0.188	0.0402	ND	ND	0.172	0.0104	ND	ND	0.102	0.103	0.0015
B42A	6/6/2013	ND	0.0148	0.497	0.0041J	0.0317	0.0926	0.224	0.0579	ND	0.0036J	0.23	0.169	ND	ND	0.142	0.157	ND
B43A	6/6/2013	ND	0.0185	0.471	ND	0.02	0.085	0.0896	0.106	ND	0.0012J	0.195	0.0077J	ND	ND	0.368	0.208	ND
B48A	6/28/2013	ND	ND	0.0147	ND	0.0023J	ND	0.0048J	ND	ND	0.0182	0.0201	0.0214	ND	ND	0.0060J	ND	ND
B55A	6/6/2013	ND	0.0162	0.42	0.0028J	0.0166	0.104	0.231	0.0855	ND	0.0054J	0.242	0.0077J	ND	ND	0.116	0.196	ND
B57A	6/7/2013	ND	0.0416	0.38	ND	0.0331	0.0025J	0.125	0.0462	ND	ND	0.161	0.0169	ND	ND	0.0648	0.137	ND
B59A	6/7/2013	ND	0.0293	0.95	ND	0.0331	0.0036J	0.0688	0.0603	ND	ND	0.178	0.0068J	ND	ND	0.0974	0.148	ND
B60A	6/7/2013	ND	0.0458	2.16	ND	0.0355	0.0034J	0.127	0.0125	ND	ND	0.187	0.0146	ND	ND	0.0086J	0.122	ND
B65A	6/28/2013	ND	ND	0.0574	ND	ND	ND	ND	ND	ND	0.0158	0.0115	ND	ND	ND	0.0078J	ND	ND
B70A	6/28/2013	ND	ND	0.0178	ND	ND	ND	ND	ND	ND	0.0143	0.0099J	ND	ND	ND	0.0043J	ND	ND
GW1	6/18/2013	ND	ND	0.052	ND	ND	ND	ND	ND	ND	0.0426	0.018	ND	ND	ND	ND	0.0137	ND
GW2	6/18/2013	ND	ND	0.0249	ND	ND	ND	ND	ND	ND	0.0179	0.0141	ND	ND	ND	ND	ND	ND
GW3	6/18/2013	ND	ND	0.0331	ND	ND	ND	ND	ND	ND	0.0180	ND	ND	ND	ND	ND	ND	ND
GW1	7/26/2013	ND	ND	0.0866	ND	ND	0.0099J	0.00353J	0.00798J	ND	0.0430	0.00930J	ND	ND	ND	0.0188	0.0481	ND
GW2	7/26/2013	ND	ND	0.0451	ND	ND	0.00545J	ND	0.00280J	ND	0.0158	ND	ND	ND	ND	0.0103	0.0830	ND
GW3	7/26/2013	ND	ND	0.0633	ND	ND	0.00293J	ND	0.00636J	ND	0.0202	ND	0.00816J	ND	ND	0.00684J	0.0146	ND
GW1	10/13/2014	ND	0.00479J	0.0334	ND	ND	ND	ND	ND	ND	0.0393	ND	ND	0.00184J	ND	0.00438J	0.0842	ND
GW2	10/13/2014	ND	ND	0.0248	ND	ND	ND	ND	ND	ND	0.0153	ND	ND	0.00189J	0.00396J	0.00515J	0.0330	ND
GW3	10/13/2014	ND	ND	0.0723	ND	ND	ND	ND	ND	ND	0.0195	ND	ND	0.00179J	ND	0.00472J	0.0131	ND
GW3-Dup	10/13/2014	ND	ND	0.0752	ND	ND	ND	ND	ND	ND	0.0198	ND	ND	0.00201J	0.00323J	0.00433J	0.00698J	ND
GW1	2/2/2015	ND	ND	0.0317	ND	ND	ND	ND	ND	ND	0.0413	ND	0.0151	ND	0.00488J	0.00459J	0.017	ND
GW2	2/2/2015	ND	ND	0.0194	ND	ND	ND	ND	ND	ND	0.0151	ND	0.0109J	ND	0.00325J	0.00363J	0.0937	ND
GW3	2/2/2015	ND	ND	0.0507	ND	ND	ND	ND	ND	ND	0.0225	ND	0.0116J	ND	0.00486J	0.004J	0.01	ND
GW3-Dup	2/2/2015	ND	ND	0.0484	ND	ND	ND	ND	ND	ND	0.0205	ND	0.0132J	ND	ND	0.00395J	0.013	ND
MW7	2/2/2015	ND	ND	0.0391	ND	ND	ND	ND	ND	ND	0.0162	ND	0.0152	ND	0.00502J	0.00427J	0.0304	ND
MW8	2/2/2015	ND	ND	0.0263	ND	ND	ND	ND	ND	ND	0.0239	ND	0.0162	ND	0.00433J	0.00468J	0.00486J	ND

NOTES:

mg/L = milligrams per liter

ND = Indicates constituent not detected at or above the PQL

J = Analyte detected; however result is an estimated value between the Method Detection Limit (MDL) and the PQL. (See associated lab report for applicable MDLs)

MDL = Method Detection Limit for samples collected during current sampling event, see prior laboratory reports for MDLs of historical samples

RL = Reporting Limit for samples collected during current sampling event, see prior laboratory reports for RLs of historical samples

MCLs = California Department of Public Health Maximum Contaminant Levels, Updated July 2014

N/A = Not applicable

TABLE 9
Water Sample Results for Monitored Natural Attenuation Parameters
12922 Panama Street
Los Angeles, California

Sample ID	Sample Date	EPA Method RSK-175M (ug/L)				EPA Method 300.0 (mg/L)			EPA Method 200.7 (mg/L)	EPA Method 3005A (mg/L)		General Chemistry (mg/L)					
		Ethane	Ethene	Methane	Carbon Dioxide	Chloride	Nitrate	Sulfate	Boron	Dissolved Iron	Manganese	Total Dissolved Solids (SM 2540C)	Total Sulfide (SM4500-S2-D)	Total Organic Carbon (SM 5310D)	Total Alkalinity (as CaCO3) (SM 2320B)	Bicarbonate (as CaCO3) (SM 2320B)	Carbonate (as CaCO3) (SM 2320B)
RL:		1.0	1.0	1.0	17.0	1.0-5.0	0.5	5.0	0.020	0.1000	0.0050	1.0	0.05	2.5	5.0	5.0	1.0
MDL:		0.08	0.10	0.04	0.0547	0.12-0.61	0.130	0.94	0.00476	0.0101	0.0027	0.82	0.030	0.13	0.848	0.848	0.85
GW1	10/13/2014	ND	0.234J	0.812J	30,800	94	3.5	350	0.582	0.0165J	0.452	1,120	ND	42	414	414	ND
GW2	10/13/2014	ND	ND	0.184J	34,200	92	2.6	380	0.524	0.0131J	0.0489	1,160	ND	40	426	426	ND
GW3	10/13/2014	ND	0.109J	0.141J	36,500	89	7.2	290	0.534	0.0128J	ND	1,010	ND	38	417	417	ND
GW3-Dup	10/13/2014	ND	0.158J	0.124J	37,000	89	7.2	290	0.545	0.0190J	ND	995	ND	38	418	418	ND
GW1	2/2/2015	ND	ND	0.321J	37,900	93	3.3	330	0.482	ND	0.452	985	ND	43	407	407	ND
GW2	2/2/2015	ND	ND	0.0470J	34,300	88	2.7	350	0.443	ND	0.0482	995	ND	42	413	413	ND
GW3	2/2/2015	ND	ND	ND	22,100	40	8.9	180	0.427	ND	ND	605	ND	30	285	285	ND
GW3-Dup	2/2/2015	ND	ND	ND	23,600	40	8.9	190	0.419	ND	ND	645	ND	30	301	301	ND
MW7	2/2/2015	ND	ND	0.0470J	30,500	93	9.4	280	0.652	ND	0.0551	980	ND	44	427	427	ND
MW8	2/2/2015	ND	ND	0.161J	34,700	95	8.0	270	0.575	ND	0.237	925	ND	46	432	432	ND

NOTES:

RL = Reporting Limit for undiluted samples

MDL = Method Detection Limit for undiluted samples

ND = Indicated constituents not detected above the MDL

µg/L = micrograms per liter

mg/L = milligrams per liter

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

FIGURES

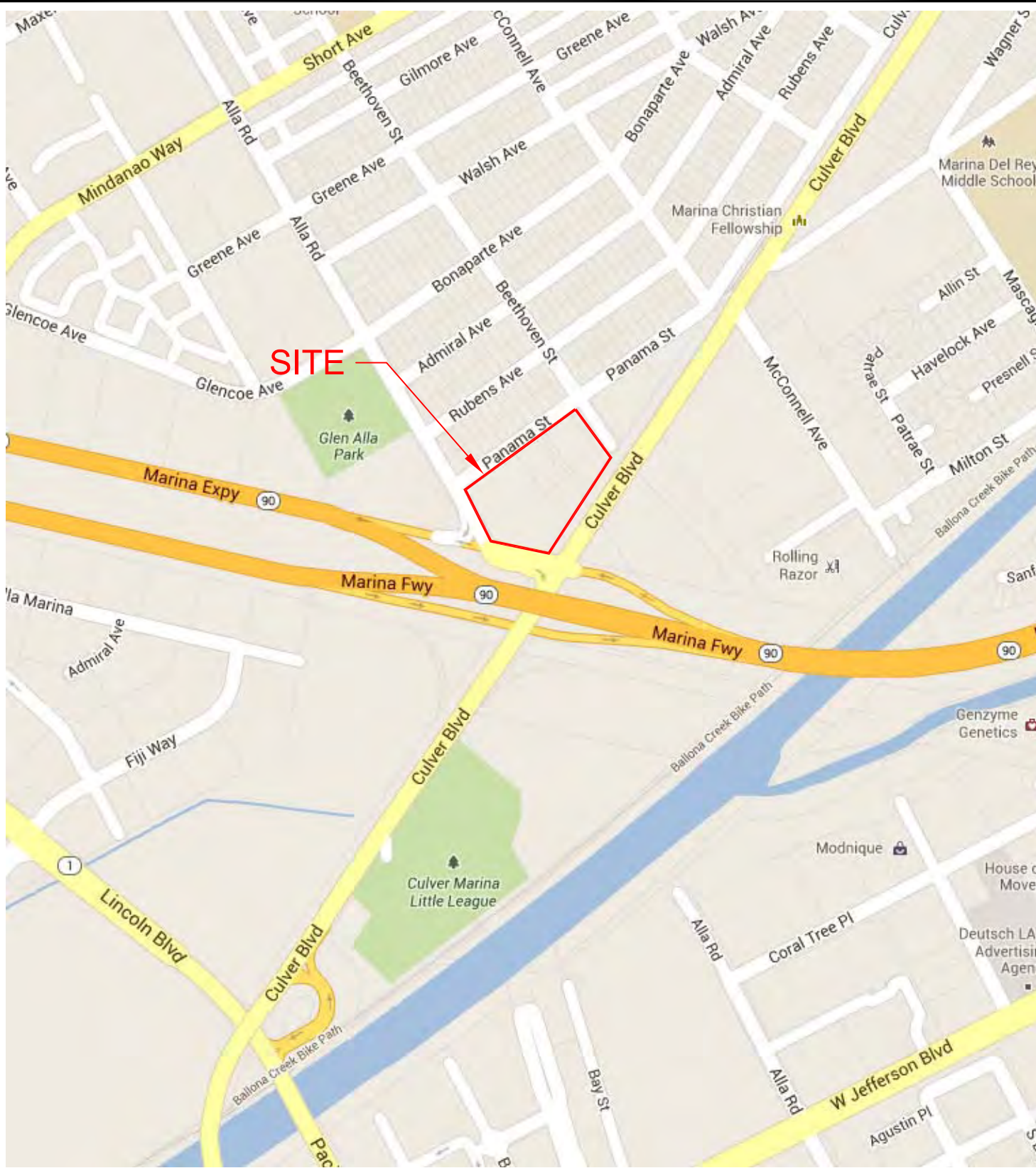


FIGURE 1: Site Vicinity Map

CLIENT:
McGuire Woods, LLP

PROJECT #: MCGU-14-4695

SITE LOCATION: Panama Street Site
12922 Panama Street
Los Angeles, California 90066



ALTA
ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: KD

SCALE:
None

APPROVED: JB

DATE: 7/8/13



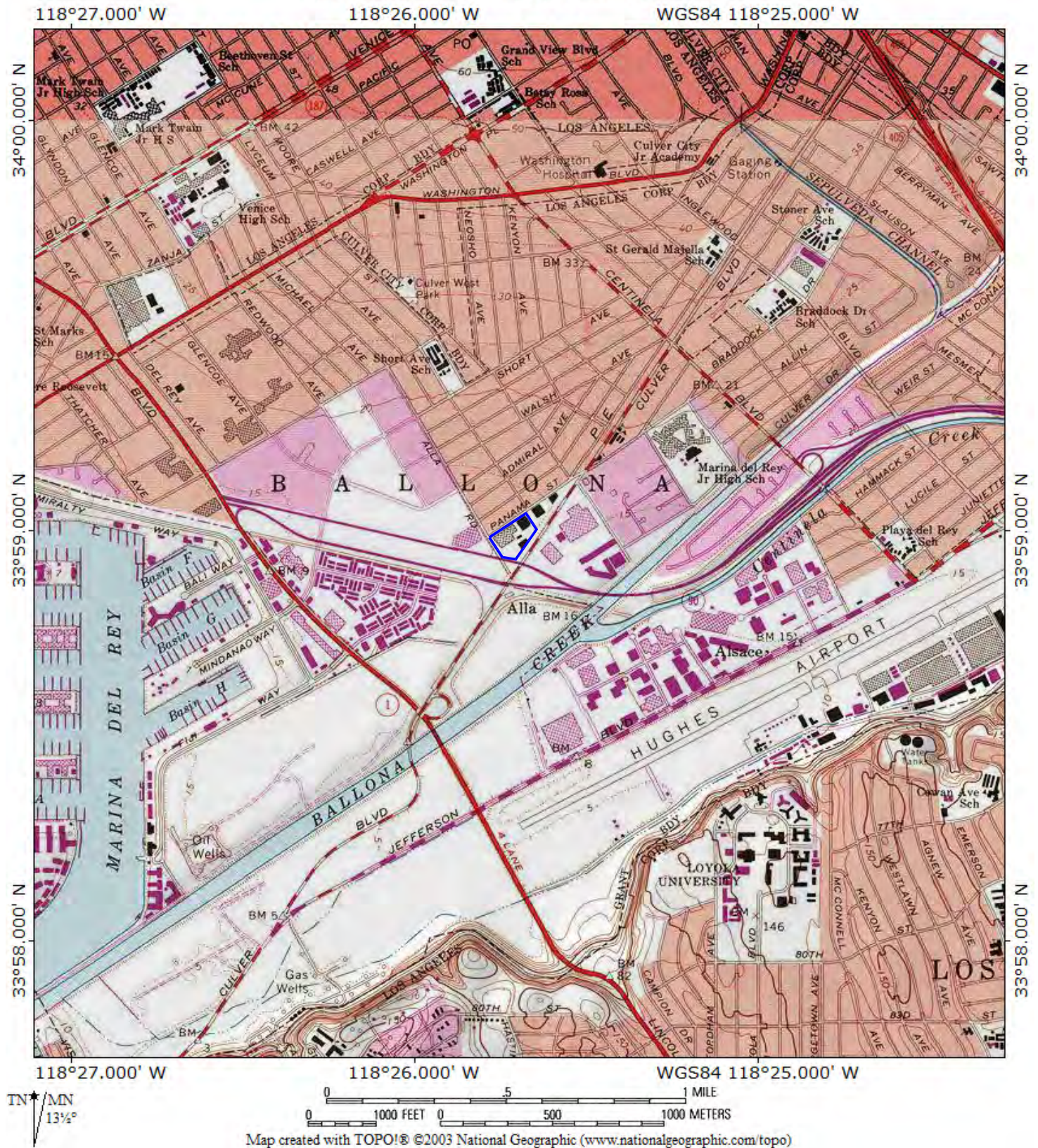


FIGURE 2: Site USGS Topographic Map

CLIENT:
McGuire Woods, LLP

PROJECT #: MCGU-13-2252

SITE LOCATION: Panama Street Site
12922 Panama Street
Los Angeles, California 90066



ALTA
ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaviron.com

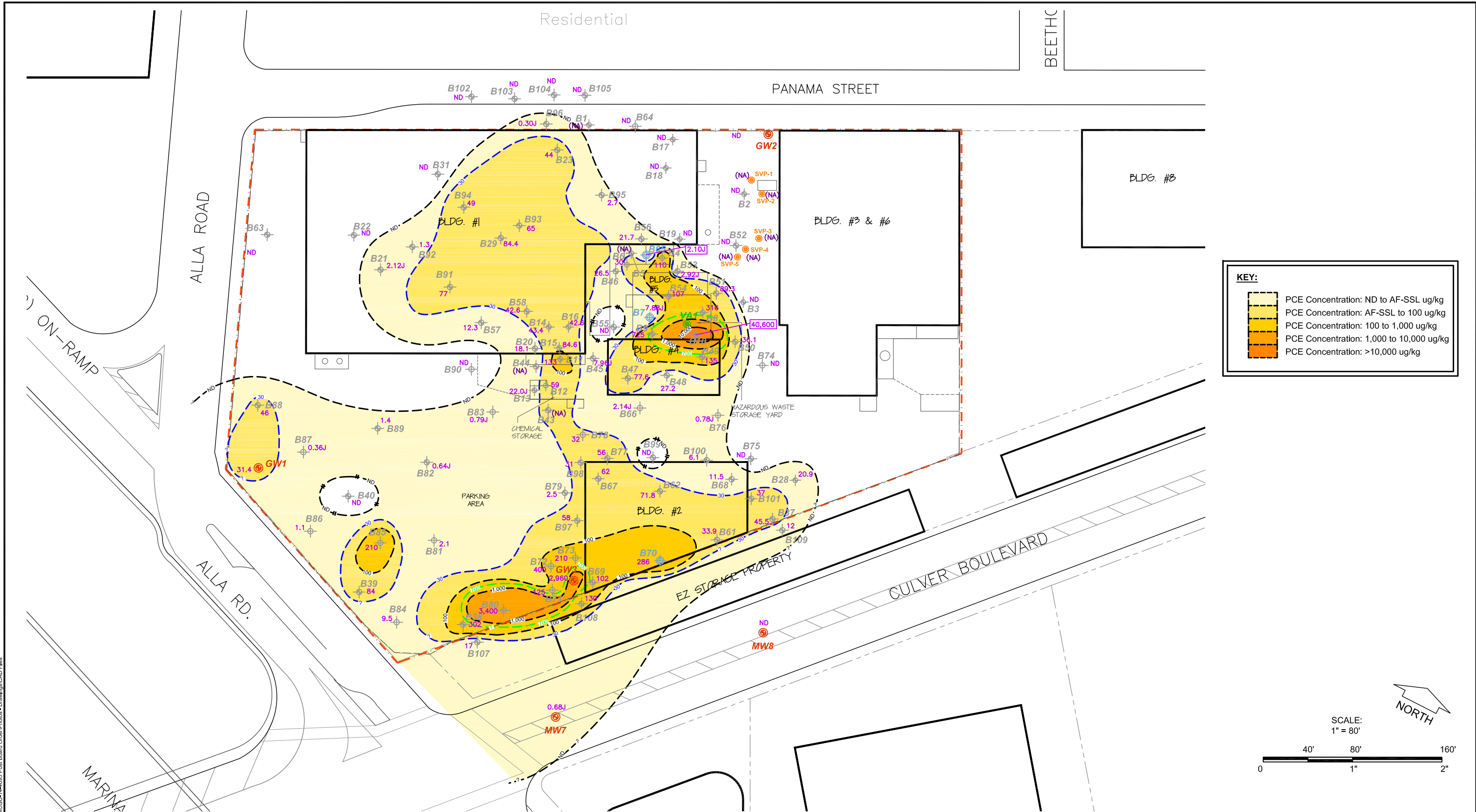
DRAWN: KD

SCALE:
As Noted

APPROVED: JB

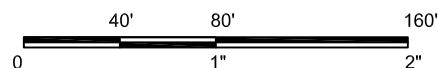
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**KEY:**

PCE Concentration: ND to AF-SSL ug/kg
 PCE Concentration: AF-SSL to 100 ug/kg
 PCE Concentration: 100 to 1,000 ug/kg
 PCE Concentration: 1,000 to 10,000 ug/kg
 PCE Concentration: >10,000 ug/kg

SCALE:
1" = 80'



This figure was created in color. Significant information may be lost if copied in black and white.

LEGEND:


- Building Outline
- - - Approximate Outline of Site
- - - Center Line
- 12964 Address Number on Panama Street
- (E) Approximate Location of Utility Shut-off (Electrical)
- (G) Approximate Location of Utility Shut-off (Gas)
- ▼ Approximate Location of Access Point
- Vertical Assessment Boring Location
- ⊕ Groundwater Monitoring Well Location
- ⊙ Soil Boring Location
- ⊙ Soil/Soil Vapor Boring Location
- ⊕ Hydropunch/Soil Boring Location
- ⊕ Approximate Soil/Soil Vapor Boring Location - Installed by Geosyntec Consultants (May, 2014)

- 40,600 PCE Soil Matrix Concentration (ug/kg) at 2.5 feet bgs
- 10,000 — Estimated PCE Isoconcentration Contour in Soil Matrix at 2.5 feet bgs
- ND — Estimated Extent of PCE Concentration at 2.5 feet bgs
- 30 — PCE Isoconcentration Contour at AF-SSL of 30 ug/kg
- 700 — PCE Isoconcentration Contour at ESL (Industrial) of 700 ug/kg
- bgs below ground surface
- ug/kg micrograms per kilogram
- AF-SSL Attenuation Factor, Soil Screening Level (Los Angeles Regional Water Quality Control Board - 1996 Guidance Document)

- ESL Environmental Screening Level (San Francisco Bay Regional Water Quality Control Board)
- PCE Tetrachloroethylene
- ND PCE not detected above the laboratory reporting limits
- (NA) Soil Sample Not Analyzed at 2.5 feet bgs
- J Analyte detected; however concentration is an estimated value between the method detection limit (MDL) and practical quantitation limit (PQL)

NOTE:
All VOC results by EPA Method 8260B.

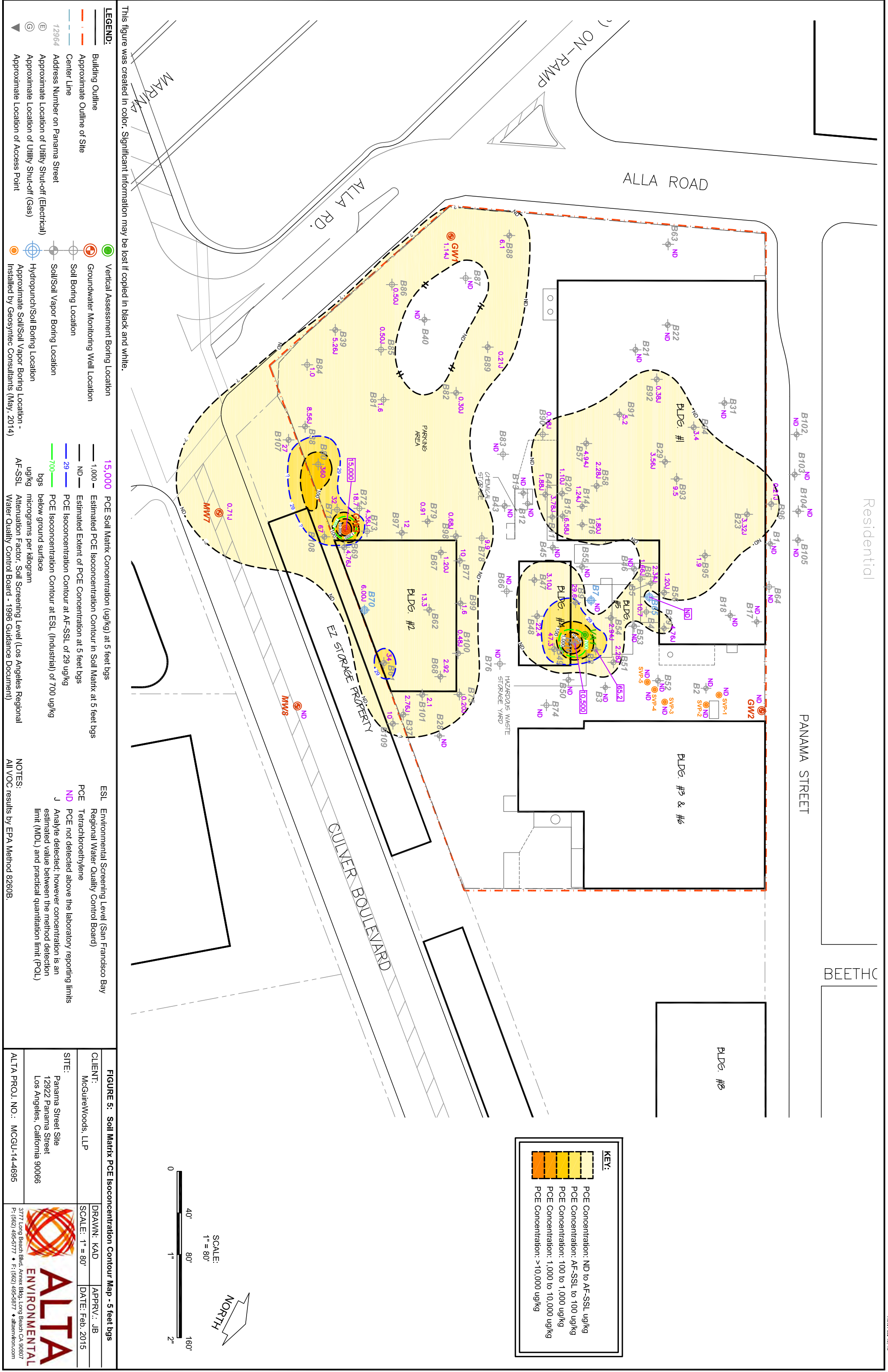
FIGURE 4: Soil Matrix PCE Isoconcentration Contour Map - 2.5 feet bgs

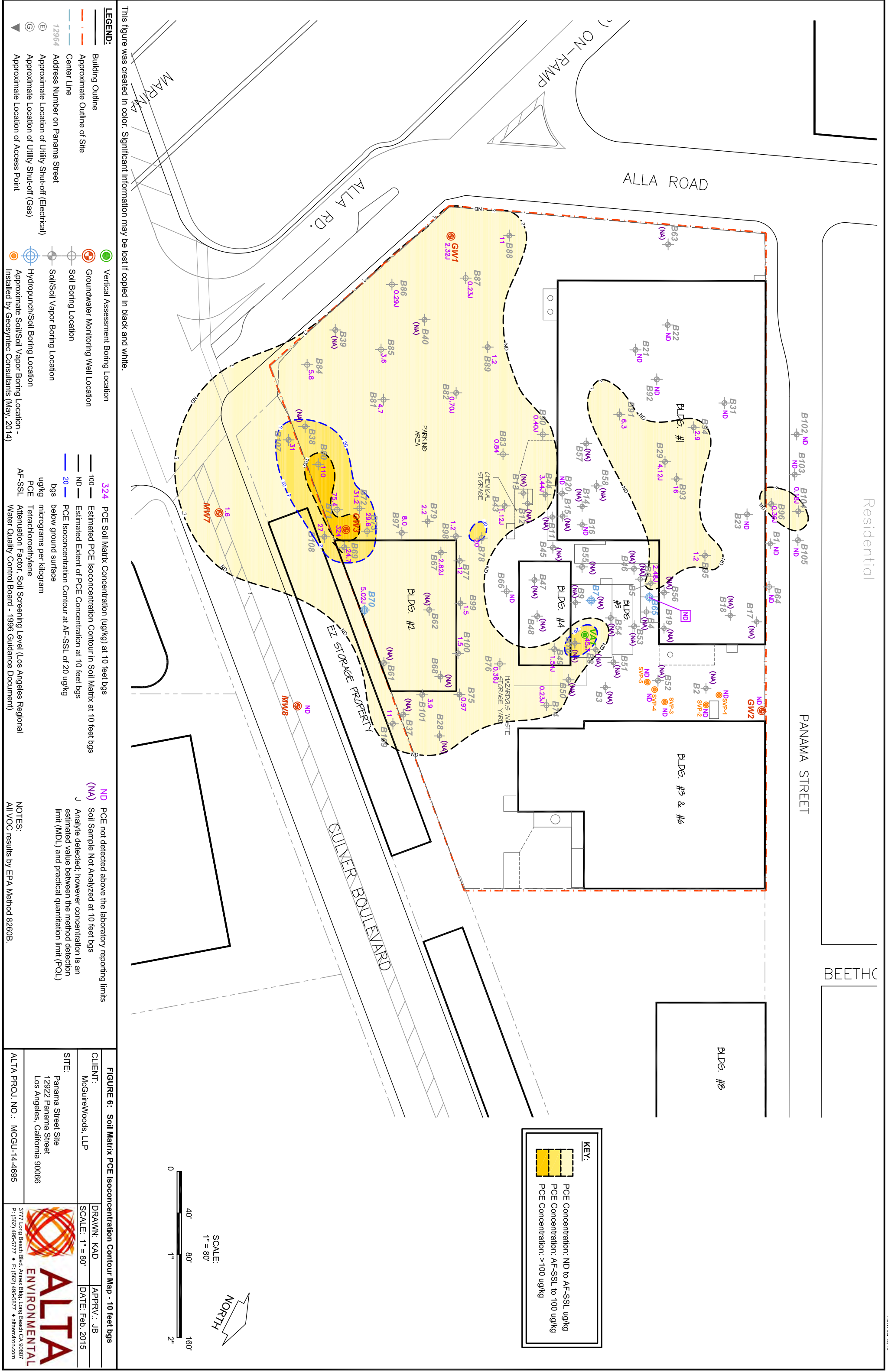
CLIENT: McGuireWoods, LLP	DRAWN: KAD	APPRV.: JB
	SCALE: 1" = 80'	DATE: Feb. 2015
SITE: Panama Street Site 12922 Panama Street Los Angeles, California 90066		
ALTA PROJ. NO.: MCGU-14-4695	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com	



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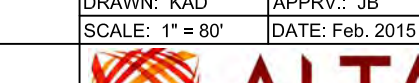








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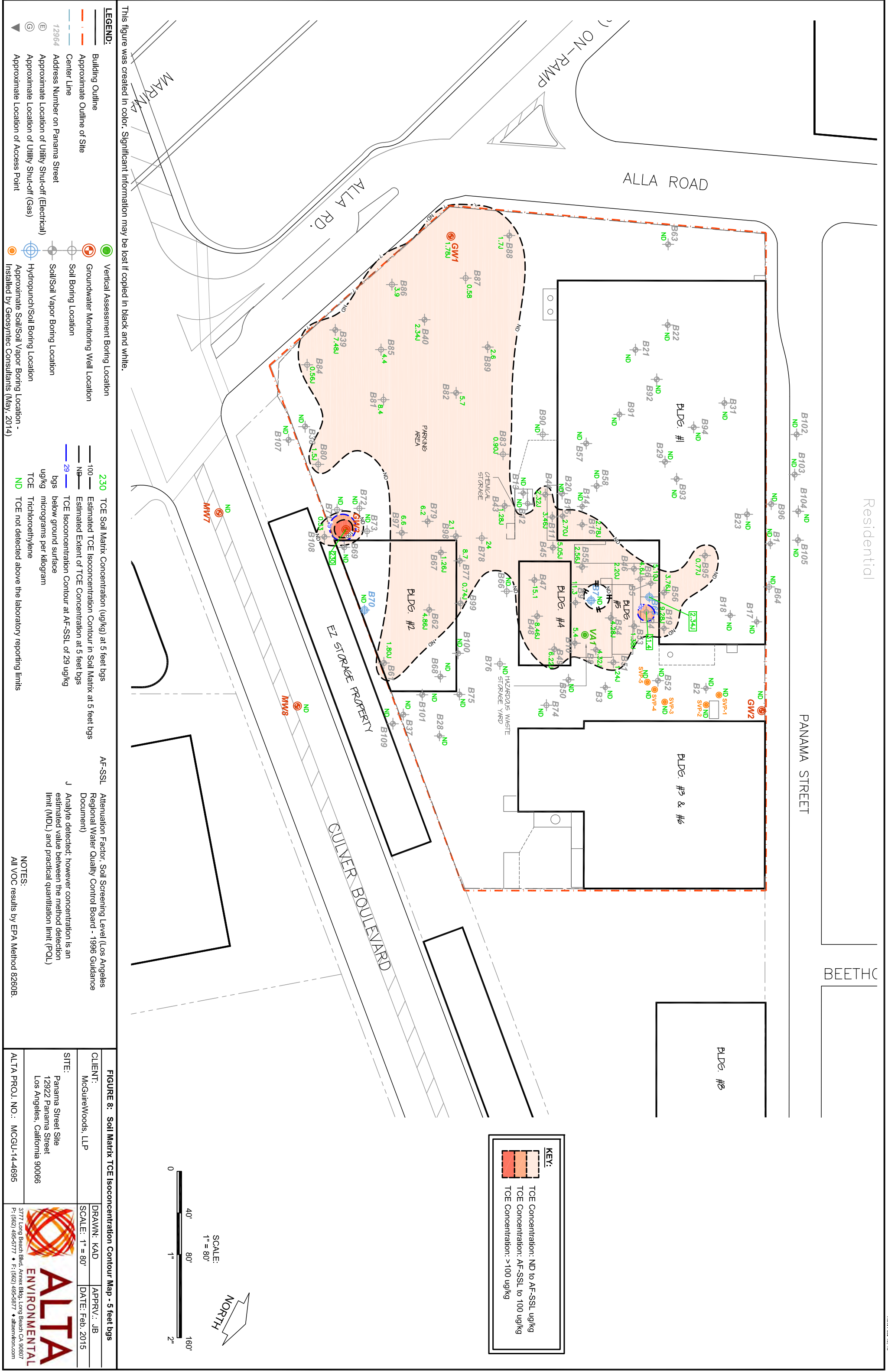




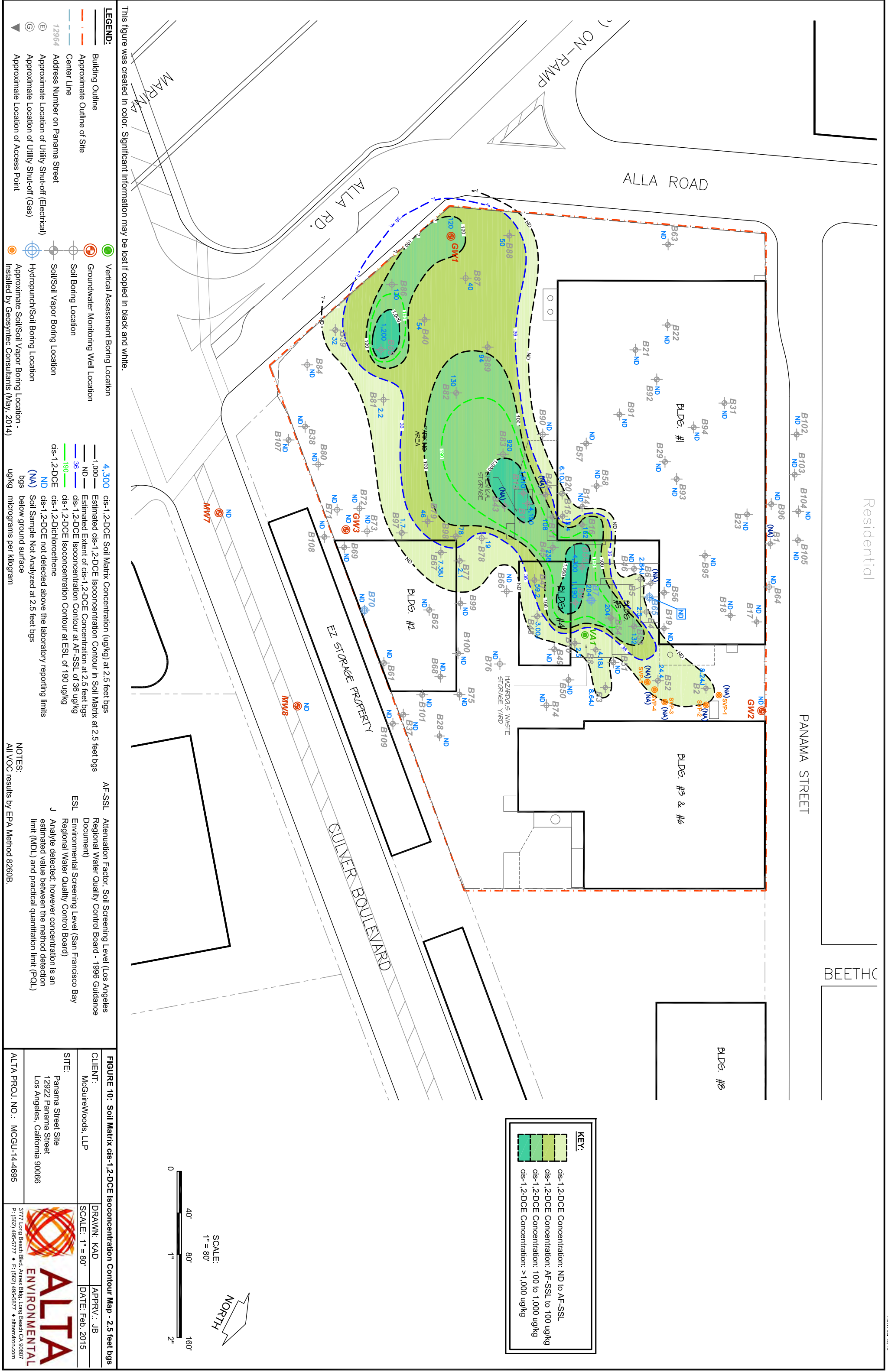


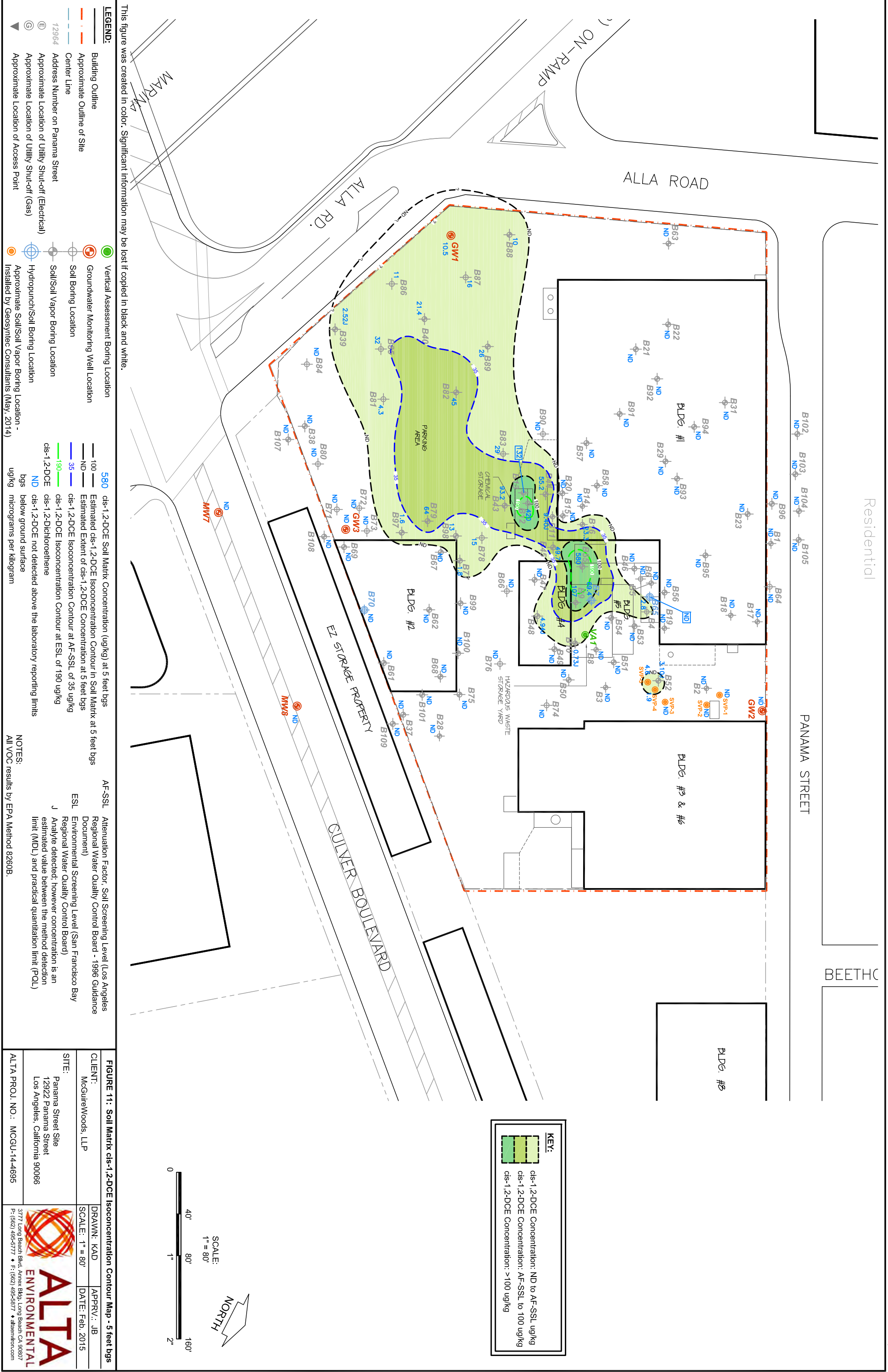
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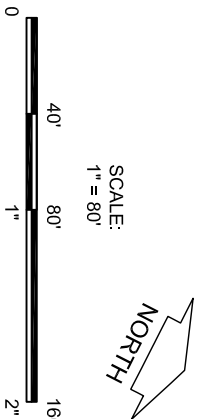
LEGEND:								FIGURE 7: Soil Matrix TCE Isoconcentration Contour Map - 2.5 feet bgs			
	Building Outline		Vertical Assessment Boring Location		1,200	TCE Soil Matrix Concentration (ug/kg) at 2.5 feet bgs	ESL	Environmental Screening Level (San Francisco Bay Regional Water Quality Control Board)	CLIENT:	DRAWN: KAD	APPRV.: JB
	Approximate Outline of Site		Groundwater Monitoring Well Location		ND	Estimated Extent of TCE Concentration at 2.5 feet bgs	TCE	Trichloroethylene	McGuireWoods, LLP	SCALE: 1" = 80'	DATE: Feb. 2015
	Center Line		Soil Boring Location		30	TCE Isoconcentration Contour at AF-SSL of 30 ug/kg	ND	TCE not detected above the laboratory reporting limits	SITE: Panama Street Site 12922 Panama Street Los Angeles, California 90066		ALTA PROJ. NO.: MCGU-14-4695
	Address Number on Panama Street		Soil/Soil Vapor Boring Location		460	TCE Isoconcentration Contour at ESL of 460 ug/kg	(NA)	Soil Sample Not Analyzed at 2.5 feet bgs			
	Approximate Location of Utility Shut-off (Electrical)		Hydropunch/Soil Boring Location	bgs		below ground surface	J	Analyte detected; however concentration is an estimated value between the method detection limit (MDL) and practical quantitation limit (PQL)			
	Approximate Location of Utility Shut-off (Gas)		Approximate Soil/Soil Vapor Boring Location - Installed by Geosyntec Consultants (May, 2014)	ug/kg		micrograms per kilogram	NOTES:		3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviro.com		
	Approximate Location of Access Point			AF-SSL		Attenuation Factor, Soil Screening Level (Los Angeles Regional Water Quality Control Board - 1996 Guidance Document)	All VOC results by EPA Method 8260B.				













KEY:
 cis-1,2-DCE Concentration: ND to Af-SSL ug/kg
 cis-1,2-DCE Concentration: >Af-SSL

LEGEND:			
	Vertical Assessment Boring Location		
	Building Outline		
	Approximate Outline of Site		
	Center Line		
12964	Address Number on Panama Street		
	Approximate Location of Utility Shut-off (Electrical)		
	Approximate Location of Utility Shut-off (Gas)		
	Approximate Location of Access Point		
	Vertical Assessment Boring Location		
	Groundwater Monitoring Well Location		
	Soil Boring Location		
	Soil/Soil Vapor Boring Location		
	Hydropunch/Soil Boring Location		
	Approximate Soil/Soil Vapor Boring Location - Installed by Geosyntec Consultants (May, 2014)		
46.2	cis-1,2-DCE Soil Matrix Concentration (ug/kg) at 10 feet bgs	AF-SSL	Attenuation Factor, Soil Screening Level (Los Angeles Regional Water Quality Control Board - 1996 Guidance Document)
ND	Estimated Extent of cis-1,2-DCE Concentration at 10 feet bgs		
24	ds-1,2-DCE Isoconcentration Contour at AF-SSL of 24 ug/kg	J	Analyte detected; however concentration is an estimated value between the method detection limit (MDL) and practical quantitation limit (PQL)
bgs	below ground surface		
ug/kg	micrograms per kilogram		
cis-1,2-DCE	cis-1,2-Dichloroethene		
ND	cis-1,2-DCE not detected above the laboratory reporting limits		
(NA)	Soil Sample Not Analyzed at 10 feet bgs		
NOTES:			
All VOC results by EPA Method 8260B.			

FIGURE 12: Soil Matrix cis-1,2-DCE Isoconcentration Contour Map - 10 feet bgs

CLIENT:	DRAWN: KAD	APPROV.: JB
McGuireWoods, LLP	SCALE: 1" = 80'	DATE: Feb. 2015

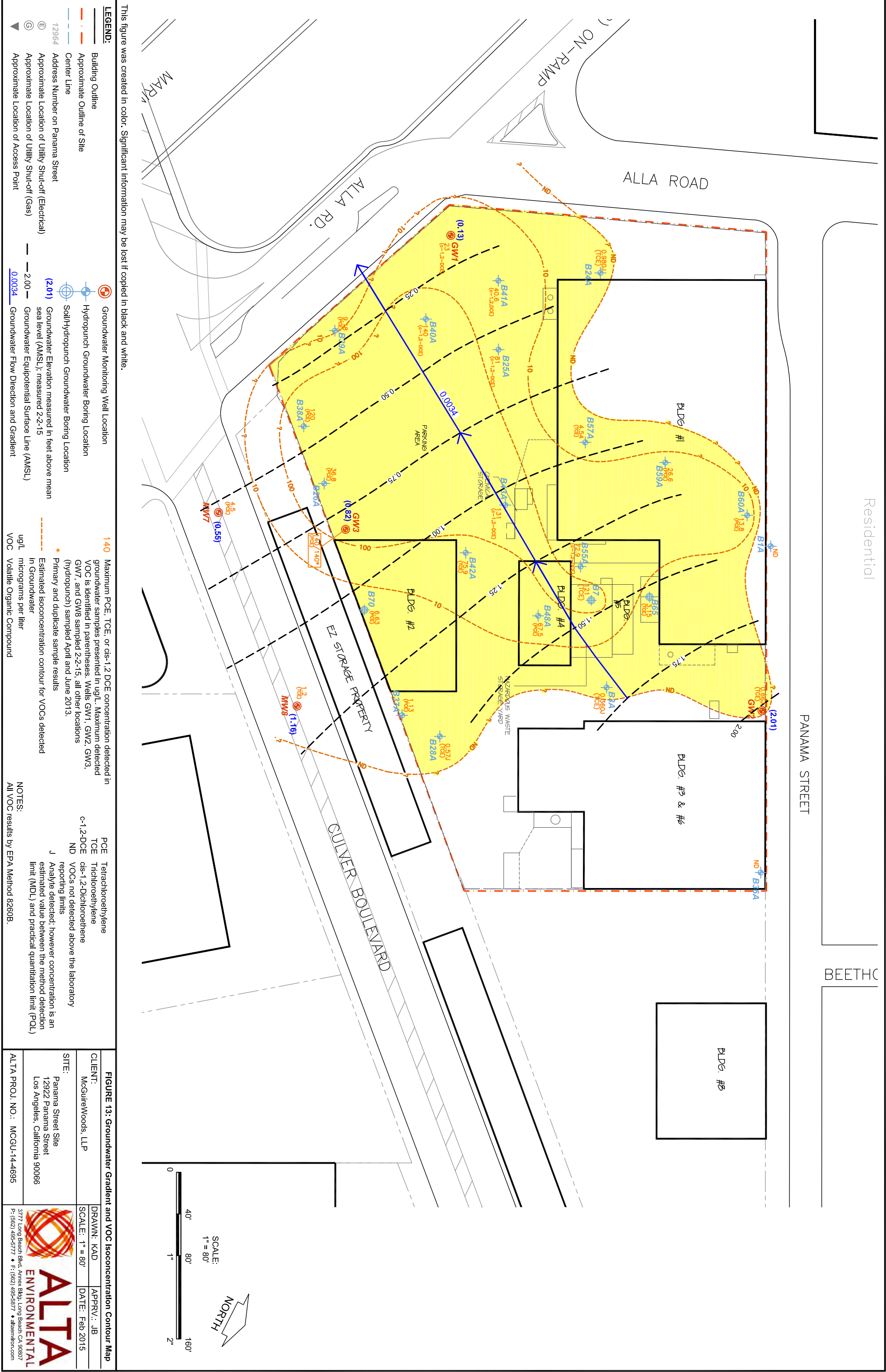
SITE:

Panama Street Site
12922 Panama Street
Los Angeles, California 90066

ALTA PROJ. NO.: MCGU-14-4695

ALTA
ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg., Long Beach CA 90807
P: (562) 495-5777 • F: (562) 495-5877 • altaenviro.com



APPENDIX A

LADPW and Public Health Permits

APPLICATION / PERMIT FOR EXCAVATION
IN OR ADJACENT TO PUBLIC STREETS
UNDER CHAPTER 6, ARTICLE 2, LOS ANGELES MUNICIPAL CODE

THIS PERMIT IS NOT VALID UNLESS REGISTER VALIDATED OR RECEIPT SHOWN																																																																			
JOB ADDRESS 12922 Panama St., Los Angeles, CA		RECEIPT NO. This permit is for installation of four soilboring, located at PB102, PB103, PB104, PB105. Soilborings in Caltrans right of way are not to be inspected under this permit. Traffic control per attached plan. Backfill aproved by Green Book standards is required. Call for inspection before any work is done at 213-485-8384.																																																																	
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ADDRESS 3777 Long Beach Blvd., Annex Building																																																																			
CITY Long Beach																																																																			
STATE CA	ZIP CODE 90807																																																																		
TELEPHONE 562-495-5777																																																																			
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GENERAL CONDITIONS:

WORK IN PUBLIC RIGHT OF WAY IS ALLOWED ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:30 P.M.

PERMITTEE SHALL STOP WORK AND CONTACT THE PERMITTING AGENCY PRIOR TO CUTTING OR EXCAVATING ANY DECORATIVE SIDEWALK, PAVEMENT, OR CROSSWALK.

ANY DAMAGE TO DECORATIVE SIDEWALK, PAVEMENT, OR CROSSWALK MUST BE REPAIRED IN KIND OR RECONSTRUCTED IN KIND BY THE PERMITTEE, AS DIRECTED BY THE PERMITTING AGENCY, IN A MANNER SATISFACTORY TO THE CITY ENGINEER AND THE INSPECTOR OF PUBLIC WORKS.

INSPECTION

CALL BUREAU OF CONTRACT ADMINISTRATION FOR INSPECTION PRIOR TO COMMENCING WORK.

BUREAU OF CONTRACT ADMINISTRATION INSPECTION WORK MUST BE REQUESTED NO LATER THAN NOON OF PRECEDING WORK DAY. THE NUMBERS TO CALL FOR THE INSPECTION ARE:

JOB LOCATIONS IN SAN FERNANDO VALLEY: (818) 374-1188

JOB LOCATIONS NOT IN SAN FERNANDO VALLEY: (213) 485-5080

CALL FOR INSPECTION OF PERMANENT RESURFACING NO LATER THAN NOON OF THE PRECEDING WORK DAY.

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CALL FOR INSPECTION OF PERMANENT RESURFACING NO LATER THAN NOON OF THE PRECEDING WORK DAY.



ENVIRONMENTAL HEALTH

Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
12922 Panama St	Los Angeles	90066	Jonathan.barkman@altaenviron.com

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- **ONCE APPROVED NOTIFY BELINDA LARSEN AT blarsen@ph.lacounty.gov PREFERABLY 4 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.**

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

☒ WORK PLAN APPROVED

DATE: 10-29-2014

ADDITIONAL APPROVAL CONDITIONS:

On 10-23-2014 \$ 3,114.00 was paid for permit # 893602 to construct 6 monitoring wells. Follow the work plan submitted and maintain any setback requirements. Follow all requirements set-forth in the California Well Standards bulletin (74-90). Notify me by e-mail prior to start of work at blarsen@ph.lacounty.gov.



Belinda Larsen R.E.H.S.
818-593-7308

☐ ANNULAR SEAL FINAL INSPECTION REQUIRED

☐ WELL COMPLETION LOG REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

☐ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

☐ WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

☐ WATER SUPPLY YIELD REQUIRED

☐ OTHER REQUIREMENT

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature



ENVIRONMENTAL HEALTH

Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Service Request Application

SERVICE	FEE	QTY	TOTALS
PRODUCTION WELLS			
<input type="checkbox"/> residential drinking water, <input type="checkbox"/> public/municipal, <input type="checkbox"/> irrigation, <input type="checkbox"/> cathodic			
<input type="checkbox"/> Construction	\$ 844.00	x	= \$
<input type="checkbox"/> Decommission <input type="checkbox"/> Renovation	\$ 1103.00	x	= \$
NON-PRODUCTION WELLS <input type="checkbox"/> Construction, <input type="checkbox"/> Decommission			
<input type="checkbox"/> monitoring, <input type="checkbox"/> piezo, <input type="checkbox"/> injection, <input type="checkbox"/> water extraction, <input type="checkbox"/> sparge, <input type="checkbox"/> test			
each well, first 24 wells	\$ 519.00	x 6	= \$ 3,114
each additional well starting with the 25 th	\$ 130.00	x	= \$
CPT/HYDROPUNCH/SOIL BORINGS INTO GROUNDWATER (contact the Drinking Water Program for projects of 25 borings or more)	\$ 130.00	x	= \$
GEOHERMAL HEAT EXCHANGE WELLS	\$ 519.00	x	= \$
WELL SITE PLAN REVIEW	\$ 584.00	x	= \$
WATER SUPPLY YIELD EVALUATION commercial facility	\$ 1038.00	x	= \$
WATER SUPPLY YIELD EVALUATION residential (1-4 service connections)	\$ 844.00	x	= \$
WATER SUPPLY YIELD EVALUATION Public Water Systems (5 or more service connections)	\$ 519.00	x	= \$
WATER TREATMENT SYSTEM EVALUATION	\$ 519.00	x	= \$
WATER SAMPLING commercial food service facility for USDA certification	\$ 714.00	x	= \$

Applications are nontransferable. Field Personnel cannot accept payments. DO NOT SEND CASH.
Make checks or money orders payable to:

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH

Allow **10** business days for work plan review and response. Cancellations of service requests are subject to a \$65.00 processing fee plus additional plan review fees (hourly rate as applicable).

12922 Panama Street	Los Angeles	CA	Alla Road	10/23/2014
WORK SITE ADDRESS	CITY	ZIP	CROSS STREET/PARCEL#	DATE

All application status inquiries should be emailed to waterquality@ph.lacounty.gov with the work site address above.

CONTACT OFFICE		DEPARTMENT STAMP	
		DATE:	CHECK #
		RECEIPT #	AMOUNT: \$
SITE/PERMIT#	INSPECTOR:		



ENVIRONMENTAL HEALTH

Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Well Permit Application

WORK SITE ADDRESS 12922 Panama Street	CITY Los Angeles	ZIP 90066	NUMBER OF WELLS 6	START DATE 11/17/14
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OWNER Greenberg Glusker Fields Claman & Machtinger LLP, David E. Cranston		EMAIL DCranston@greenbergglusker.com	
ADDRESS 1900 Avenue of the Stars, 21st Flr.	CITY Los Angeles	ZIP 90067	TELEPHONE 310-785-6897

DRILLER Cascade Drilling, LP	PROJECT CONTACT Tracy Spilotro	C-57 LICENSE NUMBER 938110
ADDRESS 1333 West 9th Street	CITY Upland	ZIP
EMAIL tspilotro@cascadedrilling.com	TELEPHONE 562-929-8176	MOBILE

CONSULTANT Alta Environmental	PROJECT CONTACT Reid Shigeno	PROJECT MANAGER Jonathan Barkman
ADDRESS 3777 Long Beach Blvd., Annex Building	CITY Long Beach	ZIP 90807
EMAIL jonathan.barkman@altaenviron.com	TELEPHONE 562-495-5777	MOBILE 310-920-8404

ATTACH ALL SUPPORTING DOCUMENTS, INCLUDING:

- ☒ written narrative describing work plan details
- ☒ vertical well diagram detailing depths, sizes, thicknesses, and materials of: (1) the casing, (2) the annular (sanitary) seal, (3) the screens/slotting, and (4) any pertinent geological features
- ☒ scaled drawing of roads, property lines, private sewage disposal systems, surface water features, blue line streams, and other possible sources of contamination within 200 feet of the well site

FOR WELL DECOMMISSION: ☐ well construction logs, ☐ the method of assessment, ☐ type and amount of sealant, and ☐ the method of upper seal pressure application (including PSI and time applied)

PRODUCTION WELLS	
<input type="checkbox"/> PUBLIC (MUNICIPAL UTILITY)	<input type="checkbox"/> PRIVATE RESIDENCE
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> CATHODIC PROTECTION
<input type="checkbox"/> GEOTHERMAL HEAT EXCHANGE	
<input type="checkbox"/> OTHER	
NAME OF C-57 LICENSEE	
SIGNATURE	

NON-PRODUCTION WELLS	
<input checked="" type="checkbox"/> MONITORING	<input type="checkbox"/> PIEZOMETER
<input type="checkbox"/> INJECTION	<input type="checkbox"/> WATER EXTRACTION
<input type="checkbox"/> AIR SPARGE	<input type="checkbox"/> TEST HOLE (PRE-PRODUCTION)
<input type="checkbox"/> HYDROPUNCH	<input type="checkbox"/> CONE PENETROMETER (CPT)
<input type="checkbox"/> SOIL BORING INTO GROUNDWATER	
NAME OF APPLICANT	
Alta Environmental - Jonathan Barkman	
SIGNATURE	

BY SIGNING ABOVE, I HEREBY AGREE TO COMPLY IN EVERY RESPECT WITH ALL THE REGULATIONS, ORDINANCES, AND LAWS OF THE STATE OF CALIFORNIA, THE COUNTY OF LOS ANGELES, THE DEPARTMENT OF PUBLIC HEALTH, AND THE ENVIRONMENTAL HEALTH DRINKING WATER PROGRAM.



ENVIRONMENTAL HEALTH

Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: waterquality@ph.lacounty.gov
http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Well Permit Approval

TO BE COMPLETED BY APPLICANT:

WORK SITE ADDRESS 12922 Panama Street	CITY Los Angeles	ZIP 90066	EMAIL ADDRESS FOR WELL PERMIT APPROVAL jonathan.barkman@altaenviron.com
--	---------------------	--------------	--

NOTICE:

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- THIS WELL PERMIT APPROVAL IS LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- ALL FIELD WORK MUST BE CONDUCTED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF CALIFORNIA.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- **NOTIFY THE DRINKING WATER PROGRAM BY EMAIL 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.**

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

<input type="checkbox"/> WORK PLAN INCOMPLETE; SUBMIT THE FOLLOWING:	<input type="checkbox"/> WORK PLAN APPROVED Los Angeles County Drinking Water stamp	DATE: ADDITIONAL APPROVAL CONDITIONS:
---	--	--

☐ ANNULAR SEAL FINAL INSPECTION REQUIRED

☐ WELL COMPLETION LOG REQUIRED

DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature
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☐ WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

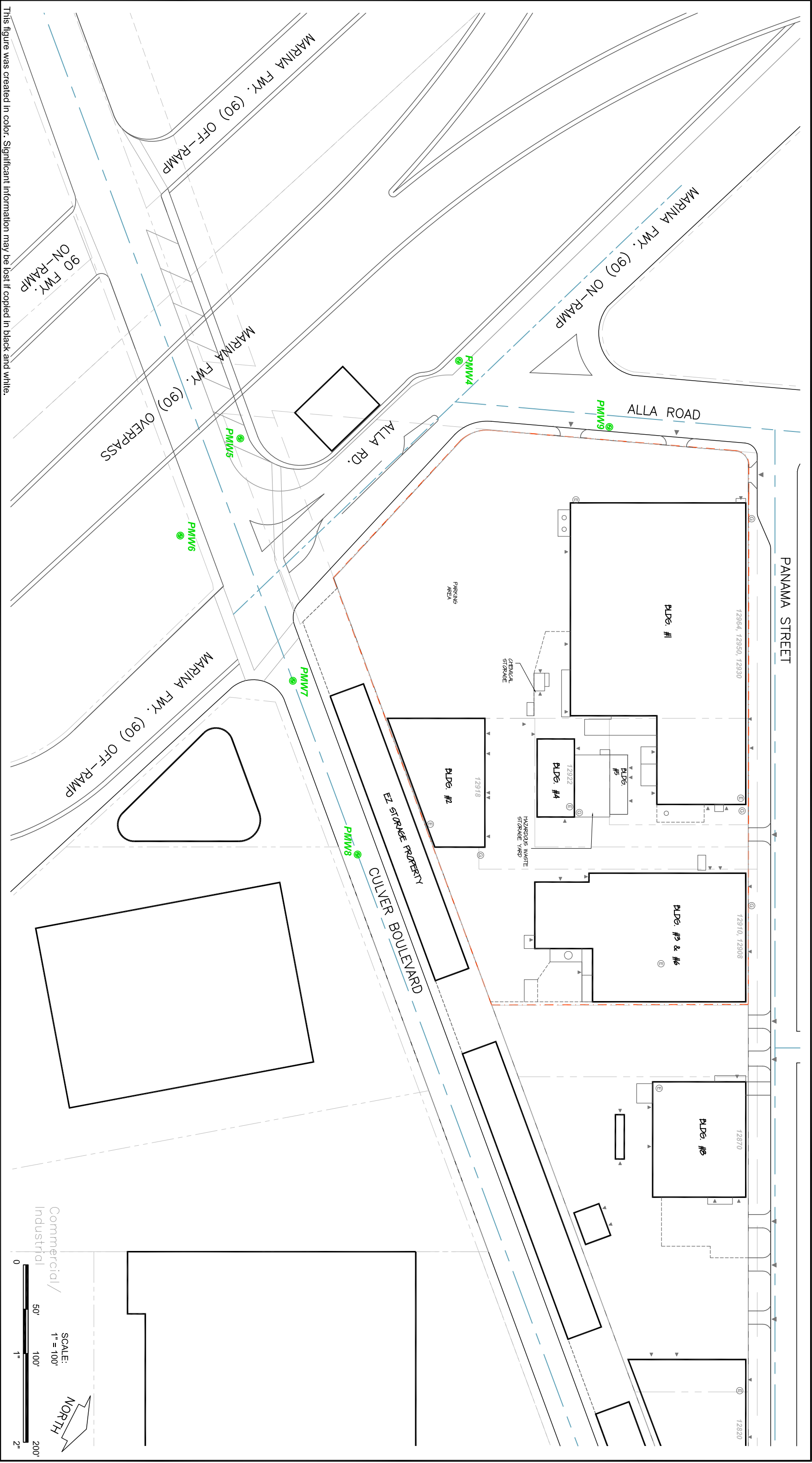
☐ WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature
-------------------------------	-------------------------------

☐ WATER SUPPLY YIELD REQUIRED

☐ OTHER REQUIREMENT

DATE ACCEPTED: REHS signature	DATE ACCEPTED: REHS signature
-------------------------------	-------------------------------



CLIENT:		FIGURE: Site Layout Map	
McGuireWoods, LLP		DRAWN: KAD	APPRV.: JB
SCALE: 1" = 100'		DATE: Aug. 2013	

SITE:

Panama Street Site
12922 Panama Street
Los Angeles, California 90066

ALTA ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg., Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenv.com

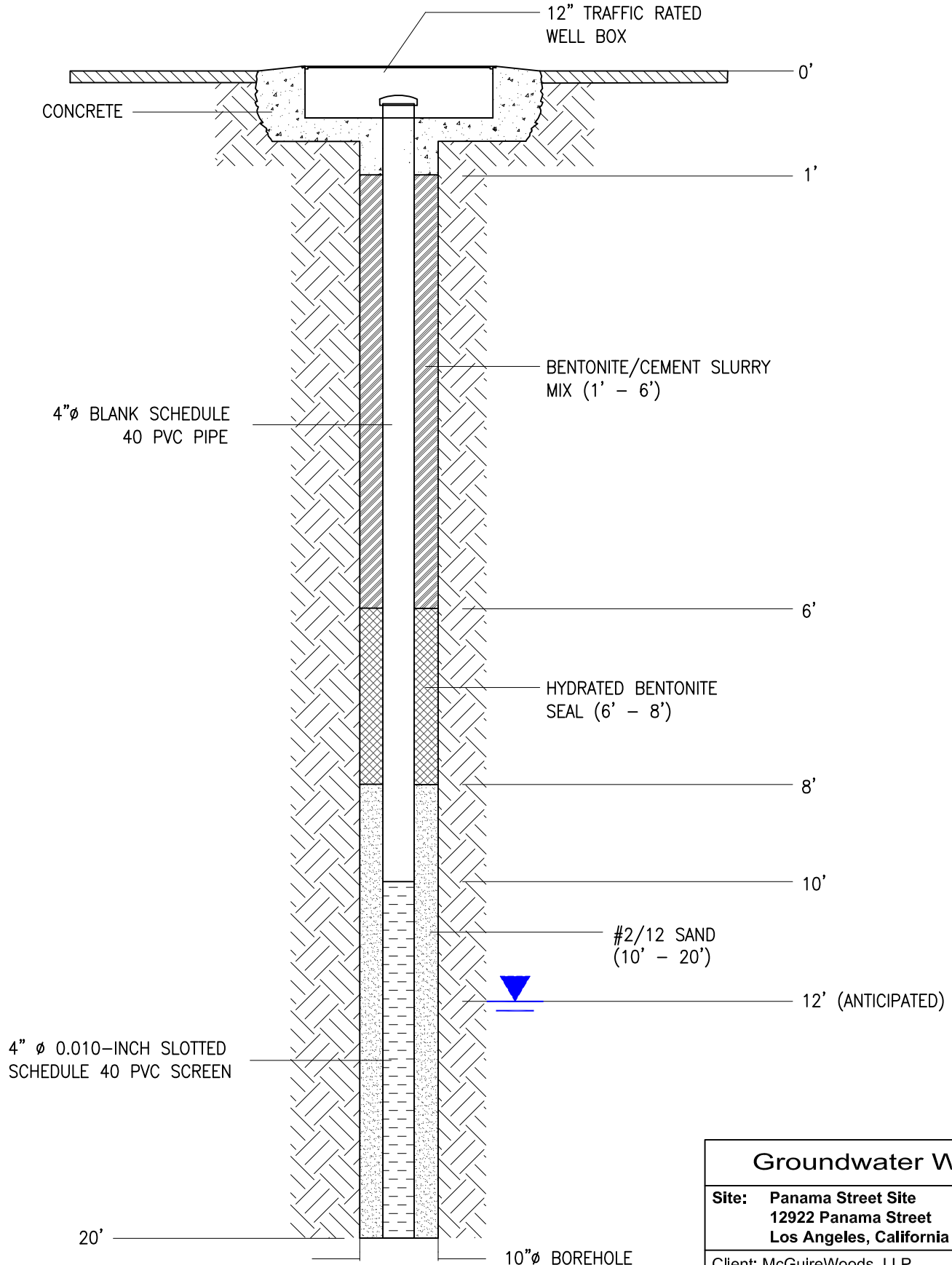
ALTA PROJ. NO.: MCGU-13-2252



ALTA
ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, California 90807
P: (562) 495-5777 ♦ F: (562) 495-5877
www.altaenviron.com

GROUNDWATER MONITORING WELL CONSTRUCTION DIAGRAM



Groundwater Well

Site: Panama Street Site
12922 Panama Street
Los Angeles, California 90066

Client: McGuireWoods, LLP

Alta Job No.: MCGU-14-4692

Drawn By: RS

Apprv. By: SR

Scale: Not to Scale

Date: Sept. 2014

APPENDIX B

Boring Logs

ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER MCGU-14-4695	BORING/WELL NUMBER B102
PROJECT NAME Panama Street site	DATE DRILLED 1/14/2015
LOCATION Panama Street, Los Angeles, California	CASING DIAMETER/TYPE N/A
DRILLING METHOD Hand-auger	SLOT SIZE NA SCREEN INTERVAL NA
SAMPLING METHOD Hand-auger	GRAVEL PACK TYPE #3 Sand
BORING DIAMETER 4"	DRILLING CONTRACTOR Interphase Environmental
BORING DEPTH (FT BGS) 6.75 WELL DEPTH (FT BGS) 3' & 6.5'	DEPTH TO WATER DURING DRILLING (FT BGS) NA
LOGGED BY SR CHECKED BY SR	DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA
REMARKS PID calibrated to 50 ppm hexane, hand augered borings to total depth	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1020		B102-2.5			AC		1/4" Teflon Tubing (typical)	0.0	5" Concrete
					CL		Dry granular bentonite (typical)		Silty Clay, dark brown, moist to very moist, stiff, moderate plasticity, no odor, no staining (likely fill)
							Sand pack (#3 Sand - typical)		
1052		B102-5		5	CH		Seal (hydrated bentonite chips)	1.7	Silty Fat Clay, dark brown, very moist, high plasticity, stiff, no odor, no staining (likely fill)
							Dry granular bentonite (typical)		
							1/4" Soil-gas implant (typical)		
									Boring terminated at 6'9" bgs due to refusal.
									Moved boring 3 feet to the northwest and redrilled, same obstruction encountered at 6'9".
									Set 6"- diameter well box at the surface.
									No groundwater encountered.
				10					

ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER MCGU-14-4695
PROJECT NAME Panama Street site
LOCATION Panama Street. Los Angeles, California
DRILLING METHOD Hand-auger
SAMPLING METHOD Hand-auger
BORING DIAMETER 4"
BORING DEPTH (FT BGS) 6.5 **WELL DEPTH (FT BGS)** 3' & 6.5'
LOGGED BY SR **CHECKED BY** SR
REMARKS PID calibrated to 50 ppm hexane, hand augered borings to total depth

BORING/WELL NUMBER B103
DATE DRILLED 1/14/2015
CASING DIAMETER/TYPE N/A
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE #3 Sand
DRILLING CONTRACTOR Interphase Environmental
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1355		B103-2.5			AC		1/4" Teflon Tubing (typical)	0.0	5" Concrete
1415		B103-5		5	CH		Dry granular bentonite (typical) Sand pack (#3 Sand - typical) Seal (hydrated bentonite chips - typical) Dry granular bentonite (typical) 1/4" Soil-Gas Implant (typical)	0.0	Silty Fat Clay , dark brown, high plasticity, moist to very moist, stiff, scattered coarse sand, no odor, no staining (likely fill) Boring terminated at 6.75' bgs due to refusal. Set 6" diameter well box at surface. No groundwater encountered.
				10					

ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER MCGU-14-4695	BORING/WELL NUMBER B104
PROJECT NAME Panama Street site	DATE DRILLED 1/15/2015
LOCATION Panama Street, Los Angeles, California	CASING DIAMETER/TYPE N/A
DRILLING METHOD Hand-auger	SLOT SIZE NA SCREEN INTERVAL NA
SAMPLING METHOD Hand-auger	GRAVEL PACK TYPE #3 Sand
BORING DIAMETER 4"	DRILLING CONTRACTOR Interphase Environmental
BORING DEPTH (FT BGS) 10.5 WELL DEPTH (FT BGS) 4' & 8'	DEPTH TO WATER DURING DRILLING (FT BGS) 9
LOGGED BY SR CHECKED BY SR	DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA
REMARKS PID calibrated to 50 ppm hexane, hand augered borings to total depth	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1330		B104-2.5			AC		1/4" Teflon Tubing (typical)	0.0	6.5" Concrete
1335		B104-5		5	CL		Dry granular bentonite (typical)	0.0	Silty Clay, dark brown, moist to very moist, stiff, mottled, becoming sandy at approx. 5' bgs, no staining, no odor (likely fill)
							Sand pack (#3 Sand - typical)		
							Seal (hydrated bentonite chips - typical)		
							Dry granular bentonite (typical)		
					CH		1/4" Soil-Gas Implant (typical)		Sandy Fat Clay medium brown, medium stiff, high plasticity, mottled, scattered well-rounded coarse sand and gravel, becoming more wet with depth, no staining, no odor
1400		B104-10		10				0.0	Boring terminated at 10.5' bgs. Set 6" well box at surface. Groundwater encountered at 9' bgs.

WELL-MODIFIED MCGU-14-4695 PANAMA STREET.GPJ WELL.GDT 2/4/15

ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER MCGU-14-4695	BORING/WELL NUMBER B105
PROJECT NAME Panama Street site	DATE DRILLED 1/15/2015
LOCATION Panama Street, Los Angeles, California	CASING DIAMETER/TYPE N/A
DRILLING METHOD Hand-auger	SLOT SIZE NA SCREEN INTERVAL NA
SAMPLING METHOD Hand-auger	GRAVEL PACK TYPE #3 Sand
BORING DIAMETER 4"	DRILLING CONTRACTOR Interphase Environmental
BORING DEPTH (FT BGS) 10.5 WELL DEPTH (FT BGS) 4' & 8'	DEPTH TO WATER DURING DRILLING (FT BGS) 10
LOGGED BY SR CHECKED BY SR	DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA
REMARKS PID calibrated to 50 ppm hexane, hand augered borings to total depth	

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1035		B105-2.5			AC			0.0	7" Concrete
1040		B105-5		5	CL		1/4" Teflon Tubing (typical) Dry granular bentonite (typical) Sand pack (#3 Sand - typical)	0.0	Silty Clay, medium to dark brown, mottled, moist, stiff, no staining, no odor (likely fill)
							Seal (hydrated bentonite chips - typical)		
							Dry granular bentonite (typical)		
							1/4" Soil-Gas Implant (typical)		
1115		B105-10		10	CH			0.0	Silty Fat Clay, medium brown, very moist, stiff, sticky, no staining, no odor
									Boring terminated at 10.5' bgs.
									Set 6" well box at surface.
									Groundwater encountered at 10' bgs.

WELL-MODIFIED MCGU-14-4695 PANAMA STREET.GPJ WELL GDT 2/4/15

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER MCGU-14-4695 BORING/WELL NUMBER MW7
 PROJECT NAME Panama Street Site DATE DRILLED 1/26/2015
 LOCATION Culver Blvd. / South of Site CASING DIAMETER/TYPE 4" Schedule 40 PVC
 DRILLING METHOD Hollow-stem-auger SLOT SIZE 0.01" SCREEN INTERVAL 9'-19'
 SAMPLING METHOD Split-Spoon GRAVEL PACK TYPE #2/12 Sand
 BORING DIAMETER 10" DRILLING CONTRACTOR Cascade Drilling
 BORING DEPTH (FT BGS) 19.5 WELL DEPTH (FT BGS) 19'
 LOGGED BY SR CHECKED BY SR DEPTH TO WATER DURING DRILLING (FT BGS) 10
 REMARKS PID calibrated to 50 ppm hexane, hand auger the upper 5' DEPTH TO WATER AFTER INSTALLATION (FT BGS) 11'

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1250		MW7-2.5			AC		Well Box Secured with Cement	2.9	6" Asphalt Well Graded Sand with Gravel, medium brown, fine to coarse sand, damp, medium dense, (fill, subbase material), no odor, no staining Clayey Silt, medium grey, damp, stiff, no odor, no staining
1320	9 10 10	MW7-5		5	SW		Seal (hydrated bentonite chips - typical)	1.8	Silty Clay, medium grey to medium brown, mottled with orange brown, moist, stiff, no odor, no staining
1325	7 11 11	MW7-10		10	ML		4" Dia. PVC Blank	0.5	Silty Sand, fine grained sand with interbeds of fine to medium grained sand, medium brown, dense, wet, no odor, no staining
	5 7 10			15	CL		Sand pack (#2/12 Sand - typical)		
	4 6 7			20	SM-SP		4" Dia. 0.01" Slotted Well Screen		
				25	CH				Fat Clay, medium grey, stiff, high plasticity, moist, no odor, no staining Boring terminated at 19.5' bgs Groundwater encountered at 10' bgs

WELL-MODIFIED MCGU-14-4695 CULVERT ST MWS GPJ WELL.GDT 2/11/15

ALTA ENVIRONMENTAL Boring Log

PROJECT NUMBER MCGU-14-4695
PROJECT NAME Panama Street Site
LOCATION Culver Blvd. / South of Site
DRILLING METHOD Hollow-stem-auger
SAMPLING METHOD Split-Spoon
BORING DIAMETER 10"
BORING DEPTH (FT BGS) 19.5 **WELL DEPTH (FT BGS)** 19'
LOGGED BY SR **CHECKED BY** SR
REMARKS PID calibrated to 50 ppm hexane, hand auger the upper 5'

BORING/WELL NUMBER MW8
DATE DRILLED 1/26/2015
CASING DIAMETER/TYPE 4" Schedule 40 PVC
SLOT SIZE 0.01" **SCREEN INTERVAL** 9'-19'
GRAVEL PACK TYPE #2/12 Sand
DRILLING CONTRACTOR Cascade Drilling
DEPTH TO WATER DURING DRILLING (FT BGS) 11
DEPTH TO WATER AFTER INSTALLATION (FT BGS) 11'

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1008		MW8-2.5			AC				8" Asphalt
					ML		Well Box Secured with Cement	3.0	Clayey Silt, dark grey/black, stiff, damp, strong hydrocarbon odor, black staining, fill material
1050	5 7 11	MW8-5		5	CL		Seal (hydrated bentonite chips - typical)	1.0	Clay with Gravel, greyish brown, moist, stiff, no staining, no odor, fill material
					CL		4" Dia. PVC Blank		
1055	9 12 17	MW8-10		10				0.7	Silty Clay, damp, very stiff, mottled-medium grey and orangish brown, no staining, no odor
	4 6 9			15	SM-SP		Sand pack (#2/12 Sand - typical)		Silty Sand, fine grained sand with layers of fine to medium grained sand, medium brown, wet, dense, no staining, no odor
	2 3 3						4" Dia. 0.01" Slotted Well Screen		
					CH				Fat Clay, medium gray, moist, high plasticity, medium stiff, no staining, no odor
				20					Boring terminated at 19.5' bgs
									Groundwater encountered at 11' bgs
				25					

APPENDIX C

Laboratory Analytical Reports – Soil Matrix Samples



Supplemental Report 1

The original report has been revised/corrected.

**WORK ORDER NUMBER: 15-01-0764***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** Alta Environmental**Client Project Name:** Maguire - Woods**Attention:** Steve Ridenour
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

A handwritten signature in black ink that reads "Vikas Patel".

Approved for release on 02/03/2015 by:
Vikas Patel
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: Maguire - Woods
 Work Order Number: 15-01-0764

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	3.2 EPA 7471A Mercury (Solid).	11
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Work Order Narrative

Work Order: 15-01-0764Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/14/15. They were assigned to Work Order 15-01-0764.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-01-0764
 Project Name: Maguire - Woods
 Received: 01/14/15

Attn: Steve Ridenour

Page 1 of 2

Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
B102-2.5 (15-01-0764-1)						
Arsenic	13.1		0.746	mg/kg	EPA 6010B	EPA 3050B
Barium	158		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.729		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.161	J	0.135*	mg/kg	EPA 6010B	EPA 3050B
Chromium	42.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	31.9		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	4.25		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.532		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.3		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	65.8		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	81.2		0.995	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0199	J	0.00597*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	7.8	J	5.5*	ug/kg	EPA 8260B	EPA 5035
B102-5.0 (15-01-0764-2)						
Arsenic	13.2		0.746	mg/kg	EPA 6010B	EPA 3050B
Barium	132		0.498	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.730		0.249	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.269	J	0.135*	mg/kg	EPA 6010B	EPA 3050B
Chromium	43.6		0.249	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Copper	28.4		0.498	mg/kg	EPA 6010B	EPA 3050B
Lead	4.54		0.498	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.562		0.249	mg/kg	EPA 6010B	EPA 3050B
Nickel	35.0		0.249	mg/kg	EPA 6010B	EPA 3050B
Vanadium	64.4		0.249	mg/kg	EPA 6010B	EPA 3050B
Zinc	87.6		0.995	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0220	J	0.00559*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	8.2	J	4.9*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.13	J	0.10*	ug/kg	EPA 8260B	EPA 5035

* MDL is shown

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-01-0764
 Project Name: Maguire - Woods
 Received: 01/14/15

Attn: Steve Ridenour

Page 2 of 2

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B103-2.5 (15-01-0764-3)						
Arsenic	11.8		0.761	mg/kg	EPA 6010B	EPA 3050B
Barium	229		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.628		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.569		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.6		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.9		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	28.1		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	3.79		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.423		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.2		0.254	mg/kg	EPA 6010B	EPA 3050B
Vanadium	56.5		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	78.5		1.02	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0186	J	0.00597*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	27	J	5.4*	ug/kg	EPA 8260B	EPA 5035
B103-5.0 (15-01-0764-4)						
Arsenic	12.7		0.721	mg/kg	EPA 6010B	EPA 3050B
Barium	122		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.610		0.240	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.288	J	0.130*	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.9		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.1		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	28.9		0.481	mg/kg	EPA 6010B	EPA 3050B
Lead	3.53		0.481	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.771		0.240	mg/kg	EPA 6010B	EPA 3050B
Nickel	33.0		0.240	mg/kg	EPA 6010B	EPA 3050B
Vanadium	58.2		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	80.2		0.962	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0267	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	18	J	4.7*	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/14/15
 Work Order: 15-01-0764
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B102-2.5	15-01-0764-1-A	01/14/15 10:20	Solid	ICP 7300	01/15/15	01/16/15 20:53	150115L02A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.746	0.148	0.995	
Arsenic	13.1	0.746	0.258	0.995	
Barium	158	0.498	0.154	0.995	
Beryllium	0.729	0.249	0.136	0.995	
Cadmium	0.161	0.498	0.135	0.995	J
Chromium	42.0	0.249	0.142	0.995	
Cobalt	11.8	0.249	0.147	0.995	
Copper	31.9	0.498	0.134	0.995	
Lead	4.25	0.498	0.131	0.995	
Molybdenum	0.532	0.249	0.131	0.995	
Nickel	35.3	0.249	0.144	0.995	
Selenium	ND	0.746	0.298	0.995	
Silver	ND	0.249	0.0853	0.995	
Thallium	ND	0.746	0.151	0.995	
Vanadium	65.8	0.249	0.141	0.995	
Zinc	81.2	0.995	0.177	0.995	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/14/15
 Work Order: 15-01-0764
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B102-5.0	15-01-0764-2-A	01/14/15 10:52	Solid	ICP 7300	01/15/15	01/16/15 20:55	150115L02A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.746	0.148	0.995	
Arsenic	13.2	0.746	0.258	0.995	
Barium	132	0.498	0.154	0.995	
Beryllium	0.730	0.249	0.136	0.995	
Cadmium	0.269	0.498	0.135	0.995	J
Chromium	43.6	0.249	0.142	0.995	
Cobalt	12.4	0.249	0.147	0.995	
Copper	28.4	0.498	0.134	0.995	
Lead	4.54	0.498	0.131	0.995	
Molybdenum	0.562	0.249	0.131	0.995	
Nickel	35.0	0.249	0.144	0.995	
Selenium	ND	0.746	0.298	0.995	
Silver	ND	0.249	0.0853	0.995	
Thallium	ND	0.746	0.151	0.995	
Vanadium	64.4	0.249	0.141	0.995	
Zinc	87.6	0.995	0.177	0.995	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/14/15
 Work Order: 15-01-0764
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B103-2.5	15-01-0764-3-A	01/14/15 13:55	Solid	ICP 7300	01/15/15	01/16/15 20:57	150115L02A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.761	0.151	1.02	
Arsenic	11.8	0.761	0.263	1.02	
Barium	229	0.508	0.157	1.02	
Beryllium	0.628	0.254	0.139	1.02	
Cadmium	0.569	0.508	0.137	1.02	
Chromium	39.6	0.254	0.144	1.02	
Cobalt	10.9	0.254	0.150	1.02	
Copper	28.1	0.508	0.137	1.02	
Lead	3.79	0.508	0.134	1.02	
Molybdenum	0.423	0.254	0.134	1.02	
Nickel	32.2	0.254	0.147	1.02	
Selenium	ND	0.761	0.304	1.02	
Silver	ND	0.254	0.0870	1.02	
Thallium	ND	0.761	0.154	1.02	
Vanadium	56.5	0.254	0.143	1.02	
Zinc	78.5	1.02	0.180	1.02	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B103-5.0	15-01-0764-4-A	01/14/15 14:15	Solid	ICP 7300	01/15/15	01/16/15 21:05	150115L02A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.721	0.143	0.962	
Arsenic	12.7	0.721	0.249	0.962	
Barium	122	0.481	0.148	0.962	
Beryllium	0.610	0.240	0.132	0.962	
Cadmium	0.288	0.481	0.130	0.962	J
Chromium	39.9	0.240	0.137	0.962	
Cobalt	11.1	0.240	0.142	0.962	
Copper	28.9	0.481	0.130	0.962	
Lead	3.53	0.481	0.127	0.962	
Molybdenum	0.771	0.240	0.127	0.962	
Nickel	33.0	0.240	0.139	0.962	
Selenium	ND	0.721	0.288	0.962	
Silver	ND	0.240	0.0824	0.962	
Thallium	ND	0.721	0.146	0.962	
Vanadium	58.2	0.240	0.136	0.962	
Zinc	80.2	0.962	0.171	0.962	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20172	N/A	Solid	ICP 7300	01/15/15	01/16/15 16:53	150115L02A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.750	0.149	1.00	
Arsenic	ND	0.750	0.259	1.00	
Barium	ND	0.500	0.154	1.00	
Beryllium	ND	0.250	0.137	1.00	
Cadmium	ND	0.500	0.135	1.00	
Chromium	ND	0.250	0.142	1.00	
Cobalt	ND	0.250	0.148	1.00	
Copper	ND	0.500	0.135	1.00	
Lead	ND	0.500	0.132	1.00	
Molybdenum	ND	0.250	0.132	1.00	
Nickel	ND	0.250	0.145	1.00	
Selenium	ND	0.750	0.300	1.00	
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	ND	0.250	0.141	1.00	
Zinc	ND	1.00	0.178	1.00	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B102-2.5	15-01-0764-1-A	01/14/15 10:20	Solid	Mercury 05	01/15/15	01/15/15 14:58	150115L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0199	0.0847	0.00597	1.00	J

B102-5.0	15-01-0764-2-A	01/14/15 10:52	Solid	Mercury 05	01/15/15	01/15/15 15:01	150115L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0220	0.0794	0.00559	1.00	J

B103-2.5	15-01-0764-3-A	01/14/15 13:55	Solid	Mercury 05	01/15/15	01/15/15 15:03	150115L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0186	0.0847	0.00597	1.00	J

B103-5.0	15-01-0764-4-A	01/14/15 14:15	Solid	Mercury 05	01/15/15	01/15/15 15:10	150115L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0267	0.0833	0.00587	1.00	J

Method Blank	099-16-272-883	N/A	Solid	Mercury 05	01/15/15	01/15/15 14:43	150115L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B102-2.5	15-01-0764-1-D	01/14/15 10:20	Solid	GC/MS O	01/14/15	01/15/15 19:55	150115L043

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.8	44	5.5	1.00	J
Benzene	ND	0.89	0.12	1.00	
Bromobenzene	ND	0.89	0.19	1.00	
Bromochloromethane	ND	1.8	0.61	1.00	
Bromodichloromethane	ND	0.89	0.21	1.00	
Bromoform	ND	4.4	0.71	1.00	
Bromomethane	ND	18	8.4	1.00	
2-Butanone	ND	18	3.3	1.00	
n-Butylbenzene	ND	0.89	0.14	1.00	
sec-Butylbenzene	ND	0.89	0.51	1.00	
tert-Butylbenzene	ND	0.89	0.13	1.00	
Carbon Disulfide	ND	8.9	0.27	1.00	
Carbon Tetrachloride	ND	0.89	0.25	1.00	
Chlorobenzene	ND	0.89	0.20	1.00	
Chloroethane	ND	1.8	1.3	1.00	
Chloroform	ND	0.89	0.21	1.00	
Chloromethane	ND	18	0.27	1.00	
2-Chlorotoluene	ND	0.89	0.21	1.00	
4-Chlorotoluene	ND	0.89	0.19	1.00	
Dibromochloromethane	ND	1.8	0.51	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.4	1.5	1.00	
1,2-Dibromoethane	ND	0.89	0.23	1.00	
Dibromomethane	ND	0.89	0.69	1.00	
1,2-Dichlorobenzene	ND	0.89	0.20	1.00	
1,3-Dichlorobenzene	ND	0.89	0.16	1.00	
1,4-Dichlorobenzene	ND	0.89	0.20	1.00	
Dichlorodifluoromethane	ND	1.8	0.39	1.00	
1,1-Dichloroethane	ND	0.89	0.19	1.00	
1,2-Dichloroethane	ND	0.89	0.28	1.00	
1,1-Dichloroethene	ND	0.89	0.31	1.00	
c-1,2-Dichloroethene	ND	0.89	0.25	1.00	
t-1,2-Dichloroethene	ND	0.89	0.45	1.00	
1,2-Dichloropropane	ND	0.89	0.39	1.00	
1,3-Dichloropropane	ND	0.89	0.22	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.4	0.29	1.00	
1,1-Dichloropropene	ND	1.8	0.29	1.00	
c-1,3-Dichloropropene	ND	0.89	0.23	1.00	
t-1,3-Dichloropropene	ND	1.8	0.54	1.00	
Ethylbenzene	ND	0.89	0.13	1.00	
2-Hexanone	ND	18	1.6	1.00	
Isopropylbenzene	ND	0.89	0.49	1.00	
p-Isopropyltoluene	ND	0.89	0.56	1.00	
Methylene Chloride	ND	8.9	1.2	1.00	
4-Methyl-2-Pentanone	ND	18	3.8	1.00	
Naphthalene	ND	8.9	0.72	1.00	
n-Propylbenzene	ND	1.8	0.45	1.00	
Styrene	ND	0.89	0.54	1.00	
1,1,1,2-Tetrachloroethane	ND	0.89	0.21	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	0.31	1.00	
Tetrachloroethene	ND	0.89	0.19	1.00	
Toluene	ND	0.89	0.46	1.00	
1,2,3-Trichlorobenzene	ND	1.8	0.81	1.00	
1,2,4-Trichlorobenzene	ND	1.8	0.28	1.00	
1,1,1-Trichloroethane	ND	0.89	0.20	1.00	
1,1,2-Trichloroethane	ND	0.89	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.9	0.31	1.00	
Trichloroethene	ND	1.8	0.27	1.00	
Trichlorofluoromethane	ND	8.9	0.33	1.00	
1,2,3-Trichloropropane	ND	1.8	0.74	1.00	
1,2,4-Trimethylbenzene	ND	1.8	0.52	1.00	
1,3,5-Trimethylbenzene	ND	1.8	0.49	1.00	
Vinyl Acetate	ND	8.9	4.2	1.00	
Vinyl Chloride	ND	0.89	0.45	1.00	
p/m-Xylene	ND	1.8	0.24	1.00	
o-Xylene	ND	0.89	0.49	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	109	79-133	
1,2-Dichloroethane-d4	119	71-155	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B102-5.0	15-01-0764-2-D	01/14/15 10:52	Solid	GC/MS O	01/14/15	01/15/15 20:23	150115L043

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	8.2	39	4.9	1.00	J
Benzene	0.13	0.78	0.10	1.00	J
Bromobenzene	ND	0.78	0.16	1.00	
Bromochloromethane	ND	1.6	0.54	1.00	
Bromodichloromethane	ND	0.78	0.18	1.00	
Bromoform	ND	3.9	0.62	1.00	
Bromomethane	ND	16	7.4	1.00	
2-Butanone	ND	16	2.9	1.00	
n-Butylbenzene	ND	0.78	0.12	1.00	
sec-Butylbenzene	ND	0.78	0.45	1.00	
tert-Butylbenzene	ND	0.78	0.12	1.00	
Carbon Disulfide	ND	7.8	0.24	1.00	
Carbon Tetrachloride	ND	0.78	0.22	1.00	
Chlorobenzene	ND	0.78	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.78	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.78	0.18	1.00	
4-Chlorotoluene	ND	0.78	0.17	1.00	
Dibromochloromethane	ND	1.6	0.45	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.4	1.00	
1,2-Dibromoethane	ND	0.78	0.20	1.00	
Dibromomethane	ND	0.78	0.61	1.00	
1,2-Dichlorobenzene	ND	0.78	0.18	1.00	
1,3-Dichlorobenzene	ND	0.78	0.14	1.00	
1,4-Dichlorobenzene	ND	0.78	0.17	1.00	
Dichlorodifluoromethane	ND	1.6	0.35	1.00	
1,1-Dichloroethane	ND	0.78	0.17	1.00	
1,2-Dichloroethane	ND	0.78	0.25	1.00	
1,1-Dichloroethene	ND	0.78	0.27	1.00	
c-1,2-Dichloroethene	ND	0.78	0.22	1.00	
t-1,2-Dichloroethene	ND	0.78	0.40	1.00	
1,2-Dichloropropane	ND	0.78	0.34	1.00	
1,3-Dichloropropane	ND	0.78	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	3.9	0.26	1.00	
1,1-Dichloropropene	ND	1.6	0.26	1.00	
c-1,3-Dichloropropene	ND	0.78	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.47	1.00	
Ethylbenzene	ND	0.78	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.78	0.43	1.00	
p-Isopropyltoluene	ND	0.78	0.49	1.00	
Methylene Chloride	ND	7.8	1.0	1.00	
4-Methyl-2-Pentanone	ND	16	3.4	1.00	
Naphthalene	ND	7.8	0.64	1.00	
n-Propylbenzene	ND	1.6	0.39	1.00	
Styrene	ND	0.78	0.47	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.27	1.00	
Tetrachloroethene	ND	0.78	0.16	1.00	
Toluene	ND	0.78	0.40	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.71	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.24	1.00	
1,1,1-Trichloroethane	ND	0.78	0.18	1.00	
1,1,2-Trichloroethane	ND	0.78	0.28	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	0.27	1.00	
Trichloroethene	ND	1.6	0.23	1.00	
Trichlorofluoromethane	ND	7.8	0.29	1.00	
1,2,3-Trichloropropane	ND	1.6	0.65	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.46	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.43	1.00	
Vinyl Acetate	ND	7.8	3.7	1.00	
Vinyl Chloride	ND	0.78	0.39	1.00	
p/m-Xylene	ND	1.6	0.21	1.00	
o-Xylene	ND	0.78	0.43	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.23	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	106	79-133	
1,2-Dichloroethane-d4	116	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B103-2.5	15-01-0764-3-D	01/14/15 13:55	Solid	GC/MS O	01/14/15	01/15/15 20:51	150115L043

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	27	43	5.4	1.00	J
Benzene	ND	0.87	0.11	1.00	
Bromobenzene	ND	0.87	0.18	1.00	
Bromochloromethane	ND	1.7	0.60	1.00	
Bromodichloromethane	ND	0.87	0.20	1.00	
Bromoform	ND	4.3	0.69	1.00	
Bromomethane	ND	17	8.2	1.00	
2-Butanone	ND	17	3.3	1.00	
n-Butylbenzene	ND	0.87	0.14	1.00	
sec-Butylbenzene	ND	0.87	0.50	1.00	
tert-Butylbenzene	ND	0.87	0.13	1.00	
Carbon Disulfide	ND	8.7	0.26	1.00	
Carbon Tetrachloride	ND	0.87	0.24	1.00	
Chlorobenzene	ND	0.87	0.19	1.00	
Chloroethane	ND	1.7	1.3	1.00	
Chloroform	ND	0.87	0.21	1.00	
Chloromethane	ND	17	0.26	1.00	
2-Chlorotoluene	ND	0.87	0.20	1.00	
4-Chlorotoluene	ND	0.87	0.18	1.00	
Dibromochloromethane	ND	1.7	0.49	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.3	1.5	1.00	
1,2-Dibromoethane	ND	0.87	0.22	1.00	
Dibromomethane	ND	0.87	0.67	1.00	
1,2-Dichlorobenzene	ND	0.87	0.20	1.00	
1,3-Dichlorobenzene	ND	0.87	0.15	1.00	
1,4-Dichlorobenzene	ND	0.87	0.19	1.00	
Dichlorodifluoromethane	ND	1.7	0.38	1.00	
1,1-Dichloroethane	ND	0.87	0.18	1.00	
1,2-Dichloroethane	ND	0.87	0.27	1.00	
1,1-Dichloroethene	ND	0.87	0.30	1.00	
c-1,2-Dichloroethene	ND	0.87	0.24	1.00	
t-1,2-Dichloroethene	ND	0.87	0.44	1.00	
1,2-Dichloropropane	ND	0.87	0.38	1.00	
1,3-Dichloropropane	ND	0.87	0.22	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.3	0.29	1.00	
1,1-Dichloropropene	ND	1.7	0.28	1.00	
c-1,3-Dichloropropene	ND	0.87	0.22	1.00	
t-1,3-Dichloropropene	ND	1.7	0.52	1.00	
Ethylbenzene	ND	0.87	0.13	1.00	
2-Hexanone	ND	17	1.5	1.00	
Isopropylbenzene	ND	0.87	0.47	1.00	
p-Isopropyltoluene	ND	0.87	0.54	1.00	
Methylene Chloride	ND	8.7	1.2	1.00	
4-Methyl-2-Pentanone	ND	17	3.7	1.00	
Naphthalene	ND	8.7	0.70	1.00	
n-Propylbenzene	ND	1.7	0.43	1.00	
Styrene	ND	0.87	0.52	1.00	
1,1,1,2-Tetrachloroethane	ND	0.87	0.21	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	0.30	1.00	
Tetrachloroethene	ND	0.87	0.18	1.00	
Toluene	ND	0.87	0.45	1.00	
1,2,3-Trichlorobenzene	ND	1.7	0.79	1.00	
1,2,4-Trichlorobenzene	ND	1.7	0.27	1.00	
1,1,1-Trichloroethane	ND	0.87	0.19	1.00	
1,1,2-Trichloroethane	ND	0.87	0.31	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.7	0.30	1.00	
Trichloroethene	ND	1.7	0.26	1.00	
Trichlorofluoromethane	ND	8.7	0.32	1.00	
1,2,3-Trichloropropane	ND	1.7	0.72	1.00	
1,2,4-Trimethylbenzene	ND	1.7	0.51	1.00	
1,3,5-Trimethylbenzene	ND	1.7	0.47	1.00	
Vinyl Acetate	ND	8.7	4.1	1.00	
Vinyl Chloride	ND	0.87	0.44	1.00	
p/m-Xylene	ND	1.7	0.23	1.00	
o-Xylene	ND	0.87	0.48	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.26	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	120	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/14/15
 Work Order: 15-01-0764
 Preparation: EPA 5035
 Method: EPA 8260B
 Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B103-5.0	15-01-0764-4-D	01/14/15 14:15	Solid	GC/MS O	01/14/15	01/15/15 21:19	150115L043

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	18	38	4.7	1.00	J
Benzene	ND	0.75	0.098	1.00	
Bromobenzene	ND	0.75	0.16	1.00	
Bromochloromethane	ND	1.5	0.52	1.00	
Bromodichloromethane	ND	0.75	0.18	1.00	
Bromoform	ND	3.8	0.60	1.00	
Bromomethane	ND	15	7.1	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.75	0.12	1.00	
sec-Butylbenzene	ND	0.75	0.44	1.00	
tert-Butylbenzene	ND	0.75	0.11	1.00	
Carbon Disulfide	ND	7.5	0.23	1.00	
Carbon Tetrachloride	ND	0.75	0.21	1.00	
Chlorobenzene	ND	0.75	0.17	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.75	0.18	1.00	
Chloromethane	ND	15	0.23	1.00	
2-Chlorotoluene	ND	0.75	0.17	1.00	
4-Chlorotoluene	ND	0.75	0.16	1.00	
Dibromochloromethane	ND	1.5	0.43	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.3	1.00	
1,2-Dibromoethane	ND	0.75	0.19	1.00	
Dibromomethane	ND	0.75	0.58	1.00	
1,2-Dichlorobenzene	ND	0.75	0.17	1.00	
1,3-Dichlorobenzene	ND	0.75	0.13	1.00	
1,4-Dichlorobenzene	ND	0.75	0.17	1.00	
Dichlorodifluoromethane	ND	1.5	0.33	1.00	
1,1-Dichloroethane	ND	0.75	0.16	1.00	
1,2-Dichloroethane	ND	0.75	0.24	1.00	
1,1-Dichloroethene	ND	0.75	0.26	1.00	
c-1,2-Dichloroethene	ND	0.75	0.21	1.00	
t-1,2-Dichloroethene	ND	0.75	0.38	1.00	
1,2-Dichloropropane	ND	0.75	0.33	1.00	
1,3-Dichloropropane	ND	0.75	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3.8	0.25	1.00	
1,1-Dichloropropene	ND	1.5	0.25	1.00	
c-1,3-Dichloropropene	ND	0.75	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.46	1.00	
Ethylbenzene	ND	0.75	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.75	0.41	1.00	
p-Isopropyltoluene	ND	0.75	0.47	1.00	
Methylene Chloride	ND	7.5	1.0	1.00	
4-Methyl-2-Pentanone	ND	15	3.3	1.00	
Naphthalene	ND	7.5	0.61	1.00	
n-Propylbenzene	ND	1.5	0.38	1.00	
Styrene	ND	0.75	0.46	1.00	
1,1,1,2-Tetrachloroethane	ND	0.75	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.26	1.00	
Tetrachloroethene	ND	0.75	0.16	1.00	
Toluene	ND	0.75	0.39	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.69	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.75	0.17	1.00	
1,1,2-Trichloroethane	ND	0.75	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	0.27	1.00	
Trichloroethene	ND	1.5	0.23	1.00	
Trichlorofluoromethane	ND	7.5	0.28	1.00	
1,2,3-Trichloropropane	ND	1.5	0.63	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.44	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.41	1.00	
Vinyl Acetate	ND	7.5	3.6	1.00	
Vinyl Chloride	ND	0.75	0.38	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.75	0.42	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	121	71-155	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-025-25942	N/A	Solid	GC/MS O	01/15/15	01/15/15 17:35	150115L043

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	106	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 3050B
Method: EPA 6010B

Project: Maguire - Woods

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0795-1	Sample	Solid	ICP 7300	01/15/15	01/15/15 19:38	150115S02
15-01-0795-1	Matrix Spike	Solid	ICP 7300	01/15/15	01/15/15 19:39	150115S02
15-01-0795-1	Matrix Spike Duplicate	Solid	ICP 7300	01/15/15	01/15/15 19:40	150115S02

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	6.569	26	6.395	26	50-115	3	0-20	3
Arsenic	7.584	25.00	33.50	104	33.29	103	75-125	1	0-20	
Barium	118.5	25.00	139.1	4X	142.0	4X	75-125	4X	0-20	Q
Beryllium	0.3598	25.00	28.13	111	28.34	112	75-125	1	0-20	
Cadmium	ND	25.00	27.48	110	27.40	110	75-125	0	0-20	
Chromium	16.27	25.00	45.67	118	44.64	113	75-125	2	0-20	
Cobalt	11.87	25.00	41.00	117	40.58	115	75-125	1	0-20	
Copper	21.35	25.00	48.36	108	47.55	105	75-125	2	0-20	
Lead	19.01	25.00	49.57	122	51.02	128	75-125	3	0-20	3
Molybdenum	ND	25.00	26.08	104	25.85	103	75-125	1	0-20	
Nickel	14.15	25.00	42.33	113	41.60	110	75-125	2	0-20	
Selenium	ND	25.00	23.91	96	23.50	94	75-125	2	0-20	
Silver	ND	12.50	10.26	82	11.59	93	75-125	12	0-20	
Thallium	ND	25.00	7.466	30	7.260	29	75-125	3	0-20	3
Vanadium	34.37	25.00	60.47	104	59.97	102	75-125	1	0-20	
Zinc	62.01	25.00	87.93	104	87.64	103	75-125	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15

Work Order: 15-01-0764

Preparation: EPA 7471A Total

Method: EPA 7471A

Project: Maguire - Woods

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0757-1	Sample	Solid	Mercury 05	01/15/15	01/15/15 14:47	150115S01
15-01-0757-1	Matrix Spike	Solid	Mercury 05	01/15/15	01/15/15 14:49	150115S01
15-01-0757-1	Matrix Spike Duplicate	Solid	Mercury 05	01/15/15	01/15/15 14:52	150115S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.9837	118	0.9552	114	71-137	3	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 3050B
Method: EPA 6010B

Project: Maguire - Woods

Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-20172	LCS	Solid	ICP 7300	01/15/15	01/15/15 18:21	150115L02A
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.05	92	80-120	73-127	
Arsenic	25.00	25.08	100	80-120	73-127	
Barium	25.00	24.12	96	80-120	73-127	
Beryllium	25.00	23.06	92	80-120	73-127	
Cadmium	25.00	25.17	101	80-120	73-127	
Chromium	25.00	24.37	97	80-120	73-127	
Cobalt	25.00	24.35	97	80-120	73-127	
Copper	25.00	24.31	97	80-120	73-127	
Lead	25.00	25.04	100	80-120	73-127	
Molybdenum	25.00	23.34	93	80-120	73-127	
Nickel	25.00	24.12	96	80-120	73-127	
Selenium	25.00	22.11	88	80-120	73-127	
Silver	12.50	11.06	88	80-120	73-127	
Thallium	25.00	24.11	96	80-120	73-127	
Vanadium	25.00	23.79	95	80-120	73-127	
Zinc	25.00	23.96	96	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



Return to Contents

Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 7471A Total
Method: EPA 7471A

Project: Maguire - Woods

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-883	LCS	Solid	Mercury 05	01/15/15	01/15/15 14:45	150115L01

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury	0.8350	0.9828	118	85-121	



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Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/14/15
Work Order: 15-01-0764
Preparation: EPA 5035
Method: EPA 8260B

Project: Maguire - Woods

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Quality Control Sample ID	Type	Matrix		Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
095-01-025-25942	LCS	Solid		GC/MS O	01/15/15	01/15/15 14:47	150115L043			
095-01-025-25942	LCSD	Solid		GC/MS O	01/15/15	01/15/15 15:15	150115L043			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	47.63	95	48.46	97	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	50.87	102	50.54	101	65-137	53-149	1	0-20	
Chlorobenzene	50.00	50.01	100	48.86	98	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	50.40	101	49.28	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	48.83	98	49.15	98	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	49.93	100	50.34	101	80-120	73-127	1	0-20	
1,1-Dichloroethene	50.00	46.96	94	48.71	97	68-128	58-138	4	0-20	
Ethylbenzene	50.00	50.39	101	50.23	100	80-120	73-127	0	0-20	
Toluene	50.00	49.30	99	50.36	101	80-120	73-127	2	0-20	
Trichloroethene	50.00	48.97	98	48.79	98	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	58.26	117	61.74	123	67-127	57-137	6	0-20	
p/m-Xylene	100.0	103.2	103	101.9	102	75-125	67-133	1	0-25	
o-Xylene	50.00	51.61	103	50.84	102	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	49.87	100	47.39	95	70-124	61-133	5	0-20	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Sample Analysis Summary Report

Work Order: 15-01-0764

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	771	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8260B	EPA 5035	867	GC/MS O	2


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 15-01-0764

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Calscience

WORK ORDER #: 15-01-0764

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ALTA ENVIRONMENTAL

DATE: 01/14/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.9 °C + 0.2 °C (CF) = 3.1 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: S23

CUSTODY SEALS INTACT:

☐ Cooler ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: S23

☐ Sample ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☒ Sleeve (P) ☐ EnCores® ☒ TerraCores® ☒ 20z PJ

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna₂ ☐ 1AGBs

☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 1PBna ☐ 500PB

☐ 250PB ☐ 250PBn ☐ 125PB ☐ 125PBz₂na ☐ 100PJ ☐ 100PJna₂ ☐ ☐ ☐

Air: ☐ Tedlar® ☐ Canister Other: ☐ Trip Blank Lot#: Labeled/Checked by: 681

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: S23

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered Scanned by: S23



Supplemental Report 1

The original report has been revised/corrected.

**WORK ORDER NUMBER: 15-01-0875***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** Alta Environmental**Client Project Name:** Maguire - Woods**Attention:** Steve Ridenour
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

A handwritten signature in black ink that reads "Vikas Patel".

Approved for release on 02/03/2015 by:
Vikas Patel
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 15-01-0875

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Work Order Narrative

Work Order: 15-01-0875Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/15/15. They were assigned to Work Order 15-01-0875.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-01-0875
 Project Name: Maguire - Woods
 Received: 01/15/15

Attn: Steve Ridenour

Page 1 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B104-2.5 (15-01-0875-1)						
Arsenic	25.9		0.750	mg/kg	EPA 6010B	EPA 3050B
Barium	144		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.763		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.867		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	49.0		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	23.3		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	38.1	B	0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	5.74		0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.64		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	49.7		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	76.6		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	98.0	B	1.00	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0269	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
Benzene	0.11	J	0.10*	ug/kg	EPA 8260B	EPA 5035
Carbon Disulfide	0.78	J	0.24*	ug/kg	EPA 8260B	EPA 5035
B104-5.0 (15-01-0875-2)						
Arsenic	11.0		0.754	mg/kg	EPA 6010B	EPA 3050B
Barium	118		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.539		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.304	J	0.136*	mg/kg	EPA 6010B	EPA 3050B
Chromium	34.9		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	26.0	B	0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	3.89		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.863		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.8		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	52.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	69.0	B	1.01	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0207	J	0.00597*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	12	J	5.1*	ug/kg	EPA 8260B	EPA 5035

* MDL is shown

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-01-0875
 Project Name: Maguire - Woods
 Received: 01/15/15

Attn: Steve Ridenour

Page 2 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B104-10 (15-01-0875-3)						
Arsenic	12.4		0.754	mg/kg	EPA 6010B	EPA 3050B
Barium	99.1		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.504		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.469	J	0.136*	mg/kg	EPA 6010B	EPA 3050B
Chromium	33.3		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	10.0		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	24.3	B	0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	3.85		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.832		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	29.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	52.8		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	64.8	B	1.01	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0233	J	0.00597*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	7.5	J	3.6*	ug/kg	EPA 8260B	EPA 5035
Tetrachloroethene	0.18	J	0.12*	ug/kg	EPA 8260B	EPA 5035
B105-2.5 (15-01-0875-4)						
Arsenic	9.84		0.739	mg/kg	EPA 6010B	EPA 3050B
Barium	157		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.784		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.525		0.493	mg/kg	EPA 6010B	EPA 3050B
Chromium	48.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.7		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	37.7	B	0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	6.84		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.976		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	41.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	76.9		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	90.7	B	0.985	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.000240	J	0.0000559*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	7.6	J	4.7*	ug/kg	EPA 8260B	EPA 5035

* MDL is shown

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-01-0875
 Project Name: Maguire - Woods
 Received: 01/15/15

Attn: Steve Ridenour

Page 3 of 4

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B105-5.0 (15-01-0875-5)						
Arsenic	9.11		0.739	mg/kg	EPA 6010B	EPA 3050B
Barium	92.4		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.469		0.246	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.355	J	0.133*	mg/kg	EPA 6010B	EPA 3050B
Chromium	32.4		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	9.37		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	23.1	B	0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	5.11		0.493	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.746		0.246	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.3		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	47.8		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	61.3	B	0.985	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0254	J	0.00587*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	10	J	5.1*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.33	J	0.11*	ug/kg	EPA 8260B	EPA 5035
1,4-Dichlorobenzene	0.21	J	0.18*	ug/kg	EPA 8260B	EPA 5035
B105-10 (15-01-0875-6)						
Arsenic	10.8		0.714	mg/kg	EPA 6010B	EPA 3050B
Barium	128		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.587		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.336	J	0.129*	mg/kg	EPA 6010B	EPA 3050B
Chromium	39.6		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	11.6		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	27.7	B	0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	4.35		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.859		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.2		0.238	mg/kg	EPA 6010B	EPA 3050B
Vanadium	59.0		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	74.6	B	0.952	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0195	J	0.00559*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	13	J	4.8*	ug/kg	EPA 8260B	EPA 5035

* MDL is shown

Detections Summary

Client: Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Work Order: 15-01-0875
Project Name: Maguire - Woods
Received: 01/15/15

Attn: Steve Ridenour

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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B105-5.0-DUP (15-01-0875-7)						
Arsenic	14.3		0.728	mg/kg	EPA 6010B	EPA 3050B
Barium	139		0.485	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.729		0.243	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.320	J	0.131*	mg/kg	EPA 6010B	EPA 3050B
Chromium	44.7		0.243	mg/kg	EPA 6010B	EPA 3050B
Cobalt	13.2		0.243	mg/kg	EPA 6010B	EPA 3050B
Copper	33.0	B	0.485	mg/kg	EPA 6010B	EPA 3050B
Lead	4.57		0.485	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.36		0.243	mg/kg	EPA 6010B	EPA 3050B
Nickel	37.3		0.243	mg/kg	EPA 6010B	EPA 3050B
Vanadium	66.8		0.243	mg/kg	EPA 6010B	EPA 3050B
Zinc	82.4	B	0.971	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0251	J	0.00568*	mg/kg	EPA 7471A	EPA 7471A Total
Acetone	13	J	4.7*	ug/kg	EPA 8260B	EPA 5035
Benzene	0.21	J	0.098*	ug/kg	EPA 8260B	EPA 5035
Chlorobenzene	0.21	J	0.17*	ug/kg	EPA 8260B	EPA 5035

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/15/15
 Work Order: 15-01-0875
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-2.5	15-01-0875-1-A	01/15/15 13:30	Solid	ICP 7300	01/16/15	01/19/15 21:19	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.750	0.149	1.00	
Arsenic	25.9	0.750	0.259	1.00	
Barium	144	0.500	0.154	1.00	
Beryllium	0.763	0.250	0.137	1.00	
Cadmium	0.867	0.500	0.135	1.00	
Chromium	49.0	0.250	0.142	1.00	
Cobalt	23.3	0.250	0.148	1.00	
Copper	38.1	0.500	0.135	1.00	B
Lead	5.74	0.500	0.132	1.00	
Molybdenum	2.64	0.250	0.132	1.00	
Nickel	49.7	0.250	0.145	1.00	
Selenium	ND	0.750	0.300	1.00	
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	76.6	0.250	0.141	1.00	
Zinc	98.0	1.00	0.178	1.00	B



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-5.0	15-01-0875-2-A	01/15/15 13:35	Solid	ICP 7300	01/16/15	01/19/15 21:22	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.754	0.150	1.01	
Arsenic	11.0	0.754	0.260	1.01	
Barium	118	0.503	0.155	1.01	
Beryllium	0.539	0.251	0.138	1.01	
Cadmium	0.304	0.503	0.136	1.01	J
Chromium	34.9	0.251	0.143	1.01	
Cobalt	10.5	0.251	0.149	1.01	
Copper	26.0	0.503	0.135	1.01	B
Lead	3.89	0.503	0.132	1.01	
Molybdenum	0.863	0.251	0.133	1.01	
Nickel	29.8	0.251	0.145	1.01	
Selenium	ND	0.754	0.301	1.01	
Silver	ND	0.251	0.0861	1.01	
Thallium	ND	0.754	0.152	1.01	
Vanadium	52.3	0.251	0.142	1.01	
Zinc	69.0	1.01	0.178	1.01	B



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-10	15-01-0875-3-A	01/15/15 14:00	Solid	ICP 7300	01/16/15	01/19/15 21:24	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.754	0.150	1.01	
Arsenic	12.4	0.754	0.260	1.01	
Barium	99.1	0.503	0.155	1.01	
Beryllium	0.504	0.251	0.138	1.01	
Cadmium	0.469	0.503	0.136	1.01	J
Chromium	33.3	0.251	0.143	1.01	
Cobalt	10.0	0.251	0.149	1.01	
Copper	24.3	0.503	0.135	1.01	B
Lead	3.85	0.503	0.132	1.01	
Molybdenum	0.832	0.251	0.133	1.01	
Nickel	29.7	0.251	0.145	1.01	
Selenium	ND	0.754	0.301	1.01	
Silver	ND	0.251	0.0861	1.01	
Thallium	ND	0.754	0.152	1.01	
Vanadium	52.8	0.251	0.142	1.01	
Zinc	64.8	1.01	0.178	1.01	B



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-2.5	15-01-0875-4-A	01/15/15 10:35	Solid	ICP 7300	01/16/15	01/19/15 21:26	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.739	0.147	0.985	
Arsenic	9.84	0.739	0.255	0.985	
Barium	157	0.493	0.152	0.985	
Beryllium	0.784	0.246	0.135	0.985	
Cadmium	0.525	0.493	0.133	0.985	
Chromium	48.8	0.246	0.140	0.985	
Cobalt	12.7	0.246	0.146	0.985	
Copper	37.7	0.493	0.133	0.985	B
Lead	6.84	0.493	0.130	0.985	
Molybdenum	0.976	0.246	0.130	0.985	
Nickel	41.3	0.246	0.143	0.985	
Selenium	ND	0.739	0.295	0.985	
Silver	ND	0.246	0.0844	0.985	
Thallium	ND	0.739	0.149	0.985	
Vanadium	76.9	0.246	0.139	0.985	
Zinc	90.7	0.985	0.175	0.985	B



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-5.0	15-01-0875-5-A	01/15/15 10:40	Solid	ICP 7300	01/16/15	01/19/15 21:28	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.739	0.147	0.985	
Arsenic	9.11	0.739	0.255	0.985	
Barium	92.4	0.493	0.152	0.985	
Beryllium	0.469	0.246	0.135	0.985	
Cadmium	0.355	0.493	0.133	0.985	J
Chromium	32.4	0.246	0.140	0.985	
Cobalt	9.37	0.246	0.146	0.985	
Copper	23.1	0.493	0.133	0.985	B
Lead	5.11	0.493	0.130	0.985	
Molybdenum	0.746	0.246	0.130	0.985	
Nickel	26.3	0.246	0.143	0.985	
Selenium	ND	0.739	0.295	0.985	
Silver	ND	0.246	0.0844	0.985	
Thallium	ND	0.739	0.149	0.985	
Vanadium	47.8	0.246	0.139	0.985	
Zinc	61.3	0.985	0.175	0.985	B



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-10	15-01-0875-6-A	01/15/15 11:15	Solid	ICP 7300	01/16/15	01/19/15 21:31	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.714	0.142	0.952	
Arsenic	10.8	0.714	0.247	0.952	
Barium	128	0.476	0.147	0.952	
Beryllium	0.587	0.238	0.130	0.952	
Cadmium	0.336	0.476	0.129	0.952	J
Chromium	39.6	0.238	0.136	0.952	
Cobalt	11.6	0.238	0.141	0.952	
Copper	27.7	0.476	0.128	0.952	B
Lead	4.35	0.476	0.125	0.952	
Molybdenum	0.859	0.238	0.126	0.952	
Nickel	32.2	0.238	0.138	0.952	
Selenium	ND	0.714	0.285	0.952	
Silver	ND	0.238	0.0816	0.952	
Thallium	ND	0.714	0.144	0.952	
Vanadium	59.0	0.238	0.135	0.952	
Zinc	74.6	0.952	0.169	0.952	B



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/15/15
 Work Order: 15-01-0875
 Preparation: EPA 3050B
 Method: EPA 6010B
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-5.0-DUP	15-01-0875-7-A	01/15/15 10:40	Solid	ICP 7300	01/16/15	01/20/15 13:10	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.728	0.145	0.971	
Arsenic	14.3	0.728	0.252	0.971	
Barium	139	0.485	0.150	0.971	
Beryllium	0.729	0.243	0.133	0.971	
Cadmium	0.320	0.485	0.131	0.971	J
Chromium	44.7	0.243	0.138	0.971	
Cobalt	13.2	0.243	0.144	0.971	
Copper	33.0	0.485	0.131	0.971	B
Lead	4.57	0.485	0.128	0.971	
Molybdenum	1.36	0.243	0.128	0.971	
Nickel	37.3	0.243	0.141	0.971	
Selenium	ND	0.728	0.291	0.971	
Silver	ND	0.243	0.0832	0.971	
Thallium	ND	0.728	0.147	0.971	
Vanadium	66.8	0.243	0.137	0.971	
Zinc	82.4	0.971	0.172	0.971	B


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-20171	N/A	Solid	ICP 7300	01/16/15	01/16/15 16:57	150116L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.750	0.149	1.00	
Arsenic	ND	0.750	0.259	1.00	
Barium	ND	0.500	0.154	1.00	
Beryllium	ND	0.250	0.137	1.00	
Cadmium	ND	0.500	0.135	1.00	
Chromium	ND	0.250	0.142	1.00	
Cobalt	ND	0.250	0.148	1.00	
Copper	0.155	0.500	0.135	1.00	J
Lead	ND	0.500	0.132	1.00	
Molybdenum	ND	0.250	0.132	1.00	
Nickel	ND	0.250	0.145	1.00	
Selenium	0.571	0.750	0.300	1.00	J
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	ND	0.250	0.141	1.00	
Zinc	0.783	1.00	0.178	1.00	J



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-2.5	15-01-0875-1-A	01/15/15 13:30	Solid	Mercury 05	01/19/15	01/19/15 13:44	150119L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0269	0.0833	0.00587	1.00	J

B104-5.0	15-01-0875-2-A	01/15/15 13:35	Solid	Mercury 05	01/19/15	01/19/15 13:51	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0207	0.0847	0.00597	1.00	J

B104-10	15-01-0875-3-A	01/15/15 14:00	Solid	Mercury 05	01/19/15	01/19/15 13:53	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0233	0.0847	0.00597	1.00	J

B105-2.5	15-01-0875-4-A	01/15/15 10:35	Solid	Mercury 05	01/19/15	01/19/15 13:55	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.000240	0.000794	0.0000559	1.00	J

B105-5.0	15-01-0875-5-A	01/15/15 10:40	Solid	Mercury 05	01/19/15	01/19/15 13:58	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0254	0.0833	0.00587	1.00	J

B105-10	15-01-0875-6-A	01/15/15 11:15	Solid	Mercury 05	01/19/15	01/19/15 14:00	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0195	0.0794	0.00559	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/15/15
 Work Order: 15-01-0875
 Preparation: EPA 7471A Total
 Method: EPA 7471A
 Units: mg/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-5.0-DUP	15-01-0875-7-A	01/15/15 10:40	Solid	Mercury 05	01/19/15	01/19/15 14:07	150119L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	0.0251	0.0806	0.00568	1.00	J

Method Blank	099-16-272-887	N/A	Solid	Mercury 05	01/19/15	01/19/15 13:40	150119L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.0833	0.00587	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-2.5	15-01-0875-1-D	01/15/15 13:30	Solid	GC/MS BB	01/15/15	01/16/15 16:41	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	40	5.0	1.00	
Benzene	0.11	0.80	0.10	1.00	J
Bromobenzene	ND	0.80	0.17	1.00	
Bromochloromethane	ND	1.6	0.55	1.00	
Bromodichloromethane	ND	0.80	0.19	1.00	
Bromoform	ND	4.0	0.64	1.00	
Bromomethane	ND	16	7.6	1.00	
2-Butanone	ND	16	3.0	1.00	
n-Butylbenzene	ND	0.80	0.13	1.00	
sec-Butylbenzene	ND	0.80	0.46	1.00	
tert-Butylbenzene	ND	0.80	0.12	1.00	
Carbon Disulfide	0.78	8.0	0.24	1.00	J
Carbon Tetrachloride	ND	0.80	0.23	1.00	
Chlorobenzene	ND	0.80	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.80	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.80	0.19	1.00	
4-Chlorotoluene	ND	0.80	0.17	1.00	
Dibromochloromethane	ND	1.6	0.46	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.4	1.00	
1,2-Dibromoethane	ND	0.80	0.20	1.00	
Dibromomethane	ND	0.80	0.62	1.00	
1,2-Dichlorobenzene	ND	0.80	0.18	1.00	
1,3-Dichlorobenzene	ND	0.80	0.14	1.00	
1,4-Dichlorobenzene	ND	0.80	0.18	1.00	
Dichlorodifluoromethane	ND	1.6	0.36	1.00	
1,1-Dichloroethane	ND	0.80	0.17	1.00	
1,2-Dichloroethane	ND	0.80	0.25	1.00	
1,1-Dichloroethene	ND	0.80	0.28	1.00	
c-1,2-Dichloroethene	ND	0.80	0.22	1.00	
t-1,2-Dichloroethene	ND	0.80	0.41	1.00	
1,2-Dichloropropane	ND	0.80	0.35	1.00	
1,3-Dichloropropane	ND	0.80	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	4.0	0.27	1.00	
1,1-Dichloropropene	ND	1.6	0.26	1.00	
c-1,3-Dichloropropene	ND	0.80	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.49	1.00	
Ethylbenzene	ND	0.80	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.80	0.44	1.00	
p-Isopropyltoluene	ND	0.80	0.50	1.00	
Methylene Chloride	ND	8.0	1.1	1.00	
4-Methyl-2-Pentanone	ND	16	3.5	1.00	
Naphthalene	ND	8.0	0.65	1.00	
n-Propylbenzene	ND	1.6	0.40	1.00	
Styrene	ND	0.80	0.48	1.00	
1,1,1,2-Tetrachloroethane	ND	0.80	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.28	1.00	
Tetrachloroethene	ND	0.80	0.17	1.00	
Toluene	ND	0.80	0.41	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.73	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.25	1.00	
1,1,1-Trichloroethane	ND	0.80	0.18	1.00	
1,1,2-Trichloroethane	ND	0.80	0.28	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	0.28	1.00	
Trichloroethene	ND	1.6	0.24	1.00	
Trichlorofluoromethane	ND	8.0	0.30	1.00	
1,2,3-Trichloropropane	ND	1.6	0.67	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.47	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.44	1.00	
Vinyl Acetate	ND	8.0	3.8	1.00	
Vinyl Chloride	ND	0.80	0.40	1.00	
p/m-Xylene	ND	1.6	0.21	1.00	
o-Xylene	ND	0.80	0.45	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.24	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	95	71-155	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-5.0	15-01-0875-2-D	01/15/15 13:35	Solid	GC/MS BB	01/15/15	01/16/15 17:08	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	12	41	5.1	1.00	J
Benzene	ND	0.83	0.11	1.00	
Bromobenzene	ND	0.83	0.17	1.00	
Bromochloromethane	ND	1.7	0.57	1.00	
Bromodichloromethane	ND	0.83	0.19	1.00	
Bromoform	ND	4.1	0.66	1.00	
Bromomethane	ND	17	7.8	1.00	
2-Butanone	ND	17	3.1	1.00	
n-Butylbenzene	ND	0.83	0.13	1.00	
sec-Butylbenzene	ND	0.83	0.48	1.00	
tert-Butylbenzene	ND	0.83	0.12	1.00	
Carbon Disulfide	ND	8.3	0.25	1.00	
Carbon Tetrachloride	ND	0.83	0.23	1.00	
Chlorobenzene	ND	0.83	0.18	1.00	
Chloroethane	ND	1.7	1.2	1.00	
Chloroform	ND	0.83	0.20	1.00	
Chloromethane	ND	17	0.25	1.00	
2-Chlorotoluene	ND	0.83	0.19	1.00	
4-Chlorotoluene	ND	0.83	0.18	1.00	
Dibromochloromethane	ND	1.7	0.47	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.1	1.4	1.00	
1,2-Dibromoethane	ND	0.83	0.21	1.00	
Dibromomethane	ND	0.83	0.64	1.00	
1,2-Dichlorobenzene	ND	0.83	0.19	1.00	
1,3-Dichlorobenzene	ND	0.83	0.15	1.00	
1,4-Dichlorobenzene	ND	0.83	0.18	1.00	
Dichlorodifluoromethane	ND	1.7	0.37	1.00	
1,1-Dichloroethane	ND	0.83	0.17	1.00	
1,2-Dichloroethane	ND	0.83	0.26	1.00	
1,1-Dichloroethene	ND	0.83	0.29	1.00	
c-1,2-Dichloroethene	ND	0.83	0.23	1.00	
t-1,2-Dichloroethene	ND	0.83	0.42	1.00	
1,2-Dichloropropane	ND	0.83	0.36	1.00	
1,3-Dichloropropane	ND	0.83	0.21	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.1	0.27	1.00	
1,1-Dichloropropene	ND	1.7	0.27	1.00	
c-1,3-Dichloropropene	ND	0.83	0.21	1.00	
t-1,3-Dichloropropene	ND	1.7	0.50	1.00	
Ethylbenzene	ND	0.83	0.13	1.00	
2-Hexanone	ND	17	1.5	1.00	
Isopropylbenzene	ND	0.83	0.45	1.00	
p-Isopropyltoluene	ND	0.83	0.52	1.00	
Methylene Chloride	ND	8.3	1.1	1.00	
4-Methyl-2-Pentanone	ND	17	3.6	1.00	
Naphthalene	ND	8.3	0.67	1.00	
n-Propylbenzene	ND	1.7	0.41	1.00	
Styrene	ND	0.83	0.50	1.00	
1,1,1,2-Tetrachloroethane	ND	0.83	0.20	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	0.29	1.00	
Tetrachloroethene	ND	0.83	0.17	1.00	
Toluene	ND	0.83	0.43	1.00	
1,2,3-Trichlorobenzene	ND	1.7	0.75	1.00	
1,2,4-Trichlorobenzene	ND	1.7	0.26	1.00	
1,1,1-Trichloroethane	ND	0.83	0.19	1.00	
1,1,2-Trichloroethane	ND	0.83	0.29	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	0.29	1.00	
Trichloroethene	ND	1.7	0.25	1.00	
Trichlorofluoromethane	ND	8.3	0.31	1.00	
1,2,3-Trichloropropane	ND	1.7	0.69	1.00	
1,2,4-Trimethylbenzene	ND	1.7	0.48	1.00	
1,3,5-Trimethylbenzene	ND	1.7	0.45	1.00	
Vinyl Acetate	ND	8.3	3.9	1.00	
Vinyl Chloride	ND	0.83	0.42	1.00	
p/m-Xylene	ND	1.7	0.22	1.00	
o-Xylene	ND	0.83	0.46	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	0.24	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	86	80-120	
Dibromofluoromethane	93	79-133	
1,2-Dichloroethane-d4	91	71-155	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B104-10	15-01-0875-3-D	01/15/15 14:00	Solid	GC/MS BB	01/15/15	01/16/15 18:02	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.5	29	3.6	1.00	J
Benzene	ND	0.58	0.076	1.00	
Bromobenzene	ND	0.58	0.12	1.00	
Bromochloromethane	ND	1.2	0.40	1.00	
Bromodichloromethane	ND	0.58	0.14	1.00	
Bromoform	ND	2.9	0.46	1.00	
Bromomethane	ND	12	5.5	1.00	
2-Butanone	ND	12	2.2	1.00	
n-Butylbenzene	ND	0.58	0.091	1.00	
sec-Butylbenzene	ND	0.58	0.34	1.00	
tert-Butylbenzene	ND	0.58	0.088	1.00	
Carbon Disulfide	ND	5.8	0.18	1.00	
Carbon Tetrachloride	ND	0.58	0.16	1.00	
Chlorobenzene	ND	0.58	0.13	1.00	
Chloroethane	ND	1.2	0.87	1.00	
Chloroform	ND	0.58	0.14	1.00	
Chloromethane	ND	12	0.18	1.00	
2-Chlorotoluene	ND	0.58	0.13	1.00	
4-Chlorotoluene	ND	0.58	0.12	1.00	
Dibromochloromethane	ND	1.2	0.33	1.00	
1,2-Dibromo-3-Chloropropane	ND	2.9	1.0	1.00	
1,2-Dibromoethane	ND	0.58	0.15	1.00	
Dibromomethane	ND	0.58	0.45	1.00	
1,2-Dichlorobenzene	ND	0.58	0.13	1.00	
1,3-Dichlorobenzene	ND	0.58	0.10	1.00	
1,4-Dichlorobenzene	ND	0.58	0.13	1.00	
Dichlorodifluoromethane	ND	1.2	0.26	1.00	
1,1-Dichloroethane	ND	0.58	0.12	1.00	
1,2-Dichloroethane	ND	0.58	0.18	1.00	
1,1-Dichloroethene	ND	0.58	0.20	1.00	
c-1,2-Dichloroethene	ND	0.58	0.16	1.00	
t-1,2-Dichloroethene	ND	0.58	0.30	1.00	
1,2-Dichloropropane	ND	0.58	0.26	1.00	
1,3-Dichloropropane	ND	0.58	0.15	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	2.9	0.19	1.00	
1,1-Dichloropropene	ND	1.2	0.19	1.00	
c-1,3-Dichloropropene	ND	0.58	0.15	1.00	
t-1,3-Dichloropropene	ND	1.2	0.35	1.00	
Ethylbenzene	ND	0.58	0.088	1.00	
2-Hexanone	ND	12	1.0	1.00	
Isopropylbenzene	ND	0.58	0.32	1.00	
p-Isopropyltoluene	ND	0.58	0.37	1.00	
Methylene Chloride	ND	5.8	0.78	1.00	
4-Methyl-2-Pentanone	ND	12	2.5	1.00	
Naphthalene	ND	5.8	0.47	1.00	
n-Propylbenzene	ND	1.2	0.29	1.00	
Styrene	ND	0.58	0.35	1.00	
1,1,1,2-Tetrachloroethane	ND	0.58	0.14	1.00	
1,1,2,2-Tetrachloroethane	ND	1.2	0.20	1.00	
Tetrachloroethene	0.18	0.58	0.12	1.00	J
Toluene	ND	0.58	0.30	1.00	
1,2,3-Trichlorobenzene	ND	1.2	0.53	1.00	
1,2,4-Trichlorobenzene	ND	1.2	0.18	1.00	
1,1,1-Trichloroethane	ND	0.58	0.13	1.00	
1,1,2-Trichloroethane	ND	0.58	0.21	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.8	0.21	1.00	
Trichloroethene	ND	1.2	0.18	1.00	
Trichlorofluoromethane	ND	5.8	0.22	1.00	
1,2,3-Trichloropropane	ND	1.2	0.48	1.00	
1,2,4-Trimethylbenzene	ND	1.2	0.34	1.00	
1,3,5-Trimethylbenzene	ND	1.2	0.32	1.00	
Vinyl Acetate	ND	5.8	2.8	1.00	
Vinyl Chloride	ND	0.58	0.29	1.00	
p/m-Xylene	ND	1.2	0.16	1.00	
o-Xylene	ND	0.58	0.32	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.2	0.17	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	96	79-133	
1,2-Dichloroethane-d4	98	71-155	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-2.5	15-01-0875-4-D	01/15/15 10:35	Solid	GC/MS BB	01/15/15	01/16/15 18:29	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	7.6	38	4.7	1.00	J
Benzene	ND	0.76	0.099	1.00	
Bromobenzene	ND	0.76	0.16	1.00	
Bromochloromethane	ND	1.5	0.52	1.00	
Bromodichloromethane	ND	0.76	0.18	1.00	
Bromoform	ND	3.8	0.60	1.00	
Bromomethane	ND	15	7.2	1.00	
2-Butanone	ND	15	2.9	1.00	
n-Butylbenzene	ND	0.76	0.12	1.00	
sec-Butylbenzene	ND	0.76	0.44	1.00	
tert-Butylbenzene	ND	0.76	0.11	1.00	
Carbon Disulfide	ND	7.6	0.23	1.00	
Carbon Tetrachloride	ND	0.76	0.21	1.00	
Chlorobenzene	ND	0.76	0.17	1.00	
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.76	0.18	1.00	
Chloromethane	ND	15	0.23	1.00	
2-Chlorotoluene	ND	0.76	0.18	1.00	
4-Chlorotoluene	ND	0.76	0.16	1.00	
Dibromochloromethane	ND	1.5	0.43	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.3	1.00	
1,2-Dibromoethane	ND	0.76	0.19	1.00	
Dibromomethane	ND	0.76	0.59	1.00	
1,2-Dichlorobenzene	ND	0.76	0.17	1.00	
1,3-Dichlorobenzene	ND	0.76	0.13	1.00	
1,4-Dichlorobenzene	ND	0.76	0.17	1.00	
Dichlorodifluoromethane	ND	1.5	0.34	1.00	
1,1-Dichloroethane	ND	0.76	0.16	1.00	
1,2-Dichloroethane	ND	0.76	0.24	1.00	
1,1-Dichloroethene	ND	0.76	0.26	1.00	
c-1,2-Dichloroethene	ND	0.76	0.21	1.00	
t-1,2-Dichloroethene	ND	0.76	0.38	1.00	
1,2-Dichloropropane	ND	0.76	0.33	1.00	
1,3-Dichloropropane	ND	0.76	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3.8	0.25	1.00	
1,1-Dichloropropene	ND	1.5	0.25	1.00	
c-1,3-Dichloropropene	ND	0.76	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.46	1.00	
Ethylbenzene	ND	0.76	0.12	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.76	0.42	1.00	
p-Isopropyltoluene	ND	0.76	0.48	1.00	
Methylene Chloride	ND	7.6	1.0	1.00	
4-Methyl-2-Pentanone	ND	15	3.3	1.00	
Naphthalene	ND	7.6	0.62	1.00	
n-Propylbenzene	ND	1.5	0.38	1.00	
Styrene	ND	0.76	0.46	1.00	
1,1,1,2-Tetrachloroethane	ND	0.76	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.26	1.00	
Tetrachloroethene	ND	0.76	0.16	1.00	
Toluene	ND	0.76	0.39	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.69	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.24	1.00	
1,1,1-Trichloroethane	ND	0.76	0.17	1.00	
1,1,2-Trichloroethane	ND	0.76	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.6	0.27	1.00	
Trichloroethene	ND	1.5	0.23	1.00	
Trichlorofluoromethane	ND	7.6	0.29	1.00	
1,2,3-Trichloropropane	ND	1.5	0.63	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.45	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.42	1.00	
Vinyl Acetate	ND	7.6	3.6	1.00	
Vinyl Chloride	ND	0.76	0.38	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.76	0.42	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-5.0	15-01-0875-5-D	01/15/15 10:40	Solid	GC/MS BB	01/15/15	01/16/15 18:56	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	10	41	5.1	1.00	J
Benzene	0.33	0.82	0.11	1.00	J
Bromobenzene	ND	0.82	0.17	1.00	
Bromochloromethane	ND	1.6	0.57	1.00	
Bromodichloromethane	ND	0.82	0.19	1.00	
Bromoform	ND	4.1	0.65	1.00	
Bromomethane	ND	16	7.7	1.00	
2-Butanone	ND	16	3.1	1.00	
n-Butylbenzene	ND	0.82	0.13	1.00	
sec-Butylbenzene	ND	0.82	0.47	1.00	
tert-Butylbenzene	ND	0.82	0.12	1.00	
Carbon Disulfide	ND	8.2	0.25	1.00	
Carbon Tetrachloride	ND	0.82	0.23	1.00	
Chlorobenzene	ND	0.82	0.18	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.82	0.20	1.00	
Chloromethane	ND	16	0.25	1.00	
2-Chlorotoluene	ND	0.82	0.19	1.00	
4-Chlorotoluene	ND	0.82	0.17	1.00	
Dibromochloromethane	ND	1.6	0.47	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.1	1.4	1.00	
1,2-Dibromoethane	ND	0.82	0.21	1.00	
Dibromomethane	ND	0.82	0.63	1.00	
1,2-Dichlorobenzene	ND	0.82	0.19	1.00	
1,3-Dichlorobenzene	ND	0.82	0.14	1.00	
1,4-Dichlorobenzene	0.21	0.82	0.18	1.00	J
Dichlorodifluoromethane	ND	1.6	0.36	1.00	
1,1-Dichloroethane	ND	0.82	0.17	1.00	
1,2-Dichloroethane	ND	0.82	0.26	1.00	
1,1-Dichloroethene	ND	0.82	0.28	1.00	
c-1,2-Dichloroethene	ND	0.82	0.23	1.00	
t-1,2-Dichloroethene	ND	0.82	0.41	1.00	
1,2-Dichloropropane	ND	0.82	0.36	1.00	
1,3-Dichloropropane	ND	0.82	0.21	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	4.1	0.27	1.00	
1,1-Dichloropropene	ND	1.6	0.27	1.00	
c-1,3-Dichloropropene	ND	0.82	0.21	1.00	
t-1,3-Dichloropropene	ND	1.6	0.50	1.00	
Ethylbenzene	ND	0.82	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.82	0.45	1.00	
p-Isopropyltoluene	ND	0.82	0.52	1.00	
Methylene Chloride	ND	8.2	1.1	1.00	
4-Methyl-2-Pentanone	ND	16	3.5	1.00	
Naphthalene	ND	8.2	0.67	1.00	
n-Propylbenzene	ND	1.6	0.41	1.00	
Styrene	ND	0.82	0.50	1.00	
1,1,1,2-Tetrachloroethane	ND	0.82	0.20	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.28	1.00	
Tetrachloroethene	ND	0.82	0.17	1.00	
Toluene	ND	0.82	0.42	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.75	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.25	1.00	
1,1,1-Trichloroethane	ND	0.82	0.18	1.00	
1,1,2-Trichloroethane	ND	0.82	0.29	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.2	0.29	1.00	
Trichloroethene	ND	1.6	0.25	1.00	
Trichlorofluoromethane	ND	8.2	0.31	1.00	
1,2,3-Trichloropropane	ND	1.6	0.68	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.48	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.45	1.00	
Vinyl Acetate	ND	8.2	3.9	1.00	
Vinyl Chloride	ND	0.82	0.41	1.00	
p/m-Xylene	ND	1.6	0.22	1.00	
o-Xylene	ND	0.82	0.46	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.24	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	95	79-133	
1,2-Dichloroethane-d4	96	71-155	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-10	15-01-0875-6-D	01/15/15 11:15	Solid	GC/MS BB	01/15/15	01/16/15 19:23	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	13	39	4.8	1.00	J
Benzene	ND	0.78	0.10	1.00	
Bromobenzene	ND	0.78	0.16	1.00	
Bromochloromethane	ND	1.6	0.54	1.00	
Bromodichloromethane	ND	0.78	0.18	1.00	
Bromoform	ND	3.9	0.62	1.00	
Bromomethane	ND	16	7.3	1.00	
2-Butanone	ND	16	2.9	1.00	
n-Butylbenzene	ND	0.78	0.12	1.00	
sec-Butylbenzene	ND	0.78	0.45	1.00	
tert-Butylbenzene	ND	0.78	0.12	1.00	
Carbon Disulfide	ND	7.8	0.24	1.00	
Carbon Tetrachloride	ND	0.78	0.22	1.00	
Chlorobenzene	ND	0.78	0.17	1.00	
Chloroethane	ND	1.6	1.2	1.00	
Chloroform	ND	0.78	0.19	1.00	
Chloromethane	ND	16	0.24	1.00	
2-Chlorotoluene	ND	0.78	0.18	1.00	
4-Chlorotoluene	ND	0.78	0.17	1.00	
Dibromochloromethane	ND	1.6	0.44	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.4	1.00	
1,2-Dibromoethane	ND	0.78	0.20	1.00	
Dibromomethane	ND	0.78	0.60	1.00	
1,2-Dichlorobenzene	ND	0.78	0.18	1.00	
1,3-Dichlorobenzene	ND	0.78	0.14	1.00	
1,4-Dichlorobenzene	ND	0.78	0.17	1.00	
Dichlorodifluoromethane	ND	1.6	0.34	1.00	
1,1-Dichloroethane	ND	0.78	0.16	1.00	
1,2-Dichloroethane	ND	0.78	0.24	1.00	
1,1-Dichloroethene	ND	0.78	0.27	1.00	
c-1,2-Dichloroethene	ND	0.78	0.22	1.00	
t-1,2-Dichloroethene	ND	0.78	0.39	1.00	
1,2-Dichloropropane	ND	0.78	0.34	1.00	
1,3-Dichloropropane	ND	0.78	0.20	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3.9	0.26	1.00	
1,1-Dichloropropene	ND	1.6	0.25	1.00	
c-1,3-Dichloropropene	ND	0.78	0.20	1.00	
t-1,3-Dichloropropene	ND	1.6	0.47	1.00	
Ethylbenzene	ND	0.78	0.12	1.00	
2-Hexanone	ND	16	1.4	1.00	
Isopropylbenzene	ND	0.78	0.42	1.00	
p-Isopropyltoluene	ND	0.78	0.49	1.00	
Methylene Chloride	ND	7.8	1.0	1.00	
4-Methyl-2-Pentanone	ND	16	3.4	1.00	
Naphthalene	ND	7.8	0.63	1.00	
n-Propylbenzene	ND	1.6	0.39	1.00	
Styrene	ND	0.78	0.47	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	0.19	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	0.27	1.00	
Tetrachloroethene	ND	0.78	0.16	1.00	
Toluene	ND	0.78	0.40	1.00	
1,2,3-Trichlorobenzene	ND	1.6	0.71	1.00	
1,2,4-Trichlorobenzene	ND	1.6	0.24	1.00	
1,1,1-Trichloroethane	ND	0.78	0.17	1.00	
1,1,2-Trichloroethane	ND	0.78	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	0.27	1.00	
Trichloroethene	ND	1.6	0.23	1.00	
Trichlorofluoromethane	ND	7.8	0.29	1.00	
1,2,3-Trichloropropane	ND	1.6	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.6	0.46	1.00	
1,3,5-Trimethylbenzene	ND	1.6	0.43	1.00	
Vinyl Acetate	ND	7.8	3.7	1.00	
Vinyl Chloride	ND	0.78	0.39	1.00	
p/m-Xylene	ND	1.6	0.21	1.00	
o-Xylene	ND	0.78	0.43	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	0.23	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	80-120	
Dibromofluoromethane	94	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B105-5.0-DUP	15-01-0875-7-D	01/15/15 10:40	Solid	GC/MS Q	01/15/15	01/17/15 13:03	150117L001

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	13	38	4.7	1.00	J
Benzene	0.21	0.75	0.098	1.00	J
Bromobenzene	ND	0.75	0.16	1.00	
Bromochloromethane	ND	1.5	0.52	1.00	
Bromodichloromethane	ND	0.75	0.17	1.00	
Bromoform	ND	3.8	0.60	1.00	
Bromomethane	ND	15	7.1	1.00	
2-Butanone	ND	15	2.8	1.00	
n-Butylbenzene	ND	0.75	0.12	1.00	
sec-Butylbenzene	ND	0.75	0.43	1.00	
tert-Butylbenzene	ND	0.75	0.11	1.00	
Carbon Disulfide	ND	7.5	0.23	1.00	
Carbon Tetrachloride	ND	0.75	0.21	1.00	
Chlorobenzene	0.21	0.75	0.17	1.00	J
Chloroethane	ND	1.5	1.1	1.00	
Chloroform	ND	0.75	0.18	1.00	
Chloromethane	ND	15	0.23	1.00	
2-Chlorotoluene	ND	0.75	0.17	1.00	
4-Chlorotoluene	ND	0.75	0.16	1.00	
Dibromochloromethane	ND	1.5	0.43	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.3	1.00	
1,2-Dibromoethane	ND	0.75	0.19	1.00	
Dibromomethane	ND	0.75	0.58	1.00	
1,2-Dichlorobenzene	ND	0.75	0.17	1.00	
1,3-Dichlorobenzene	ND	0.75	0.13	1.00	
1,4-Dichlorobenzene	ND	0.75	0.17	1.00	
Dichlorodifluoromethane	ND	1.5	0.33	1.00	
1,1-Dichloroethane	ND	0.75	0.16	1.00	
1,2-Dichloroethane	ND	0.75	0.24	1.00	
1,1-Dichloroethene	ND	0.75	0.26	1.00	
c-1,2-Dichloroethene	ND	0.75	0.21	1.00	
t-1,2-Dichloroethene	ND	0.75	0.38	1.00	
1,2-Dichloropropane	ND	0.75	0.33	1.00	
1,3-Dichloropropane	ND	0.75	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	3.8	0.25	1.00	
1,1-Dichloropropene	ND	1.5	0.25	1.00	
c-1,3-Dichloropropene	ND	0.75	0.19	1.00	
t-1,3-Dichloropropene	ND	1.5	0.46	1.00	
Ethylbenzene	ND	0.75	0.11	1.00	
2-Hexanone	ND	15	1.3	1.00	
Isopropylbenzene	ND	0.75	0.41	1.00	
p-Isopropyltoluene	ND	0.75	0.47	1.00	
Methylene Chloride	ND	7.5	1.0	1.00	
4-Methyl-2-Pentanone	ND	15	3.2	1.00	
Naphthalene	ND	7.5	0.61	1.00	
n-Propylbenzene	ND	1.5	0.38	1.00	
Styrene	ND	0.75	0.45	1.00	
1,1,1,2-Tetrachloroethane	ND	0.75	0.18	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	0.26	1.00	
Tetrachloroethene	ND	0.75	0.16	1.00	
Toluene	ND	0.75	0.39	1.00	
1,2,3-Trichlorobenzene	ND	1.5	0.69	1.00	
1,2,4-Trichlorobenzene	ND	1.5	0.23	1.00	
1,1,1-Trichloroethane	ND	0.75	0.17	1.00	
1,1,2-Trichloroethane	ND	0.75	0.27	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	0.26	1.00	
Trichloroethene	ND	1.5	0.23	1.00	
Trichlorofluoromethane	ND	7.5	0.28	1.00	
1,2,3-Trichloropropane	ND	1.5	0.62	1.00	
1,2,4-Trimethylbenzene	ND	1.5	0.44	1.00	
1,3,5-Trimethylbenzene	ND	1.5	0.41	1.00	
Vinyl Acetate	ND	7.5	3.6	1.00	
Vinyl Chloride	ND	0.75	0.38	1.00	
p/m-Xylene	ND	1.5	0.20	1.00	
o-Xylene	ND	0.75	0.42	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	0.22	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	
Dibromofluoromethane	95	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-025-25943	N/A	Solid	GC/MS BB	01/16/15	01/16/15 15:41	150116L017

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	ND	20	0.30	1.00	
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	
Dibromofluoromethane	94	79-133	
1,2-Dichloroethane-d4	87	71-155	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	095-01-025-25946	N/A	Solid	GC/MS Q	01/17/15	01/17/15 11:46	150117L001

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	50	6.2	1.00	
Benzene	ND	1.0	0.13	1.00	
Bromobenzene	ND	1.0	0.21	1.00	
Bromochloromethane	ND	2.0	0.69	1.00	
Bromodichloromethane	ND	1.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	20	9.4	1.00	
2-Butanone	ND	20	3.8	1.00	
n-Butylbenzene	ND	1.0	0.16	1.00	
sec-Butylbenzene	ND	1.0	0.58	1.00	
tert-Butylbenzene	ND	1.0	0.15	1.00	
Carbon Disulfide	ND	10	0.31	1.00	
Carbon Tetrachloride	ND	1.0	0.28	1.00	
Chlorobenzene	ND	1.0	0.22	1.00	
Chloroethane	ND	2.0	1.5	1.00	
Chloroform	ND	1.0	0.24	1.00	
Chloromethane	0.33	20	0.30	1.00	J
2-Chlorotoluene	ND	1.0	0.23	1.00	
4-Chlorotoluene	ND	1.0	0.21	1.00	
Dibromochloromethane	ND	2.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.7	1.00	
1,2-Dibromoethane	ND	1.0	0.26	1.00	
Dibromomethane	ND	1.0	0.77	1.00	
1,2-Dichlorobenzene	ND	1.0	0.23	1.00	
1,3-Dichlorobenzene	ND	1.0	0.18	1.00	
1,4-Dichlorobenzene	ND	1.0	0.22	1.00	
Dichlorodifluoromethane	ND	2.0	0.44	1.00	
1,1-Dichloroethane	ND	1.0	0.21	1.00	
1,2-Dichloroethane	ND	1.0	0.31	1.00	
1,1-Dichloroethene	ND	1.0	0.35	1.00	
c-1,2-Dichloroethene	ND	1.0	0.28	1.00	
t-1,2-Dichloroethene	ND	1.0	0.51	1.00	
1,2-Dichloropropane	ND	1.0	0.44	1.00	
1,3-Dichloropropane	ND	1.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: Maguire - Woods

Page 18 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	2.0	0.33	1.00	
c-1,3-Dichloropropene	ND	1.0	0.25	1.00	
t-1,3-Dichloropropene	ND	2.0	0.61	1.00	
Ethylbenzene	ND	1.0	0.15	1.00	
2-Hexanone	ND	20	1.8	1.00	
Isopropylbenzene	ND	1.0	0.55	1.00	
p-Isopropyltoluene	ND	1.0	0.63	1.00	
Methylene Chloride	ND	10	1.3	1.00	
4-Methyl-2-Pentanone	ND	20	4.3	1.00	
Naphthalene	ND	10	0.81	1.00	
n-Propylbenzene	ND	2.0	0.50	1.00	
Styrene	ND	1.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.35	1.00	
Tetrachloroethene	ND	1.0	0.21	1.00	
Toluene	ND	1.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	2.0	0.91	1.00	
1,2,4-Trichlorobenzene	ND	2.0	0.31	1.00	
1,1,1-Trichloroethane	ND	1.0	0.23	1.00	
1,1,2-Trichloroethane	ND	1.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.35	1.00	
Trichloroethene	ND	2.0	0.30	1.00	
Trichlorofluoromethane	ND	10	0.38	1.00	
1,2,3-Trichloropropane	ND	2.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	2.0	0.59	1.00	
1,3,5-Trimethylbenzene	ND	2.0	0.55	1.00	
Vinyl Acetate	ND	10	4.7	1.00	
Vinyl Chloride	ND	1.0	0.50	1.00	
p/m-Xylene	ND	2.0	0.27	1.00	
o-Xylene	ND	1.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.30	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	
Dibromofluoromethane	93	79-133	
1,2-Dichloroethane-d4	100	71-155	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 3050B
Method: EPA 6010B

Project: Maguire - Woods

Page 1 of 2

Quality Control Sample ID	Type		Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
15-01-0905-1	Sample		Solid	ICP 7300	01/16/15	01/16/15 17:03	150116S01				
15-01-0905-1	Matrix Spike		Solid	ICP 7300	01/16/15	01/16/15 17:05	150116S01				
15-01-0905-1	Matrix Spike Duplicate		Solid	ICP 7300	01/16/15	01/16/15 17:06	150116S01				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers	
Antimony	ND	25.00	1.748	7	0.7251	3	50-115	83	0-20	3,4	
Arsenic	8.092	25.00	36.97	116	34.96	107	75-125	6	0-20		
Barium	513.9	25.00	473.8	4X	385.6	4X	75-125	4X	0-20		Q
Beryllium	0.6905	25.00	29.30	114	27.88	109	75-125	5	0-20		
Cadmium	ND	25.00	27.32	109	26.02	104	75-125	5	0-20		
Chromium	94.35	25.00	125.7	125	134.4	160	75-125	7	0-20		3
Cobalt	15.96	25.00	52.79	147	42.56	106	75-125	21	0-20	3,4	
Copper	40.52	25.00	68.03	110	58.82	73	75-125	15	0-20	3	
Lead	20.31	25.00	45.66	101	36.61	65	75-125	22	0-20	3,4	
Molybdenum	ND	25.00	23.67	95	22.17	89	75-125	7	0-20		
Nickel	109.4	25.00	155.2	4X	147.8	4X	75-125	4X	0-20		Q
Selenium	ND	25.00	25.94	104	23.90	96	75-125	8	0-20		
Silver	ND	12.50	12.71	102	11.97	96	75-125	6	0-20		
Thallium	ND	25.00	17.25	69	15.59	62	75-125	10	0-20		3
Vanadium	55.00	25.00	86.61	126	86.97	128	75-125	0	0-20		3
Zinc	62.35	25.00	92.09	119	87.81	102	75-125	5	0-20		

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15

Work Order: 15-01-0875

Preparation: EPA 7471A Total

Method: EPA 7471A

Project: Maguire - Woods

Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
B104-2.5	Sample	Solid	Mercury 05	01/19/15	01/19/15 13:44	150119S01				
B104-2.5	Matrix Spike	Solid	Mercury 05	01/19/15	01/19/15 13:46	150119S01				
B104-2.5	Matrix Spike Duplicate	Solid	Mercury 05	01/19/15	01/19/15 13:49	150119S01				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.9414	113	0.9307	111	71-137	1	0-14	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/15/15
 Work Order: 15-01-0875
 Preparation: EPA 3050B
 Method: EPA 6010B

Project: Maguire - Woods

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-20171	LCS	Solid	ICP 7300	01/16/15	01/16/15 16:58	150116L01
<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony	25.00	25.74	103	80-120	73-127	
Arsenic	25.00	26.96	108	80-120	73-127	
Barium	25.00	21.03	84	80-120	73-127	
Beryllium	25.00	25.13	101	80-120	73-127	
Cadmium	25.00	26.22	105	80-120	73-127	
Chromium	25.00	21.67	87	80-120	73-127	
Cobalt	25.00	23.74	95	80-120	73-127	
Copper	25.00	26.05	104	80-120	73-127	
Lead	25.00	24.93	100	80-120	73-127	
Molybdenum	25.00	24.66	99	80-120	73-127	
Nickel	25.00	24.42	98	80-120	73-127	
Selenium	25.00	26.85	107	80-120	73-127	
Silver	12.50	10.97	88	80-120	73-127	
Thallium	25.00	25.03	100	80-120	73-127	
Vanadium	25.00	23.38	94	80-120	73-127	
Zinc	25.00	26.77	107	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

Quality Control - LCS

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 01/15/15
 Work Order: 15-01-0875
 Preparation: EPA 7471A Total
 Method: EPA 7471A

Project: Maguire - Woods

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-887	LCS	Solid	Mercury 05	01/19/15	01/19/15 15:26	150119L01

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury	0.8350	0.8019	96	85-121	



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B

Project: Maguire - Woods

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Quality Control Sample ID	Type	Matrix		Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
095-01-025-25946	LCS	Solid		GC/MS Q	01/17/15	01/17/15 10:28	150117L001			
095-01-025-25946	LCSD	Solid		GC/MS Q	01/17/15	01/17/15 10:54	150117L001			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.99	102	50.68	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	49.78	100	49.09	98	65-137	53-149	1	0-20	
Chlorobenzene	50.00	51.20	102	50.39	101	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	48.55	97	49.19	98	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	51.10	102	50.46	101	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	51.01	102	51.18	102	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	48.81	98	48.19	96	68-128	58-138	1	0-20	
Ethylbenzene	50.00	51.96	104	51.28	103	80-120	73-127	1	0-20	
Toluene	50.00	51.86	104	51.62	103	80-120	73-127	0	0-20	
Trichloroethene	50.00	49.82	100	49.24	98	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	47.65	95	46.58	93	67-127	57-137	2	0-20	
p/m-Xylene	100.0	105.9	106	104.9	105	75-125	67-133	1	0-25	
o-Xylene	50.00	53.04	106	51.99	104	75-125	67-133	2	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.02	90	45.57	91	70-124	61-133	1	0-20	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 01/15/15
Work Order: 15-01-0875
Preparation: EPA 5035
Method: EPA 8260B

Project: Maguire - Woods

Page 4 of 4

Quality Control Sample ID	Type	Matrix		Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
095-01-025-25943	LCS	Solid		GC/MS BB	01/16/15	01/16/15 13:56	150116L017			
095-01-025-25943	LCSD	Solid		GC/MS BB	01/16/15	01/16/15 14:23	150116L017			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	57.79	116	57.41	115	80-120	73-127	1	0-20	
Carbon Tetrachloride	50.00	45.38	91	46.43	93	65-137	53-149	2	0-20	
Chlorobenzene	50.00	51.49	103	52.59	105	80-120	73-127	2	0-20	
1,2-Dibromoethane	50.00	52.38	105	53.57	107	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	51.43	103	52.07	104	80-120	73-127	1	0-20	
1,2-Dichloroethane	50.00	51.96	104	52.36	105	80-120	73-127	1	0-20	
1,1-Dichloroethene	50.00	48.80	98	48.24	96	68-128	58-138	1	0-20	
Ethylbenzene	50.00	55.63	111	56.40	113	80-120	73-127	1	0-20	
Toluene	50.00	57.05	114	58.05	116	80-120	73-127	2	0-20	
Trichloroethene	50.00	56.65	113	56.25	113	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	47.48	95	47.55	95	67-127	57-137	0	0-20	
p/m-Xylene	100.0	114.0	114	114.7	115	75-125	67-133	1	0-25	
o-Xylene	50.00	52.95	106	53.24	106	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	54.02	108	53.88	108	70-124	61-133	0	0-20	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 15-01-0875

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 6010B	EPA 3050B	771	ICP 7300	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8260B	EPA 5035	905	GC/MS Q	2
EPA 8260B	EPA 5035	905	GC/MS BB	2


Return to Contents

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 15-01-0875

Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92641-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofins.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: _____
PAGE: _____ OF _____



LABORATORY CLIENT: ATA Environmental
ADDRESS: 3777 Long Beach Blvd, Annex Building
CITY: Long Beach, CA STATE: CA ZIP: 90801
TEL: 562-495-5777 E-MAIL: steven@ataenvironment.com
TURNAROUND TIME (rush surcharges may apply to any TAT not STANDARD):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☒ STANDARD
EOD: _____
☐ COELTEDF ☐ OTHER
SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NO.: Maguire - Woods
PROJECT CONTACT: Steve Rickman
P.O. NO.: mcen-14-4695/4
LAB CONTACT OR QUOTE NO.: _____
GLOBAL ID: T1000004824
LOG CODE: _____
SAMPLER(S) (PRINT): SA #100

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Field Filtered		TPH (g) □ GRO	□ TPH (g) □ DRO	TPH □ C6-C36 □ C6-C44	TPH	BTEX / MTBE □ 8260 □	VOCs (8260)	Oxygenates (8260)	Prep (5035) □ En Core □ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs □ 8270 □ 8270 SIM	T22 Metals □ 6010/747X □ 6020/747X	Cr(VI) □ 7196 □ 7199 □ 218.6
		DATE	TIME			Unpreserved	Preserved														
1	B04-2.5	1/15/15	1330	Soil	4		X						X							X	
2	B04-5.0	"	1335	"	4		X						X						X		
3	B04-10	"	1400	"	4		X						X						X		
4	B05-2.5	"	1035	"	4		X						X						X		
5	B105-5.0	"	1040	"	4		X						X						X		
6	B105-10	"	1115	"	4		X						X						X		
7	B105-5.0-Null	"	1040	"	4		X						X						X		

Received by: (Signature/Affiliation) EU Date: 01/15/15 Time: 15:00
Received by: (Signature/Affiliation) g Date: 1/15/15 Time: 1730
Received by: (Signature/Affiliation) _____ Date: _____ Time: _____

Calscience

WORK ORDER #: 15-01-0875

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ALTA

DATE: 01/15/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 4.4 °C + 0.2 °C (CF) = 4.6 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 804

CUSTODY SEALS INTACT:
☐ Cooler ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: 804

☐ Sample ☐ No (Not Intact) ☒ Not Present Checked by: 681

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☒ Sleeve (P) ☐ EnCores® ☒ TerraCores® 3 2ozJ

Aqueous: ☐ VOA ☐ VOA_h ☐ VOA_{na2} ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☐ 1AGB ☐ 1AGB_{na2} ☐ 1AGB_s
☐ 500AGB ☐ 500AGJ ☐ 500AGJ_s ☐ 250AGB ☐ 250CGB ☐ 250CGB_s ☐ 1PB ☐ 1PB_{na} ☐ 500PB

☐ 250PB ☐ 250PB_n ☐ 125PB ☐ 125PB_{znna} ☐ 100PJ ☐ 100PJ_{na2} ☐ ☐ ☐

Air: ☐ Tedlar® ☐ Canister Other: ☐ Trip Blank Lot#: Labeled/Checked by: 472

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 681

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: 681

APPENDIX D

Laboratory Analytical Reports – Soil Vapor Samples



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/19/2015
JEL Ref. No.: ST-7946

Attn: Steve Ridenour

Date Sampled: 1/19/2015

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Received: 1/19/2015

Date Analyzed: 1/19/2015

Physical State: Soil Gas

ANALYSES REQUESTED

1. EPA TO-15 - Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1-Liter SUMMA Canisters. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB regulations. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the TO-15 analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane were found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record. 1 purge volumes were used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification, QC Reference Standards, and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate sample was analyzed each day of the sampling activity.

Approval:

Steve Jones, Ph.D.
Laboratory Manager



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/19/2015
JEL Ref. No.: ST-7946

Attn: Steve Ridenour

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Sampled: 1/19/2015
Date Received: 1/19/2015
Date Analyzed: 1/19/2015
Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	B103-3' 1P	B103-3' 3P	B103-3' 10P		
JEL ID:	ST-7946-01	ST-7946-02	ST-7946-03	Practical Quantitation Limit	Units
Analytes:					
Acetone	ND	ND	ND	0.001	µg/L
Acrolein	ND	ND	ND	0.003	µg/L
Benzene	ND	ND	ND	0.002	µg/L
Benzyl chloride	ND	ND	ND	0.003	µg/L
Bromodichloromethane	0.011	ND	ND	0.004	µg/L
Bromoform	ND	ND	ND	0.006	µg/L
Bromomethane	ND	ND	ND	0.002	µg/L
1,3-Butadiene	ND	ND	ND	0.001	µg/L
2-Butanone (MEK)	0.043	0.043	ND	0.002	µg/L
Carbon disulfide	ND	ND	ND	0.002	µg/L
Carbon tetrachloride	ND	ND	ND	0.003	µg/L
Chlorobenzene	ND	ND	ND	0.003	µg/L
Chloroform	0.008	0.005	0.004	0.002	µg/L
Cyclohexane	ND	ND	ND	0.002	µg/L
Dibromochloromethane	ND	ND	ND	0.005	µg/L
1,2-Dibromoethane	ND	ND	ND	0.005	µg/L
1,2-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,1-Dichloroethane	ND	ND	ND	0.002	µg/L
1,2-Dichloroethane	ND	ND	ND	0.002	µg/L
1,1-Dichloroethene	ND	ND	ND	0.002	µg/L
Cis-1,2-Dichloroethene	ND	ND	ND	0.002	µg/L
Trans-1,2-Dichloroethene	ND	ND	ND	0.002	µg/L
1,2-Dichloropropane	ND	ND	ND	0.003	µg/L
Cis-1,3-Dichloropropene	ND	ND	ND	0.003	µg/L
Trans-1,3-Dichloropropene	ND	ND	ND	0.003	µg/L
1,4-Dioxane	ND	ND	ND	0.002	µg/L
Ethanol	ND	ND	ND	0.001	µg/L

ND = Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	B103-3' 1P	B103-3' 3P	B103-3' 10P		
JEL ID:	ST-7946-01	ST-7946-02	ST-7946-03	Practical Quantitation	Units
Analytes:				Limit	
Ethyl acetate	ND	ND	ND	0.002	µg/L
Ethyl benzene	0.059	0.040	0.031	0.003	µg/L
4-Ethyltoluene	ND	ND	ND	0.003	µg/L
Freon 11	ND	ND	ND	0.003	µg/L
Freon 12	ND	ND	ND	0.003	µg/L
Freon 113	0.012	0.010	0.010	0.005	µg/L
Freon 114	ND	ND	ND	0.004	µg/L
Heptane	ND	ND	ND	0.002	µg/L
Hexachloro-1,3-butadiene	ND	ND	ND	0.006	µg/L
Hexane	ND	ND	ND	0.002	µg/L
2-Hexanone (MBK)	ND	ND	ND	0.002	µg/L
Isopropyl Alcohol	ND	ND	ND	0.002	µg/L
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	0.002	µg/L
Methylene chloride	0.021	0.013	0.010	0.002	µg/L
MTBE	ND	ND	ND	0.002	µg/L
Methylmethacrylate	ND	ND	ND	0.002	µg/L
Naphthalene	ND	ND	ND	0.005	µg/L
Propylene	ND	ND	ND	0.001	µg/L
Styrene	ND	ND	ND	0.003	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.004	µg/L
Tetrachloroethene	0.020	0.018	0.018	0.002	µg/L
Tetrahydrofuran	ND	ND	ND	0.002	µg/L
Toluene	0.157	0.101	0.075	0.002	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.003	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.003	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.003	µg/L
Trichloroethene	ND	ND	ND	0.003	µg/L
1,2,4-Trimethylbenzene	0.042	0.021	0.024	0.003	µg/L
1,3,5-Trimethylbenzene	0.005	ND	0.008	0.003	µg/L
Vinyl Acetate	ND	ND	ND	0.004	µg/L
Vinyl chloride	ND	ND	ND	0.002	µg/L
o-Xylene	0.038	0.025	0.019	0.003	µg/L
p/m-Xylene	0.285	0.195	0.144	0.003	µg/L
TIC:					
n-propanol	ND	ND	ND	0.060	µg/L
n-pentane	ND	ND	ND	0.003	µg/L
Dilution Factor	1	1	1		
Surrogate Recovery:				QC Limits	
4-Bromofluorobenzene	83%	83%	92%	60-140	
	TO-011915- CHECKS	TO-011915- CHECKS	TO-011915- CHECKS		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/19/2015
JEL Ref. No.: ST-7946

Attn: Steve Ridenour

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Sampled: 1/19/2015
Date Received: 1/19/2015
Date Analyzed: 1/19/2015
Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID: METHOD
BLANK

JEL ID: ST-7946-04

		<u>Practical</u>	<u>Units</u>
		<u>Quantitation</u>	
		<u>Limit</u>	
Analytes:			
Acetone	ND	0.001	µg/L
Acrolein	ND	0.003	µg/L
Benzene	ND	0.002	µg/L
Benzyl chloride	ND	0.003	µg/L
Bromodichloromethane	ND	0.004	µg/L
Bromoform	ND	0.006	µg/L
Bromomethane	ND	0.002	µg/L
1,3-Butadiene	ND	0.001	µg/L
2-Butanone (MEK)	ND	0.002	µg/L
Carbon disulfide	ND	0.002	µg/L
Carbon tetrachloride	ND	0.003	µg/L
Chlorobenzene	ND	0.003	µg/L
Chloroform	ND	0.002	µg/L
Cyclohexane	ND	0.002	µg/L
Dibromochloromethane	ND	0.005	µg/L
1,2-Dibromoethane	ND	0.005	µg/L
1,2-Dichlorobenzene	ND	0.004	µg/L
1,3-Dichlorobenzene	ND	0.004	µg/L
1,4-Dichlorobenzene	ND	0.004	µg/L
1,1-Dichloroethane	ND	0.002	µg/L
1,2-Dichloroethane	ND	0.002	µg/L
1,1-Dichloroethene	ND	0.002	µg/L
Cis-1,2-Dichloroethene	ND	0.002	µg/L
Trans-1,2-Dichloroethene	ND	0.002	µg/L
1,2-Dichloropropane	ND	0.003	µg/L
Cis-1,3-Dichloropropene	ND	0.003	µg/L
Trans-1,3-Dichloropropene	ND	0.003	µg/L
1,4-Dioxane	ND	0.002	µg/L
Ethanol	ND	0.001	µg/L

ND = Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	METHOD		
	BLANK		
<u>JEL ID:</u>	ST-7946-04	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>		<u>Quantitation</u>	
		<u>Limit</u>	
Ethyl acetate	ND	0.002	µg/L
Ethyl benzene	ND	0.003	µg/L
4-Ethyltoluene	ND	0.003	µg/L
Freon 11	ND	0.003	µg/L
Freon 12	ND	0.003	µg/L
Freon 113	ND	0.005	µg/L
Freon 114	ND	0.004	µg/L
Heptane	ND	0.002	µg/L
Hexachloro-1,3-butadiene	ND	0.006	µg/L
Hexane	ND	0.002	µg/L
2-Hexanone (MBK)	ND	0.002	µg/L
Isopropyl Alcohol	ND	0.002	µg/L
4-Methyl-2-pentanone (MIBK)	ND	0.002	µg/L
Methylene chloride	ND	0.002	µg/L
MTBE	ND	0.002	µg/L
Methylmethacrylate	ND	0.002	µg/L
Naphthalene	ND	0.005	µg/L
Propylene	ND	0.001	µg/L
Styrene	ND	0.003	µg/L
1,1,2,2-Tetrachloroethane	ND	0.004	µg/L
Tetrachloroethene	ND	0.002	µg/L
Tetrahydrofuran	ND	0.002	µg/L
Toluene	ND	0.002	µg/L
1,2,4-Trichlorobenzene	ND	0.003	µg/L
1,1,1-Trichloroethane	ND	0.003	µg/L
1,1,2-Trichloroethane	ND	0.003	µg/L
Trichloroethene	ND	0.003	µg/L
1,2,4-Trimethylbenzene	ND	0.003	µg/L
1,3,5-Trimethylbenzene	ND	0.003	µg/L
Vinyl Acetate	ND	0.004	µg/L
Vinyl chloride	ND	0.002	µg/L
o-Xylene	ND	0.003	µg/L
p/m-Xylene	ND	0.003	µg/L
<u>TIC:</u>			
n-propanol	ND	0.060	µg/L
n-pentane	ND	0.003	µg/L
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>		<u>QC Limits</u>	
4-Bromofluorobenzene		60-140	
	TO-011915- CHECKS		

ND= Not Detected



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/19/2015
JEL Ref. No.: ST-7946
Client Ref. No.:

Attn: Steve Ridenour

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Sampled: 1/19/2015
Date Received: 1/19/2015
Date Analyzed: 1/19/2015
Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked:	Ambient Air		GC#: TO-011915-CHECKS			
JEL ID:	ST-7946-06	ST-7946-07	ST-7946-05			
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl Chloride	99%	88%	10.9%	60-140	87%	70-130
1,1-Dichloroethylene	95%	93%	2.1%	60-140	88%	70-130
Cis-1,2-Dichloroethene	105%	99%	6.1%	70-130	92%	70-130
1,1,1-Trichloroethane	87%	88%	1.1%	70-130	82%	70-130
Benzene	100%	98%	1.9%	70-130	94%	70-130
Trichloroethylene	89%	84%	6.0%	70-130	84%	70-130
Toluene	89%	87%	2.3%	70-130	86%	70-130
Tetrachloroethene	91%	92%	0.6%	70-130	90%	70-130
Chlorobenzene	63%	62%	1.1%	70-130	66%	70-130
Ethylbenzene	80%	82%	2.3%	70-130	77%	70-130
1,2,4 Trimethylbenzene	99%	78%	18.0%	70-130	103%	70-130
Surrogate Recovery:						
4-Bromofluorobenzene	103%	98%		75-125	96%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

**JONES ENVIRONMENTAL
LABORATORY RESULTS**

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/22/2015
JEL Ref. No.: ST-7948

Attn: Steve Ridenour

Date Sampled: 1/20/2015
Date Received: 1/20/2015
Date Analyzed: 1/20-21/2015
Physical State: Soil Gas

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

ANALYSES REQUESTED

1. EPA TO-15 - Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1-Liter SUMMA Canisters. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB regulations. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the TO-15 analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane were found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record. 1 purge volumes were used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification, QC Reference Standards, and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate sample was analyzed each day of the sampling activity.

Approval:

Steve Jones, Ph.D.
Laboratory Manager



P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/22/2015
JEL Ref. No.: ST-7948

Attn: Steve Ridenour

Date Sampled: 1/20/2015

Date Received: 1/20/2015

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Analyzed: 1/20-21/2015

Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	B103-6.5'	B104-4'	B104-8'	B105-4'	B105-8'		
<u>JEL ID:</u>	ST-7948-01	ST-7948-02	ST-7948-03	ST-7948-04	ST-7948-05	<u>Practical Quantitation</u>	<u>Units</u>
<u>Analytes:</u>						<u>Limit</u>	
Acetone	ND	ND	ND	ND	ND	0.001	µg/L
Acrolein	ND	ND	ND	ND	ND	0.003	µg/L
Benzene	0.024	0.030	0.018	0.025	0.008	0.002	µg/L
Benzyl chloride	ND	ND	ND	ND	ND	0.003	µg/L
Bromodichloromethane	ND	ND	ND	ND	0.023	0.004	µg/L
Bromoform	ND	ND	ND	ND	ND	0.006	µg/L
Bromomethane	ND	ND	ND	ND	ND	0.002	µg/L
1,3-Butadiene	ND	ND	ND	ND	ND	0.001	µg/L
2-Butanone (MEK)	0.061	0.039	0.040	ND	0.029	0.002	µg/L
Carbon disulfide	ND	ND	ND	ND	ND	0.002	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.003	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.003	µg/L
Chloroform	ND	0.016	ND	0.010	0.017	0.002	µg/L
Cyclohexane	ND	0.016	ND	ND	ND	0.002	µg/L
Dibromochloromethane	ND	ND	ND	0.014	ND	0.005	µg/L
1,2-Dibromoethane	ND	ND	ND	ND	ND	0.005	µg/L
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	0.004	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.004	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.004	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.002	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.002	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.002	µg/L
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.002	µg/L
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.002	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.003	µg/L
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.003	µg/L
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.003	µg/L
1,4-Dioxane	ND	ND	ND	ND	ND	0.002	µg/L
Ethanol	ND	ND	ND	ND	ND	0.001	µg/L

ND = Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	B103-6.5'	B104-4'	B104-8'	B105-4'	B105-8'		
<u>JEL ID:</u>	ST-7948-01	ST-7948-02	ST-7948-03	ST-7948-04	ST-7948-05	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>						<u>Quantitation</u>	
						<u>Limit</u>	
Ethyl acetate	ND	ND	ND	ND	ND	0.002	µg/L
Ethyl benzene	0.107	0.238	ND	0.076	ND	0.003	µg/L
4-Ethyltoluene	0.027	0.022	0.024	0.042	ND	0.003	µg/L
Freon 11	ND	ND	ND	ND	ND	0.003	µg/L
Freon 12	ND	ND	ND	ND	ND	0.003	µg/L
Freon 113	ND	0.065	0.101	0.722	0.837	0.005	µg/L
Freon 114	ND	ND	ND	ND	ND	0.004	µg/L
Heptane	ND	0.267	0.030	0.033	ND	0.002	µg/L
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	0.006	µg/L
Hexane	ND	0.061	0.043	ND	ND	0.002	µg/L
2-Hexanone (MBK)	ND	ND	ND	0.006	ND	0.002	µg/L
Isopropyl Alcohol	ND	0.018	ND	ND	ND	0.002	µg/L
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	0.002	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.002	µg/L
MTBE	ND	ND	ND	ND	ND	0.002	µg/L
Methylmethacrylate	ND	ND	ND	ND	ND	0.002	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.005	µg/L
Propylene	ND	ND	ND	ND	ND	0.001	µg/L
Styrene	ND	ND	ND	ND	ND	0.003	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.004	µg/L
Tetrachloroethene	0.026	0.077	0.120	0.060	0.285	0.002	µg/L
Tetrahydrofuran	ND	ND	ND	ND	ND	0.002	µg/L
Toluene	0.186	0.158	0.056	0.186	0.043	0.002	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.003	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.003	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.003	µg/L
Trichloroethene	ND	ND	ND	ND	0.019	0.003	µg/L
1,2,4-Trimethylbenzene	0.043	0.009	0.010	0.056	0.013	0.003	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.003	µg/L
Vinyl Acetate	ND	ND	ND	ND	ND	0.004	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.002	µg/L
o-Xylene	0.065	0.036	0.015	0.049	0.007	0.003	µg/L
p/m-Xylene	0.816	0.561	0.175	0.748	0.095	0.003	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.060	µg/L
n-pentane	ND	ND	ND	ND	ND	0.003	µg/L
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
4-Bromofluorobenzene	76%	79%	80%	93%	86%	60-140	
TO-012015-CHECKS_1	TO-012015-CHECKS_1	TO-012015-CHECKS_1	TO-012015-CHECKS_1	TO-012015-CHECKS_1	TO-012015-CHECKS_1		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/22/2015
JEL Ref. No.: ST-7948

Attn: Steve Ridenour

Date Sampled: 1/20/2015

Date Received: 1/20/2015

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Analyzed: 1/20-21/2015

Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	B102-3'	B102-6.5'	B102-6.5' DUP		
<u>JEL ID:</u>	ST-7948-06	ST-7948-07	ST-7948-08	<u>Practical</u> <u>Quantitation</u> <u>Limit</u>	<u>Units</u>
Analytes:					
Acetone	ND	ND	ND	0.001	µg/L
Acrolein	ND	ND	ND	0.003	µg/L
Benzene	0.013	0.011	0.012	0.002	µg/L
Benzyl chloride	ND	ND	ND	0.003	µg/L
Bromodichloromethane	ND	ND	ND	0.004	µg/L
Bromoform	ND	ND	ND	0.006	µg/L
Bromomethane	ND	ND	ND	0.002	µg/L
1,3-Butadiene	ND	ND	ND	0.001	µg/L
2-Butanone (MEK)	0.060	0.027	0.026	0.002	µg/L
Carbon disulfide	ND	ND	ND	0.002	µg/L
Carbon tetrachloride	ND	ND	ND	0.003	µg/L
Chlorobenzene	ND	ND	ND	0.003	µg/L
Chloroform	ND	ND	ND	0.002	µg/L
Cyclohexane	ND	ND	ND	0.002	µg/L
Dibromochloromethane	ND	ND	ND	0.005	µg/L
1,2-Dibromoethane	ND	ND	ND	0.005	µg/L
1,2-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.004	µg/L
1,1-Dichloroethane	ND	ND	ND	0.002	µg/L
1,2-Dichloroethane	ND	ND	ND	0.002	µg/L
1,1-Dichloroethene	ND	ND	ND	0.002	µg/L
Cis-1,2-Dichloroethene	ND	ND	ND	0.002	µg/L
Trans-1,2-Dichloroethene	ND	ND	ND	0.002	µg/L
1,2-Dichloropropane	ND	ND	ND	0.003	µg/L
Cis-1,3-Dichloropropene	ND	ND	ND	0.003	µg/L
Trans-1,3-Dichloropropene	ND	ND	ND	0.003	µg/L
1,4-Dioxane	ND	ND	ND	0.002	µg/L
Ethanol	0.009	0.011	0.007	0.001	µg/L

ND = Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	B102-3'	B102-6.5'	B102-6.5' DUP		
JEL ID:	ST-7948-06	ST-7948-07	ST-7948-08	Practical Quantitation	Units
Analytes:				Limit	
Ethyl acetate	ND	ND	ND	0.002	µg/L
Ethyl benzene	0.034	ND	ND	0.003	µg/L
4-Ethyltoluene	0.013	ND	ND	0.003	µg/L
Freon 11	ND	ND	ND	0.003	µg/L
Freon 12	ND	ND	ND	0.003	µg/L
Freon 113	ND	ND	ND	0.005	µg/L
Freon 114	ND	ND	ND	0.004	µg/L
Heptane	ND	ND	ND	0.002	µg/L
Hexachloro-1,3-butadiene	ND	ND	ND	0.006	µg/L
Hexane	ND	ND	ND	0.002	µg/L
2-Hexanone (MBK)	ND	ND	ND	0.002	µg/L
Isopropyl Alcohol	ND	ND	ND	0.002	µg/L
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	0.002	µg/L
Methylene chloride	ND	ND	ND	0.002	µg/L
MTBE	ND	ND	ND	0.002	µg/L
Methylmethacrylate	ND	ND	ND	0.002	µg/L
Naphthalene	ND	ND	ND	0.005	µg/L
Propylene	ND	ND	ND	0.001	µg/L
Styrene	ND	ND	ND	0.003	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.004	µg/L
Tetrachloroethene	0.154	0.194	0.211	0.002	µg/L
Tetrahydrofuran	ND	ND	ND	0.002	µg/L
Toluene	0.074	0.026	0.027	0.002	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.003	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.003	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.003	µg/L
Trichloroethene	ND	ND	ND	0.003	µg/L
1,2,4-Trimethylbenzene	0.029	0.010	0.010	0.003	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.003	µg/L
Vinyl Acetate	ND	ND	ND	0.004	µg/L
Vinyl chloride	ND	ND	ND	0.002	µg/L
o-Xylene	0.020	0.006	0.006	0.003	µg/L
p/m-Xylene	0.321	0.138	0.156	0.003	µg/L
TIC:					
n-propanol	ND	ND	ND	0.060	µg/L
n-pentane	ND	ND	ND	0.003	µg/L
Dilution Factor	1	1	1		
Surrogate Recovery:				QC Limits	
4-Bromofluorobenzene	88%	86%		60-140	
	TO-012015- CHECKS_1	TO-012015- CHECKS_1	TO-012015- CHECKS_1		

ND= Not Detected



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JONES ENVIRONMENTAL LABORATORY RESULTS

Client: Alta Environmental, Inc.
Client Address: 3777 Long Beach Blvd.
Long Beach, CA 90807

Report date: 1/22/2015
JEL Ref. No.: ST-7948

Attn: Steve Ridenour

Date Sampled: 1/20/2015

Date Received: 1/20/2015

Project: Panama Site
Project Address: 12964 Panama Street
Los Angeles, CA

Date Analyzed: 1/20-21/2015

Physical State: Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID: METHOD
BLANK

JEL ID: ST-7948-09

Analytes:

		<u>Practical Quantitation Limit</u>	<u>Units</u>
Acetone	ND	0.001	µg/L
Acrolein	ND	0.003	µg/L
Benzene	ND	0.002	µg/L
Benzyl chloride	ND	0.003	µg/L
Bromodichloromethane	ND	0.004	µg/L
Bromoform	ND	0.006	µg/L
Bromomethane	ND	0.002	µg/L
1,3-Butadiene	ND	0.001	µg/L
2-Butanone (MEK)	ND	0.002	µg/L
Carbon disulfide	ND ND	0.002	µg/L
Carbon tetrachloride	ND	0.003	µg/L
Chlorobenzene	ND	0.003	µg/L
Chloroform	ND	0.002	µg/L
Cyclohexane	ND	0.002	µg/L
Dibromochloromethane	ND	0.005	µg/L
1,2-Dibromoethane	ND	0.005	µg/L
1,2-Dichlorobenzene	ND	0.004	µg/L
1,3-Dichlorobenzene	ND	0.004	µg/L
1,4-Dichlorobenzene	ND	0.004	µg/L
1,1-Dichloroethane	ND	0.002	µg/L
1,2-Dichloroethane	ND	0.002	µg/L
1,1-Dichloroethene	ND	0.002	µg/L
Cis-1,2-Dichloroethene	ND	0.002	µg/L
Trans-1,2-Dichloroethene	ND	0.002	µg/L
1,2-Dichloropropane	ND	0.003	µg/L
Cis-1,3-Dichloropropene	ND	0.003	µg/L
Trans-1,3-Dichloropropene	ND	0.003	µg/L
1,4-Dioxane	ND	0.002	µg/L
Ethanol	ND	0.001	µg/L

ND = Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

<u>Sample ID:</u>	METHOD		
	BLANK		
<u>JEL ID:</u>	ST-7948-09	<u>Practical</u>	<u>Units</u>
<u>Analytes:</u>		<u>Quantitation</u>	
		<u>Limit</u>	
Ethyl acetate	ND	0.002	µg/L
Ethyl benzene	ND	0.003	µg/L
4-Ethyltoluene	ND	0.003	µg/L
Freon 11	ND	0.003	µg/L
Freon 12	ND	0.003	µg/L
Freon 113	ND	0.005	µg/L
Freon 114	ND	0.004	µg/L
Heptane	ND	0.002	µg/L
Hexachloro-1,3-butadiene	ND	0.006	µg/L
Hexane	ND	0.002	µg/L
2-Hexanone (MBK)	ND	0.002	µg/L
Isopropyl Alcohol	ND	0.002	µg/L
4-Methyl-2-pentanone (MIBK)	ND	0.002	µg/L
Methylene chloride	ND	0.002	µg/L
MTBE	ND	0.002	µg/L
Methylmethacrylate	ND	0.002	µg/L
Naphthalene	ND	0.005	µg/L
Propylene	ND	0.001	µg/L
Styrene	ND	0.003	µg/L
1,1,2,2-Tetrachloroethane	ND	0.004	µg/L
Tetrachloroethene	ND	0.002	µg/L
Tetrahydrofuran	ND	0.002	µg/L
Toluene	ND	0.002	µg/L
1,2,4-Trichlorobenzene	ND	0.003	µg/L
1,1,1-Trichloroethane	ND	0.003	µg/L
1,1,2-Trichloroethane	ND	0.003	µg/L
Trichloroethene	ND	0.003	µg/L
1,2,4-Trimethylbenzene	ND	0.003	µg/L
1,3,5-Trimethylbenzene	ND	0.003	µg/L
Vinyl Acetate	ND	0.004	µg/L
Vinyl chloride	ND	0.002	µg/L
o-Xylene	ND	0.003	µg/L
p/m-Xylene	ND	0.003	µg/L
<u>TIC:</u>			
n-propanol	ND	0.060	µg/L
n-pentane	ND	0.003	µg/L
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>		<u>QC Limits</u>	
4-Bromofluorobenzene	89%	60-140	
	TO-012015- CHECKS_1		

ND= Not Detected



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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Alta Environmental, Inc.	ST-7948	1/22/2015
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	JEL Ref. No.:	ST-7946
Attn:	Steve Ridenour	Date Sampled:	1/20/2015
		Date Received:	1/20/2015
Project:	Panama Site	Date Analyzed:	1/20-21/2015
Project Address:	12964 Panama Street Los Angeles, CA	Physical State:	Soil Gas

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked:	Ambient Air		GC#:	TO-012015-CHECKS_1		
JEL ID:	ST-7948-11	ST-7948-12		ST-7948-10		
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl Chloride	94%	87%	8.5%	60-140	73%	70-130
1,1-Dichloroethylene	98%	90%	8.7%	60-140	85%	70-130
Cis-1,2-Dichloroethene	102%	96%	6.2%	70-130	93%	70-130
1,1,1-Trichloroethane	86%	81%	5.6%	70-130	76%	70-130
Benzene	99%	94%	5.1%	70-130	91%	70-130
Trichloroethylene	88%	85%	4.4%	70-130	79%	70-130
Toluene	88%	86%	3.0%	70-130	82%	70-130
Tetrachloroethene	92%	89%	2.3%	70-130	81%	70-130
Chlorobenzene	63%	61%	2.4%	70-130	72%	70-130
Ethylbenzene	78%	78%	0.4%	70-130	62%	70-130
1,2,4 Trimethylbenzene	68%	66%	3.1%	70-130	58%	70-130
Surrogate Recovery:						
4-Bromofluorobenzene	97%	94%		75-125	90%	75-125

Method Blank = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference; Acceptability range for RPD is $\leq 15\%$

APPENDIX E

Well Development Records

LIN./FT.

 $4 \text{ IN.} = 0.66$

2 IN.=0.17	6 IN.=1.5
3 IN.=0.38	8 IN.=2.51
4 IN.=0.66	

Development / Purge Record

Date 1-29-15 Project # 105-15-1593 Site Panama St
Well I.D. # MW-7 Water Level T.O.C. 11.05 Ft. Total Depth 19.6 Ft.
Set Up _____ Well Dia. 4 In. Water Column Height _____ Ft. Casing Volume _____ Gal.

Comments: _____

Data Collected By: G. Beltran

APPENDIX F

Well and Boring Survey Report



DMc Engineering
Civil • Surveying • Planning • Construction

MONITORING WELL SURVEY REPORT

CLIENT: ALTA ENVIRONMENTAL
SITE ADDRESS: 12964 Panama St., Los Angeles, CA 90066
DATE OF SURVEY(s): 6-14-2013, Updated 02-04-2015
DATE OF REPORT: 2-17-2015

HORIZONTAL AND VERTICAL CONTROL

Horizontal Datum: State Plane, NAD83
Horizontal Zone: California 5
Horizontal Units: U.S. Survey Feet
Vertical Datum: CITY OF LOS ANGELES BM# 11028
Elev. = 19.445 FT (NGVD 29) ADJ. 1985
Vertical Units: U.S. Survey Feet

(CALIFORNIA STATE PLANE COORDINATES-NAD83)

<u>NORTHING</u>	<u>EASTING</u>	<u>TC ELEV.</u>	<u>LID ELEV.</u>	<u>WELL</u>
1816243.753	6431595.558	12.326	12.571	GW- 1
1816751.008	6431795.959	11.864	12.129	GW- 2
1816324.071	6431884.320	11.529	12.571	GW- 3
1816215.044	6431941.478	11.667	12.096	MW-7
1816383.309	6432049.411	12.236	12.662	MW-8



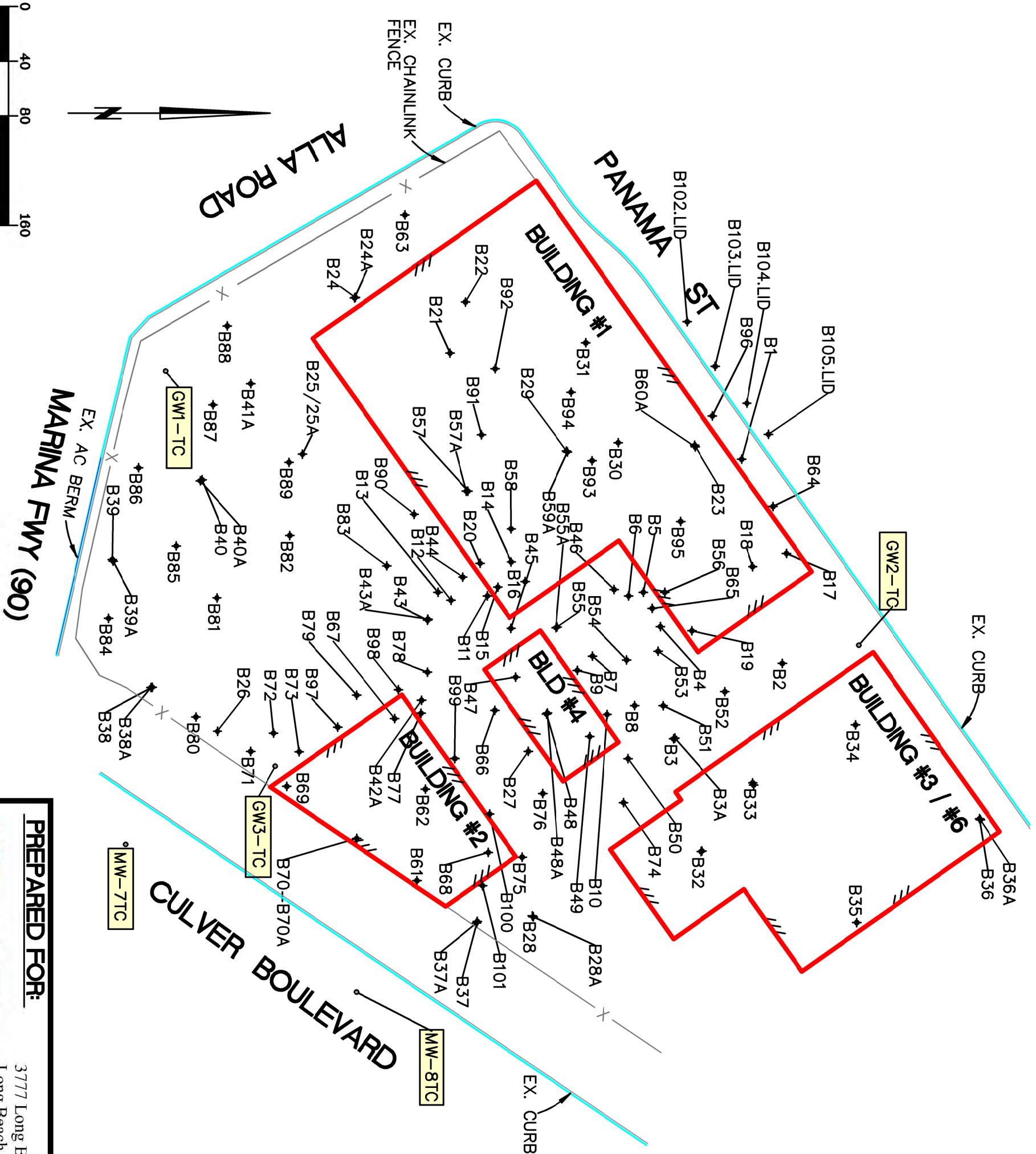
DMc Engineering
Civil • Surveying • Planning • Construction

(LATITUDE AND LONGITUDE FORMAT= DECIMAL-DEGREES)

<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>WELL</u>
33.982369828	118.429045031	GW-1
33.983766025	118.428391139	GW-2
33.982593911	118.428093677	GW-3
33.982294993	118.427903609	MW-7
33.982758620	118.427549953	MW-8

NOTE:

TC = Top of Casing
LID = Top of Lid



LEGEND:

- MW2TC
GROUNDWATER MONITORING WELL SURVEYED
TC= TOP OF CASING (FEB. 4, 2015 SURVEY)
- GW2-TC
GROUNDWATER MONITORING WELL SURVEYED
TC= TOP OF CASING (JUNE 14, 2013)
- B17
BORING LOCATION / IDENTIFICATION
- EXISTING BUILDING FOOTPRINT AND NUMBER
AS IDENTIFIED BY ALTA ENVIRONMENTAL
FIELD PERSONAL AT THE TIME THE FIELD
SURVEY WORK WAS PERFORMED BY DMC.
- EXISTING CURB
- EXISTING CHAINLINK FENCE

ABBREVIATIONS:

- EX. ----- EXISTING
- TC ----- TOP OF CASING
- FWY ----- FREEWAY
- ST ----- STREET
- BLD ----- BUILDING

HORIZONTAL DATUM:

CALIFORNIA STATE PLANE, NAD 83, CALIFORNIA ZONE 5
HORIZONTAL UNITS ARE MEASURED IN U.S. FEET
SEE GEOTRACKER TABLE #1 FOR VALUES.

VERTICAL DATUM:

CITY OF LOS ANGELES BENCHMARK NO. 11028
ELEVATION 19.44 FT (NGVD 29) ADJUSTMENT YEAR 1985
VERTICAL UNITS ARE MEASURED IN U.S. FEET.
SEE GEOTRACKER TABLE #5 FOR VALUES.

SITE ADDRESS:

12964 PANAMA STREET
LOS ANGELES, CALIFORNIA 90066

PLOT DATE: 2-17-2015	
DRAWN: MR	APPRV.: JM
SURVEY DATE(S):	
SURVEY UPDATED:	02-04-2015
ORIGINAL SURVEY:	06-14-2013

PREPARED FOR:

3777 Long Beach Blvd. -Annex Bldg
Long Beach, California 90807
(888) 608-3010
www.altaenviiron.com



ALTA PROJECT # MCGU-13-2252

PREPARED BY:



DMC ENGINEERING
CIVIL ■ SURVEYING ■ PLANNING ■ CONSTRUCTION
18 Technology Drive, Suite 100, Irvine, CA 92618
Tel: (949) 753-9393 E-Mail: dmec@dmceng.com

DMC IRVINE
PANAMA ST., LA

17 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B102 LID

1/121

Northing/Y: 1816625.205
Easting/X: 6431559.562

Latitude: 33.983417569
Longitude: 118.429169136

Convergence: -0 14 40.67345
Scale Factor: 1.000011191

B103 LID

2/121

Northing/Y: 1816645.914
Easting/X: 6431592.159

Latitude: 33.983474856
Longitude: 118.429061905

Convergence: -0 14 40.45340
Scale Factor: 1.000011178

B104 LID

3/121

Northing/Y: 1816669.119
Easting/X: 6431619.076

Latitude: 33.983538935
Longitude: 118.428973445

Convergence: -0 14 40.27188
Scale Factor: 1.000011163

B105 LID

4/121

Northing/Y: 1816684.881
Easting/X: 6431641.859

Latitude: 33.983582514
Longitude: 118.428898516

Convergence: -0 14 40.11812
Scale Factor: 1.000011153

Remark: DECIMAL-DEGREES

DMC-IRVINE
PANAMA ST. LA
13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B1

5/121

Northing/Y: 1816665.151
Easting/X: 6431660.003

Latitude: 33.983528512
Longitude: 118.428838389

Convergence: -0 14 39.99474
Scale Factor: 1.000011165

B64

6/121

Northing/Y: 1816688.142
Easting/X: 6431694.601

Latitude: 33.983592093
Longitude: 118.428724590

Convergence: -0 14 39.76122
Scale Factor: 1.000011151

B96

7/121

Northing/Y: 1816643.867
Easting/X: 6431628.389

Latitude: 33.983469656
Longitude: 118.428942370

Convergence: -0 14 40.20811
Scale Factor: 1.000011179

B87

8/121

Northing/Y: 1816278.543
Easting/X: 6431620.259

Latitude: 33.982465715
Longitude: 118.428964044

Convergence: -0 14 40.25259
Scale Factor: 1.000011412

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B86

9/121

Northing/Y: 1816224.281
Easting/X: 6431666.261

Latitude: 33.982317152
Longitude: 118.428811543

Convergence: -0 14 39.93965
Scale Factor: 1.000011446

B40

10/121

Northing/Y: 1816270.593
Easting/X: 6431675.024

Latitude: 33.982444512
Longitude: 118.428783290

Convergence: -0 14 39.88167
Scale Factor: 1.000011417

B40A

11/121

Northing/Y: 1816269.346
Easting/X: 6431675.827

Latitude: 33.982441095
Longitude: 118.428780624

Convergence: -0 14 39.87620
Scale Factor: 1.000011418

B85

12/121

Northing/Y: 1816251.805
Easting/X: 6431723.417

Latitude: 33.982393453
Longitude: 118.428623401

Convergence: -0 14 39.55358
Scale Factor: 1.000011429

Remark:

DMC-IRVINE
PANAMA ST. LA
13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B39

13/121

Northing/Y: 1816204.963
Easting/X: 6431733.336

Latitude: 33.982264855
Longitude: 118.428590024

Convergence: -0 14 39.48509
Scale Factor: 1.000011458

B-NO ID

14/121

Northing/Y: 1816207.299
Easting/X: 6431733.698

Latitude: 33.982261279
Longitude: 118.428588863

Convergence: -0 14 39.48270
Scale Factor: 1.000011457

B84

15/121

Northing/Y: 1816202.201
Easting/X: 6431776.314

Latitude: 33.982257769
Longitude: 118.428448223

Convergence: -0 14 39.19410
Scale Factor: 1.000011460

B38A

16/121

Northing/Y: 1816233.197
Easting/X: 6431826.92

Latitude: 33.982343534
Longitude: 118.428281735

Convergence: -0 14 38.85246
Scale Factor: 1.000011440

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

~~B6~~
Northing/Y: 1816225.71
Easting/X: 6431826.189
Convergence: -0 14 38.85748
Scale Factor: 1.000011439

~~17/121~~
Latitude: 33.982590430
Longitude: 118.428284181

VOID

B80

Northing/Y: 1816266.129
Easting/X: 6431848.398

18/121
Latitude: 33.982434276
Longitude: 118.428211352

Convergence: -0 14 38.70803
Scale Factor: 1.000011419

B26

Northing/Y: 1816281.939
Easting/X: 6431858.843

19/121
Latitude: 33.982477842
Longitude: 118.428177121

Convergence: -0 14 38.63779
Scale Factor: 1.000011409

B72

Northing/Y: 1816322.91
Easting/X: 6431860.195

20/121
Latitude: 33.982590439
Longitude: 118.428173238

Convergence: -0 14 38.62982
Scale Factor: 1.000011383

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B73

21/121

Northing/Y: 1816341.543
Easting/X: 6431873.82

Latitude: 33.982641798
Longitude: 118.428128557

Convergence: -0 14 38.53813
Scale Factor: 1.000011371

B81

22/121

Northing/Y: 1816281.511
Easting/X: 6431761.356

Latitude: 33.982475524
Longitude: 118.428498677

Convergence: -0 14 39.29764
Scale Factor: 1.000011410

B82

23/121

Northing/Y: 1816334.76
Easting/X: 6431715.752

Latitude: 33.982621309
Longitude: 118.428649851

Convergence: -0 14 39.60785
Scale Factor: 1.000011376

B-NO ID

24/121

Northing/Y: 1816380.048
Easting/X: 6431776.024

Latitude: 33.982746458
Longitude: 118.428851680

Convergence: -0 14 39.20120
Scale Factor: 1.000011347

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B98

25/121

Northing/Y: 1816414.072
Easting/X: 6431828.489

Latitude: 33.982840565
Longitude: 118.428279101

Convergence: -0 14 38.84706
Scale Factor: 1.000011325

B78

26/121

Northing/Y: 1816435.479
Easting/X: 6431815.621

Latitude: 33.982899237
Longitude: 118.428321848

Convergence: -0 14 38.93477
Scale Factor: 1.000011311

B42A

27/121

Northing/Y: 1816431.228
Easting/X: 6431836.159

Latitude: 33.982887796
Longitude: 118.428254043

Convergence: -0 14 38.79564
Scale Factor: 1.000011314

B45

28/121

Northing/Y: 1816496.609
Easting/X: 6431783.649

Latitude: 33.983066837
Longitude: 118.428428167

Convergence: -0 14 39.15295
Scale Factor: 1.000011272

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B44

29/121

Northing/Y: 1816461.218
Easting/X: 6431746.173

Latitude: 33.982969150
Longitude: 118.428551285

Convergence: -0 14 39.40559
Scale Factor: 1.000011295

B12

30/121

Northing/Y: 1816452.379
Easting/X: 6431763.098

Latitude: 33.982945060
Longitude: 118.428495334

Convergence: -0 14 39.29078
Scale Factor: 1.000011301

B13

31/121

Northing/Y: 1816443.035
Easting/X: 6431757.285

Latitude: 33.982919316
Longitude: 118.428514376

Convergence: -0 14 39.32985
Scale Factor: 1.000011307

B11

32/121

Northing/Y: 1816479.138
Easting/X: 6431759.954

Latitude: 33.983018552
Longitude: 118.428506080

Convergence: -0 14 39.31283
Scale Factor: 1.000011284

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B43A

33/121

Northing/Y: 1816435.8
Easting/X: 6431776.882

Latitude: 33.982899665
Longitude: 118.428449634

Convergence: -0 14 39.19700
Scale Factor: 1.000011311

B83

34/121

Northing/Y: 1816405.633
Easting/X: 6431737.981

Latitude: 33.982816316
Longitude: 118.428577525

Convergence: -0 14 39.45944
Scale Factor: 1.000011330

B90

35/121

Northing/Y: 1816425.832
Easting/X: 6431700.335

Latitude: 33.982871378
Longitude: 118.428701985

Convergence: -0 14 39.71483
Scale Factor: 1.000011318

B89

36/121

Northing/Y: 1816334.199
Easting/X: 6431662.316

Latitude: 33.982619141
Longitude: 118.428826102

Convergence: -0 14 39.96953
Scale Factor: 1.000011376

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B41A

37/121

Northing/Y: 1816306.112
Easting/X: 6431604.766

Latitude: 33.982541288
Longitude: 118.429015536

Convergence: -0 14 40.35825
Scale Factor: 1.000011394

B88

38/121

Northing/Y: 1816289.23
Easting/X: 6431562.675

Latitude: 33.982494405
Longitude: 118.429154136

Convergence: -0 14 40.64267
Scale Factor: 1.000011405

B39A

39/121

Northing/Y: 1816205.553
Easting/X: 6431734.537

Latitude: 33.982266491
Longitude: 118.428586071

Convergence: -0 14 39.47697
Scale Factor: 1.000011458

B38

40/121

Northing/Y: 1816234.154
Easting/X: 6431826.672

Latitude: 33.982346160
Longitude: 118.428282566

Convergence: -0 14 38.85417
Scale Factor: 1.000011440

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B63

41/121

Northing/Y: 1816418.812
Easting/X: 6431481.51

Latitude: 33.982849521
Longitude: 118.429423685

Convergence: -0 14 41.19579
Scale Factor: 1.000011323

B27

42/121

Northing/Y: 1816509.137
Easting/X: 6431873.542

Latitude: 33.983102314
Longitude: 118.428131829

Convergence: -0 14 38.54485
Scale Factor: 1.000011264

B79

43/121

Northing/Y: 1816383.404
Easting/X: 6431832.441

Latitude: 33.982756341
Longitude: 118.428265635

Convergence: -0 14 38.81942
Scale Factor: 1.000011344

B97

44/121

Northing/Y: 1816369.783
Easting/X: 6431855.849

Latitude: 33.982719187
Longitude: 118.428188231

Convergence: -0 14 38.66059
Scale Factor: 1.000011353

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B43

45/121

Northing/Y: 1816435.546
Easting/X: 6431777.642

Latitude: 33.982898976
Longitude: 118.428447123

Convergence: -0 14 39.19185
Scale Factor: 1.000011311

B28

46/121

Northing/Y: 1816511.964
Easting/X: 6431993.751

Latitude: 33.983111488
Longitude: 118.427735355

Convergence: -0 14 37.73127
Scale Factor: 1.000011262

B28A

47/121

Northing/Y: 1816512.668
Easting/X: 6431994.489

Latitude: 33.983113431
Longitude: 118.427732931

Convergence: -0 14 37.72629
Scale Factor: 1.000011262

B3

48/121

Northing/Y: 1816471.787
Easting/X: 6431997.832

Latitude: 33.983001137
Longitude: 118.427721330

Convergence: -0 14 37.70249
Scale Factor: 1.000011288

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B37A

49/121

Northing/Y: 1816471.303
Easting/X: 6431998.884

Latitude: 33.982999819
Longitude: 118.427717853

Convergence: -0 14 37.69535
Scale Factor: 1.000011288

B75

50/121

Northing/Y: 1816504.692
Easting/X: 6431950.875

Latitude: 33.983091005
Longitude: 118.427876681

Convergence: -0 14 38.02127
Scale Factor: 1.000011267

B100

51/121

Northing/Y: 1816480.78
Easting/X: 6431919.301

Latitude: 33.983024929
Longitude: 118.427980493

Convergence: -0 14 38.23430
Scale Factor: 1.000011282

B190

52/121

Northing/Y: 1816455.132
Easting/X: 6431878.795

Latitude: 33.982953979
Longitude: 118.428113743

Convergence: -0 14 38.50773
Scale Factor: 1.000011299

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B99

53/121

Northing/Y: 1816454.999
Easting/X: 6431878.71

Latitude: 33.982953613
Longitude: 118.428114021

Convergence: -0 14 38.50831
Scale Factor: 1.000011299

B77

54/121

Northing/Y: 1816430.86
Easting/X: 6431845.65

Latitude: 33.982886896
Longitude: 118.428222731

Convergence: -0 14 38.73138
Scale Factor: 1.000011314

B101

55/121

Northing/Y: 1816475.655
Easting/X: 6431971.728

Latitude: 33.983011460
Longitude: 118.427807489

Convergence: -0 14 37.87929
Scale Factor: 1.000011285

B50

56/121

Northing/Y: 1816582.204
Easting/X: 6431878.902

Latitude: 33.983303152
Longitude: 118.428115175

Convergence: -0 14 38.51067
Scale Factor: 1.000011218

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B74

57/121

Northing/Y: 1816578.928
Easting/X: 6431910.991

Latitude: 33.983294526
Longitude: 118.428009282

Convergence: -0 14 38.29338
Scale Factor: 1.000011220

B37

58/121

Northing/Y: 1816615.343
Easting/X: 6431864.378

Latitude: 33.983394042
Longitude: 118.428163549

Convergence: -0 14 38.60994
Scale Factor: 1.000011197

B3A

59/121

Northing/Y: 1816616.28
Easting/X: 6431863.836

Latitude: 33.983396611
Longitude: 118.428165350

Convergence: -0 14 38.61363
Scale Factor: 1.000011196

B51

60/121

Northing/Y: 1816607.747
Easting/X: 6431840.179

Latitude: 33.983372886
Longitude: 118.428243263

Convergence: -0 14 38.77352
Scale Factor: 1.000011201

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B52

61/121

Northing/Y: 1816652.937
Easting/X: 6431829.897

Latitude: 33.983496940
Longitude: 118.428277814

Convergence: -0 14 38.84442
Scale Factor: 1.000011173

B2

62/121

Northing/Y: 1816694.826
Easting/X: 6431809.251

Latitude: 33.983611802
Longitude: 118.428346505

Convergence: -0 14 38.98537
Scale Factor: 1.000011146

B53

63/121

Northing/Y: 1816604.05
Easting/X: 6431800.367

Latitude: 33.983362262
Longitude: 118.428374533

Convergence: -0 14 39.04289
Scale Factor: 1.000011204

B4

64/121

Northing/Y: 1816605.686
Easting/X: 6431782.349

Latitude: 33.983366546
Longitude: 118.428433989

Convergence: -0 14 39.16489
Scale Factor: 1.000011203

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B65

65/121

Northing/Y: 1816599.74
Easting/X: 6431769.05

Latitude: 33.983350052
Longitude: 118.428477773

Convergence: -0 14 39.25474
Scale Factor: 1.000011207

B5

66/121

Northing/Y: 1816593.291
Easting/X: 6431757.306

Latitude: 33.983332193
Longitude: 118.428516420

Convergence: -0 14 39.33405
Scale Factor: 1.000011211

B6

67/121

Northing/Y: 1816582.614
Easting/X: 6431759.982

Latitude: 33.983302886
Longitude: 118.428507443

Convergence: -0 14 39.31562
Scale Factor: 1.000011218

B46

68/121

Northing/Y: 1816572.029
Easting/X: 6431755.298

Latitude: 33.983273746
Longitude: 118.428522745

Convergence: -0 14 39.34702
Scale Factor: 1.000011224

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B54

69/121

Northing/Y: 1816581.147
Easting/X: 6431806.776

Latitude: 33.983299403
Longitude: 118.428353071

Convergence: -0 14 38.99885
Scale Factor: 1.000011219

B55

70/121

Northing/Y: 1816530.189
Easting/X: 6431782.61

Latitude: 33.983159097
Longitude: 118.428432067

Convergence: -0 14 39.16095
Scale Factor: 1.000011251

B55A

71/121

Northing/Y: 1816529.111
Easting/X: 6431783.232

Latitude: 33.983156142
Longitude: 118.428430000

Convergence: -0 14 39.15671
Scale Factor: 1.000011252

B7

72/121

Northing/Y: 1816555.907
Easting/X: 6431803.947

Latitude: 33.983230015
Longitude: 118.428362047

Convergence: -0 14 39.01727
Scale Factor: 1.000011235

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B9

73/121

Northing/Y: 1816544.928
Easting/X: 6431814.351

Latitude: 33.983199668
Longitude: 118.428327575

Convergence: -0 14 38.94653
Scale Factor: 1.000011242

B8

74/121

Northing/Y: 1816586.954
Easting/X: 6431840.107

Latitude: 33.983315750
Longitude: 118.428243209

Convergence: -0 14 38.77340
Scale Factor: 1.000011215

B10

75/121

Northing/Y: 1816566.906
Easting/X: 6431846.564

Latitude: 33.983260737
Longitude: 118.428221628

Convergence: -0 14 38.72912
Scale Factor: 1.000011227

B49

76/121

Northing/Y: 1816553.964
Easting/X: 6431862.683

Latitude: 33.983225364
Longitude: 118.428168277

Convergence: -0 14 38.61964
Scale Factor: 1.000011236

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B48A

77/121

Northing/Y: 1816522.875
Easting/X: 6431845.517

Latitude: 33.983139736
Longitude: 118.428224463

Convergence: -0 14 38.73494
Scale Factor: 1.000011256

B48

78/121

Northing/Y: 1816522.265
Easting/X: 6431846.27

Latitude: 33.983138068
Longitude: 118.428221971

Convergence: -0 14 38.72982
Scale Factor: 1.000011256

B47

79/121

Northing/Y: 1816500.051
Easting/X: 6431819.312

Latitude: 33.983076712
Longitude: 118.428310580

Convergence: -0 14 38.91165
Scale Factor: 1.000011270

B67

80/121

Northing/Y: 1816411.324
Easting/X: 6431849.584

Latitude: 33.982833261
Longitude: 118.428209480

Convergence: -0 14 38.70419
Scale Factor: 1.000011327

Remark:

DMC-IRVINE
PANAMA ST. LA
13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B68

81/121

Northing/Y: 1816479.817
Easting/X: 6431947.413

Latitude: 33.983022612
Longitude: 118.427887751

Convergence: -0 14 38.04399
Scale Factor: 1.000011283

B70-B70A

82/121

Northing/Y: 1816383.453
Easting/X: 6431937.149

Latitude: 33.982757701
Longitude: 118.427920254

Convergence: -0 14 38.11069
Scale Factor: 1.000011344

B62

83/121

Northing/Y: 1816434.013
Easting/X: 6431901.18

Latitude: 33.982896210
Longitude: 118.428039609

Convergence: -0 14 38.35561
Scale Factor: 1.000011312

B69

84/121

Northing/Y: 1816332.56
Easting/X: 6431899.098

Latitude: 33.982617410
Longitude: 118.428045051

Convergence: -0 14 38.36678
Scale Factor: 1.000011377

Remark:

Corpscon v6.0.1, U.S. Army Corps of Engineers

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B61

85/121

Northing/Y: 1816427.921
Easting/X: 6431967.998

Latitude: 33.982880252
Longitude: 118.427819122

Convergence: -0 14 37.90316
Scale Factor: 1.000011316

B34

86/121

Northing/Y: 1816748.637
Easting/X: 6431854.182

Latitude: 33.983760191
Longitude: 118.428199054

Convergence: -0 14 38.68280
Scale Factor: 1.000011112

B36

87/121

Northing/Y: 1816838.983
Easting/X: 6431922.747

Latitude: 33.984009249
Longitude: 118.427974157

Convergence: -0 14 38.22130
Scale Factor: 1.000011054

B36A

88/121

Northing/Y: 1816839.57
Easting/X: 6431923.594

Latitude: 33.984010872
Longitude: 118.427971371

Convergence: -0 14 38.21558
Scale Factor: 1.000011054

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B35

89/121

Northing/Y: 1816749.535
Easting/X: 6431998.646

Latitude: 33.983764349
Longitude: 118.427722543

Convergence: -0 14 37.70498
Scale Factor: 1.000011111

B33

90/121

Northing/Y: 1816673.535
Easting/X: 6431896.529

Latitude: 33.983554320
Longitude: 118.428058315

Convergence: -0 14 38.39399
Scale Factor: 1.000011159

B32

91/121

Northing/Y: 1816635.365
Easting/X: 6431946.788

Latitude: 33.983450023
Longitude: 118.427891997

Convergence: -0 14 38.05270
Scale Factor: 1.000011184

B19

92/121

Northing/Y: 1816628.609
Easting/X: 6431785.385

Latitude: 33.983429570
Longitude: 118.428424297

Convergence: -0 14 39.14501
Scale Factor: 1.000011188

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B56

93/121

Northing/Y: 1816608.935
Easting/X: 6431757.321

Latitude: 33.983375180
Longitude: 118.428516591

Convergence: -0 14 39.33440
Scale Factor: 1.000011201

B95

94/121

Northing/Y: 1816620.426
Easting/X: 6431705.551

Latitude: 33.983406149
Longitude: 118.428687518

Convergence: -0 14 39.68515
Scale Factor: 1.000011194

B18

95/121

Northing/Y: 1816673.464
Easting/X: 6431738.554

Latitude: 33.983552275
Longitude: 118.428579402

Convergence: -0 14 39.46329
Scale Factor: 1.000011160

B17

96/121

Northing/Y: 1816697.832
Easting/X: 6431728.918

Latitude: 33.983619121
Longitude: 118.428611529

Convergence: -0 14 39.52921
Scale Factor: 1.000011144

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B16

97/121

Northing/Y: 1816506.885
Easting/X: 6431749.467

Latitude: 33.983094673
Longitude: 118.428541062

Convergence: -0 14 39.38461
Scale Factor: 1.000011266

B14

98/121

Northing/Y: 1816496.745
Easting/X: 6431735.084

Latitude: 33.983066642
Longitude: 118.428588362

Convergence: -0 14 39.48167
Scale Factor: 1.000011272

B58

99/121

Northing/Y: 1816496.739
Easting/X: 6431710.897

Latitude: 33.983066342
Longitude: 118.428668144

Convergence: -0 14 39.64539
Scale Factor: 1.000011273

B20

100/121

Northing/Y: 1816473.841
Easting/X: 6431736.103

Latitude: 33.983003717
Longitude: 118.428584679

Convergence: -0 14 39.47412
Scale Factor: 1.000011287

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B15

101/121

Northing/Y: 1816486.782
Easting/X: 6431753.526

Latitude: 33.983039481
Longitude: 118.428527391

Convergence: -0 14 39.35656
Scale Factor: 1.000011279

B57

102/121

Northing/Y: 1816464.995
Easting/X: 6431683.386

Latitude: 33.982978792
Longitude: 118.428758443

Convergence: -0 14 39.83069
Scale Factor: 1.000011293

B57A

103/121

Northing/Y: 1816463.786
Easting/X: 6431683.405

Latitude: 33.982975470
Longitude: 118.428758363

Convergence: -0 14 39.83052
Scale Factor: 1.000011294

B29

104/121

Northing/Y: 1816537.015
Easting/X: 6431654.034

Latitude: 33.983176347
Longitude: 118.428856275

Convergence: -0 14 40.03144
Scale Factor: 1.000011247

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B59A

106/121

Northing/Y: 1816537.695
Easting/X: 6431654.774

Latitude: 33.983178224
Longitude: 118.428853844

Convergence: -0 14 40.02645
Scale Factor: 1.000011247

B93

106/121

Northing/Y: 1816555.677
Easting/X: 6431661.09

Latitude: 33.983227709
Longitude: 118.428833263

Convergence: -0 14 39.98422
Scale Factor: 1.000011235

B30

107/121

Northing/Y: 1816575.023
Easting/X: 6431647.974

Latitude: 33.983280715
Longitude: 118.428876799

Convergence: -0 14 40.07356
Scale Factor: 1.000011223

B23

108/121

Northing/Y: 1816630.57
Easting/X: 6431649.812

Latitude: 33.983433370
Longitude: 118.42871518

Convergence: -0 14 40.06272
Scale Factor: 1.000011187

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B60A

109/121

Northing/Y: 1816631.054
Easting/X: 6431650.974

Latitude: 33.983434713
Longitude: 118.428867692

Convergence: -0 14 40.05487
Scale Factor: 1.000011187

B91

110/121

Northing/Y: 1816474.889
Easting/X: 6431642.174

Latitude: 33.983005496
Longitude: 118.428894521

Convergence: -0 14 40.10993
Scale Factor: 1.000011287

B21

111/121

Northing/Y: 1816451.67
Easting/X: 6431582.453

Latitude: 33.982940394
Longitude: 118.429091186

Convergence: -0 14 40.51349
Scale Factor: 1.000011302

B22

112/121

Northing/Y: 1816463.242
Easting/X: 6431545.11

Latitude: 33.982972354
Longitude: 118.429214525

Convergence: -0 14 40.76659
Scale Factor: 1.000011294

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B92

113/121

Northing/Y: 1816484.801
Easting/X: 6431593.886

Latitude: 33.983032166
Longitude: 118.429053940

Convergence: -0 14 40.43706
Scale Factor: 1.000011280

B31

114/121

Northing/Y: 1816551.077
Easting/X: 6431574.959

Latitude: 33.983214059
Longitude: 118.429117305

Convergence: -0 14 40.56709
Scale Factor: 1.000011238

B94

115/121

Northing/Y: 1816540.404
Easting/X: 6431611.057

Latitude: 33.983185155
Longitude: 118.428998084

Convergence: -0 14 40.32244
Scale Factor: 1.000011245

B25/25A

116/121

Northing/Y: 1816343.954
Easting/X: 6431656.335

Latitude: 33.982645876
Longitude: 118.428845968

Convergence: -0 14 40.01029
Scale Factor: 1.000011370

Remark:

DMC-IRVINE
PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83
0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B66

117/121

Northing/Y: 1816484.559
Easting/X: 6431843.539

Latitude: 33.983034427
Longitude: 118.428230449

Convergence: -0 14 38.74722
Scale Factor: 1.000011280

B76

118/121

Northing/Y: 1816519.523
Easting/X: 6431904.363

Latitude: 33.983131214
Longitude: 118.428030311

Convergence: -0 14 38.33653
Scale Factor: 1.000011257

B71

119/121

Northing/Y: 1816306.095
Easting/X: 6431873.588

Latitude: 33.982544391
Longitude: 118.428128824

Convergence: -0 14 38.53868
Scale Factor: 1.000011394

B24

120/121

Northing/Y: 1816382.434
Easting/X: 6431541.747

Latitude: 33.982750268
Longitude: 118.429224480

Convergence: -0 14 40.78702
Scale Factor: 1.000011346

Remark:

DMC-IRVINE

PANAMA ST. LA

13 February 2015

INPUT

State Plane, NAD83

0405 - California 5, U.S. Feet

OUTPUT

Geographic, NAD83

B24A

121/121

Northing/Y: 1816381.832

Latitude: 33.982748618

Easting/X: 6431542.112

Longitude: 118.429223268

Convergence: -0 14 40.78453

Scale Factor: 1.000011346

Remark:

GEO_XY FORMAT- NORTHING AND EASTING NAD83 DATUM-UNITS= US FEET

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	NORTHING	EASTING	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_C	GPS_EQUIP_TYPE
	GW-1	MW	6/14/2013	1816243.7530	6431595.5580	CGPS	NAD83	40	DMc	Lieca Smart Rover
	GW-2	MW	6/14/2013	1816751.0080	6431795.9590	CGPS	NAD83	40	DMc	Lieca Smart Rover
	GW-3	MW	6/14/2013	1816324.0710	6431884.3200	CGPS	NAD83	40	DMc	Lieca Smart Rover
	MW-7	MW	2/4/2015	1816215.0441	6431941.4782	CGPS	NAD83	40	DMc	Lieca Smart Rover
	MW-8	MW	2/4/2015	1816383.3098	6432049.4112	CGPS	NAD83	40	DMc	Lieca Smart Rover

TABLE 1: GEO_XY FORMAT- Latitude and Longitude in DECIMAL DEGREES Format

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGTITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_C	GPS_EQUIP_TYPE
	GW-1	MW	6/14/2013	33.9823698	118.4290450	CGPS	NAD83	40	DMc	Lieca Smart Rover
	GW-2	MW	6/14/2013	33.9837660	118.4283911	CGPS	NAD83	40	DMc	Lieca Smart Rover
	GW-3	MW	6/14/2013	33.9825939	118.4280937	CGPS	NAD83	40	DMc	Lieca Smart Rover
	MW-7	MW	2/4/2015	33.9822950	118.4279036	CGPS	NAD83	40	DMc	Lieca Smart Rover
	MW-8	MW	2/4/2015	33.9827586	118.4275500	CGPS	NAD83	40	DMc	Lieca Smart Rover

TABLE 5 GEO_Z FORMAT:_ NOTE: ELEVATION TAKEN FROM NOTCH AT TOP OF EACH CASINGS

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC
	GW-1	6/14/2013	12.3260	DIG	NGVD 88	0.1	DMc Eng.		CITY OF LA BM# 11028
	GW-2	6/14/2013	11.8640	DIG	NGVD 88	0.1	DMc Eng.		CITY OF LA BM# 11028
	GW-3	6/14/2013	11.5290	DIG	NGVD 88	0.1	DMc Eng.		CITY OF LA BM# 11028
	MW-7	2/4/2015	11.6679	DIG	NGVD 88	0.1	DMc Eng.		CITY OF LA BM# 11028
	MW-8	2/4/2015	12.2368	DIG	NGVD 88	0.1	DMc Eng.		CITY OF LA BM# 11028

APPENDIX G

Well Purging Records

Project Name & No. MCGU-14-4695

Water Level Instrument *Solinst*

Measured by JRS

DO Meter Calibrated by Pire Env Elevation _____

Groundwater Monitoring Well Purging Record

Project: Culver Blvd GRM Project No.: ML64-14-4695

Date: 2/2/14 Weather: Sunny

Sample Team: JBORS Well Measured By: JB

Well No.: GW1 Well Condition: Good

Does this wellhead require repair? ☐ yes ☒ no Explanation: _____

Does this well require bolts and/or well locking Explanation: _____

caps? ☐ yes ☒ no _____

Static depth to water from top of casing A: 12.20 ft. Time: 845

Top of casing to bottom of casing B: 20.15 ft.

Feet of water in well H: _____ ft. H = B - A

Diameter D: _____ in.

Volume of water in well V: _____ gal. $V = \pi D^2 H / 77.01$

Three well volumes Vx3: _____ gal.

Purge time begin: 1330 Purge time finish: 1405

Purging/bailing technique: Low Flow Purging/bailing equipment: Hand Bail

Average pumping rate: < 200 ml/min Volume of water removed: ~2 gal

Depth to water from top of casing (at time of sampling): 12.20 Sampling time: 1405

Time	pH	Cond. (µs/cm)	Temp. (°C)	Turb. (NTU)	DO (mg/L)	ORP (mV)	TDS (ppm)	Observations
1330	7.21	1.14	21.59	0.0	1.05	155		12.22
1335	7.20	1.13	21.58	0.0	0.70	159		12.23
1340	7.09	1.10	21.58	0.0	0.25	159		12.23
1345	7.05	1.10	22.20	0.0	0.11	147		12.23 12.23
1350	7.09	1.10	22.40	0.0	0.05	145		12.23
1355	7.05	1.10	22.53	0.0	0.00	145		12.23
1400	7.06	1.10	22.79	0.0	0.00	142		12.22
1405	7.05	1.10	22.81	0.0	0.00	141		12.23

Groundwater Monitoring Well Purging Record

Project: Culver Blat DATA GWM Project No.: MCGL-14-4895

Date: 2/2/15 Weather: Sunny

Sample Team: JB + RS Well Measured By: JB

Well No.: GW2 Well Condition: Good

Does this wellhead require repair? ☐ yes ☒ no Explanation: _____

Does this well require bolts and/or well locking Explanation: _____

caps? ☐ yes ☒ no

Static depth to water from top of casing A: 9.85 ft. Time: 830

Top of casing to bottom of casing B: 19.79 ft.

Feet of water in well H: _____ ft. H = B - A

Diameter D: _____ in.

Volume of water in well V: _____ gal. $V = \pi D^2 H / 77.01$

Three well volumes Vx3: _____ gal.

Purge time begin: 1240 Purge time finish: 1315

Purging/bailing technique: Low Flow Purging/bailing equipment: Hand Bail

Average pumping rate: < 300 ml/min Volume of water removed: ~2 gal

Depth to water from top of casing (at time of sampling): 9.85 Sampling time: 1315

Time	pH	Cond. (µs/cm)	Temp. (°C)	Turb. (NTU)	DO (mg/L)	ORP (mV)	TDS (ppm)	Observations
1240	7.45	1.10	21.53	1.3	1.40	152		9.85
1245	7.00	1.10	21.63	0.5	0.98	158		9.90
1250	7.14	1.09	21.45	0.0	0.40	159		9.90
1255	7.02	1.10	20.99	0.0	0.18	153		9.90
1300	7.01	1.11	20.95	0.0	0.06	152		9.90
1305	7.00	1.11	20.95	0.0	0.02	151		9.90
1310	6.99	1.11	21.02	0.0	0.00	151		9.90
1315	7.01	1.11	20.95	0.0	0.00	148		9.89

Groundwater Monitoring Well Purging Record

Project: Culver Blvd CWM Project No.: MC60-14-485

Date: 2/2/15 Weather: Sunny

Sample Team: RS/JS Well Measured By: JB

Well No.: 6WS Well Condition: Good

Does this wellhead require repair? ☐ yes ☒ no Explanation: _____

Does this well require bolts and/or well locking Explanation: _____

caps? ☐ yes ☒ no

Static depth to water from top of casing A: 10.71 ft. Time: 900

Top of casing to bottom of casing B: 19.77 ft.

Feet of water in well H: _____ ft. H = B - A

Diameter D: _____ in.

Volume of water in well V: _____ gal. $V = \pi D^2 H / 77.01$

Three well volumes Vx3: _____ gal.

Purge time begin: 1420 Purge time finish: 1455

Purging/bailing technique: Low Flow Purging/bailing equipment: Hand Railer

Average pumping rate: < 200 gal/min Volume of water removed: ~2 gal

Depth to water from top of casing (at time of sampling): 10.71 Sampling time: 1500/1510

Time	pH	Cond. (µs/cm)	Temp. (°C)	Turb. (NTU)	DO (mg/L)	ORP (mV)	TDS (ppm)	Observations
1420	7.54	0.708	21.38	0.0	4.48	148		10.84
1425	7.37	0.697	20.38	0.0	4.11	155		10.82
1430	7.26	0.703	20.34	0.0	3.87	162		10.87
1435	7.14	0.706	21.23	0.0	3.13	184		10.79
1440	7.01	0.707	20.98	0.0	3.70	178		10.79
1445	7.10	0.710	20.48	0.0	3.71	171		10.80
1450	7.09	0.711	20.48	0.0	3.70	172		10.79
1455	7.11	0.711	20.46	0.0	3.74	174		10.80
1500								

Groundwater Monitoring Well Purging Record

Project: Culver Blvd GWM Project No.: MC64-14-4695

Date: 7/2/15 Weather: Sunny

Sample Team: JBORS Well Measured By: JB

Well No.: MW7 Well Condition: Good

Does this wellhead require repair? ☐ yes ☒ no Explanation: _____

Does this well require bolts and/or well locking Explanation: _____

caps? ☐ yes ☒ no _____

Static depth to water from top of casing A: 11.17 ft. Time: 945

Top of casing to bottom of casing B: 19.33 ft.

Feet of water in well H: _____ ft. H = B - A

Diameter D: _____ in.

Volume of water in well V: _____ gal. $V = \pi D^2 H / 77.01$

Three well volumes Vx3: _____ gal.

Purge time begin: 1000 Purge time finish: 1040

Purging/bailing technique: Low Flow Purging/bailing equipment: Hand Bailor

Average pumping rate: < 300 w/min Volume of water removed: ~ 2 gal

Depth to water from top of casing (at time of sampling): 11.12 Sampling time: 1045

Time	pH	Cond. (µs/cm)	Temp. (°C)	Turb. (NTU)	DO (mg/L)	ORP (mV)	TDS (ppm)	Observations
1000	7.29	1.09	20.72	11.1	2.20 4.34	93		11.41
1005	7.05	1.08	21.01	15.3	3.44	121		11.38
1010	7.09	1.08	21.02	16.6	3.76	126		11.40
1015	7.19	1.07	21.33	20.0	3.91	129		11.47
1020	7.02	1.08	21.26	19.8	3.27	140		11.37
1025	7.18	1.17	21.33	17.9	3.24	141		11.35
1030	7.18	1.07	21.60	17.0	3.10	141		11.34
1035	7.19	1.07	21.72	16.0	3.12	142		11.33
1040	7.17	1.07	21.77	16.0	3.20	142		11.33

Groundwater Monitoring Well Purging Record

Project: MCGU-14-4695 Coker Blvd GWM Project No.: _____

Date: 2/2/15 Weather: Sunny

Sample Team: JRS Well Measured By: RS

Well No.: MW 8 Well Condition: Good

Does this wellhead require repair? ☐ yes ☒ no Explanation: _____

Does this well require bolts and/or well locking Explanation: _____

caps? ☐ yes ☒ no

Static depth to water from top of casing A: 11.08 ft. Time: 930

Top of casing to bottom of casing B: 19.08 ft.

Feet of water in well H: _____ ft. H = B - A

Diameter D: _____ in.

Volume of water in well V: _____ gal. $V = \pi D^2 H / 77.01$

Three well volumes Vx3: _____ gal.

Purge time begin: 1100 Purge time finish: 1145

Purging/bailing technique: Low Flow Purging/bailing equipment: Hand Bailer

Average pumping rate: _____ Volume of water removed: ~2.33 gal

Depth to water from top of casing (at time of sampling): _____ Sampling time: 1145

Time	pH	Cond. (µs/cm)	Temp. (°C)	Turb. (NTU)	DO (mg/L)	ORP (mV)	TDS (ppm)	Observations
1100	7.45	1.07	21.71	13.4	1.68	151		11.16
1105	7.27	1.06	21.90	13.5	0.62	153		11.16
1110	7.21	1.05	22.16	14.1	0.39	147		11.10
1115	7.09	1.06	22.45	15.9	0.18	142		11.09
1120	7.12	1.05	22.49 22.49	15.4	0.15	136		11.09
1125	7.12	1.05	22.79	14.6	0.12	132		11.09
1130	7.11	1.06	22.90	13.7	0.09	132		11.10
1135	7.10	1.05	22.80	12.7	0.05	133		11.12
1140	7.11	1.05	22.86	12.9	0.05	129		11.11
1145	7.11	1.05	22.83	12.9	0.05	130		11.10

APPENDIX H

Laboratory Analytical Reports – Groundwater Samples



WORK ORDER NUMBER: 15-02-0071

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Alta Environmental

Client Project Name: MCGU-14-4695:4

Attention: Jonathan Barkman
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Vikas Patel

Approved for release on 02/12/2015 by:
Vikas Patel
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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 Work Order Number: 15-02-0071

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Work Order Narrative

Work Order: 15-02-0071Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/02/15. They were assigned to Work Order 15-02-0071.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-02-0071
 Project Name: MCGU-14-4695:4
 Received: 02/02/15

Attn: Jonathan Barkman

Page 1 of 6

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
GW1 (15-02-0071-1)						
Boron	0.482		0.0200	mg/L	EPA 200.7	N/A
Chloride	120	E	1.0	mg/L	EPA 300.0	N/A
Chloride	93		5.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	3.3		0.10	mg/L	EPA 300.0	N/A
Sulfate	430	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	330		5.0	mg/L	EPA 300.0	N/A
Manganese	0.452		0.00500	mg/L	EPA 6010B	EPA 3005A Filt.
Barium	0.0317		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0413		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0151		0.0150	mg/L	EPA 6010B	EPA 3010A Total
Thallium	0.00488	J	0.00291*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00459	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.0170		0.0100	mg/L	EPA 6010B	EPA 3010A Total
c-1,2-Dichloroethene	23		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	21		1.0	ug/L	EPA 8260B	EPA 5030C
1,1,2-Trichloro-1,2,2-Trifluoroethane	120		10	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	8.4		1.0	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	37900		17.0	ug/L	RSK-175M	N/A
Methane	0.321	J	0.0400*	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	407		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	407		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	985		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	43		2.5	mg/L	SM 5310 D	N/A

* MDL is shown

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-02-0071
 Project Name: MCGU-14-4695:4
 Received: 02/02/15

Attn: Jonathan Barkman

Page 2 of 6

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
GW2 (15-02-0071-2)						
Boron	0.443		0.0200	mg/L	EPA 200.7	N/A
Chloride	110	E	1.0	mg/L	EPA 300.0	N/A
Chloride	88		5.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	2.7		0.10	mg/L	EPA 300.0	N/A
Sulfate	450	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	350		5.0	mg/L	EPA 300.0	N/A
Manganese	0.0482		0.00500	mg/L	EPA 6010B	EPA 3005A Filt.
Barium	0.0194		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0151		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0109	J	0.00699*	mg/L	EPA 6010B	EPA 3010A Total
Thallium	0.00325	J	0.00291*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00363	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.0937		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Trichloroethene	0.66	J	0.37*	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	34300		17.0	ug/L	RSK-175M	N/A
Methane	0.0470	J	0.0400*	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	413		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	413		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	995		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	42		2.5	mg/L	SM 5310 D	N/A

* MDL is shown



Calscience

Detections Summary

Client: Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Work Order: 15-02-0071
Project Name: MCGU-14-4695:4
Received: 02/02/15

Attn: Jonathan Barkman

Page 3 of 6

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
GW3 (15-02-0071-3)						
Boron	0.427		0.0200	mg/L	EPA 200.7	N/A
Chloride	40		1.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	10	E	0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	8.9		0.50	mg/L	EPA 300.0	N/A
Sulfate	240	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	180		5.0	mg/L	EPA 300.0	N/A
Barium	0.0507		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0225		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0116	J	0.00699*	mg/L	EPA 6010B	EPA 3010A Total
Thallium	0.00486	J	0.00291*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00400	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.0100		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Tetrachloroethene	140		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.6		1.0	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	22100		17.0	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	285		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	285		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	605		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	30		2.5	mg/L	SM 5310 D	N/A

Return to Contents

* MDL is shown

Detections Summary

Client: Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Work Order: 15-02-0071
 Project Name: MCGU-14-4695:4
 Received: 02/02/15

Attn: Jonathan Barkman

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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW7 (15-02-0071-4)						
Boron	0.652		0.0200	mg/L	EPA 200.7	N/A
Chloride	110	E	1.0	mg/L	EPA 300.0	N/A
Chloride	93		5.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	10	E	0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	9.4		0.50	mg/L	EPA 300.0	N/A
Sulfate	350	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	280		5.0	mg/L	EPA 300.0	N/A
Manganese	0.0551		0.00500	mg/L	EPA 6010B	EPA 3005A Filt.
Barium	0.0391		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0162		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0152		0.0150	mg/L	EPA 6010B	EPA 3010A Total
Thallium	0.00502	J	0.00291*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00427	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.0304		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Bromodichloromethane	0.22	J	0.21*	ug/L	EPA 8260B	EPA 5030C
Chloroform	0.61	J	0.46*	ug/L	EPA 8260B	EPA 5030C
Dibromochloromethane	0.32	J	0.25*	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	4.5		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	0.69	J	0.37*	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	30500		17.0	ug/L	RSK-175M	N/A
Methane	0.0470	J	0.0400*	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	427		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	427		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	980		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	44		2.5	mg/L	SM 5310 D	N/A

* MDL is shown



Calscience

Detections Summary

Client: Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Work Order: 15-02-0071
Project Name: MCGU-14-4695:4
Received: 02/02/15

Attn: Jonathan Barkman

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Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW8 (15-02-0071-5)						
Boron	0.575		0.0200	mg/L	EPA 200.7	N/A
Chloride	95		1.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	8.0		0.10	mg/L	EPA 300.0	N/A
Sulfate	370	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	270		5.0	mg/L	EPA 300.0	N/A
Manganese	0.237		0.00500	mg/L	EPA 6010B	EPA 3005A Filt.
Barium	0.0263		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0239		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0162		0.0150	mg/L	EPA 6010B	EPA 3010A Total
Thallium	0.00433	J	0.00291*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00468	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.00486	J	0.00352*	mg/L	EPA 6010B	EPA 3010A Total
Trichloroethene	1.2		1.0	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	34700		17.0	ug/L	RSK-175M	N/A
Methane	0.161	J	0.0400*	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	432		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	432		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	925		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	46		2.5	mg/L	SM 5310 D	N/A
GW3 Dup (15-02-0071-6)						
Boron	0.419		0.0200	mg/L	EPA 200.7	N/A
Chloride	40		1.0	mg/L	EPA 300.0	N/A
Nitrate (as N)	10	E	0.10	mg/L	EPA 300.0	N/A
Nitrate (as N)	8.9		0.50	mg/L	EPA 300.0	N/A
Sulfate	240	E	1.0	mg/L	EPA 300.0	N/A
Sulfate	190		5.0	mg/L	EPA 300.0	N/A
Barium	0.0484		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0205		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Selenium	0.0132	J	0.00699*	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.00395	J	0.00244*	mg/L	EPA 6010B	EPA 3010A Total
Zinc	0.0130		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Tetrachloroethene	140		1.0	ug/L	EPA 8260B	EPA 5030C
Trichloroethene	3.4		1.0	ug/L	EPA 8260B	EPA 5030C
Carbon Dioxide	23600		17.0	ug/L	RSK-175M	N/A
Alkalinity, Total (as CaCO ₃)	301		5.00	mg/L	SM 2320B	N/A
Bicarbonate (as CaCO ₃)	301		5.00	mg/L	SM 2320B	N/A
Solids, Total Dissolved	645		1.00	mg/L	SM 2540 C	N/A
Carbon, Total Organic	30		2.5	mg/L	SM 5310 D	N/A

* MDL is shown

Detections Summary

Client: Alta Environmental Work Order: 15-02-0071
3777 Long Beach Blvd., Annex Building Project Name: MCGU-14-4695:4
Long Beach, CA 90802-3335 Received: 02/02/15

Attn: Jonathan Barkman

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Client SampleID

<u>Analyte</u>	<u>Result</u>	<u>Qualifiers</u>	<u>RL</u>	<u>Units</u>	<u>Method</u>	<u>Extraction</u>
EB (15-02-0071-8)						
2-Butanone	13		10	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.


Return to Contents

* MDL is shown



Calscience

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-F	02/02/15 14:05	Aqueous	GC 14	N/A	02/03/15 11:28	150203L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	37900	17.0	0.0547	10.0	

GW2	15-02-0071-2-F	02/02/15 13:15	Aqueous	GC 14	N/A	02/03/15 11:47	150203L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	34300	17.0	0.0547	10.0	

GW3	15-02-0071-3-F	02/02/15 15:00	Aqueous	GC 14	N/A	02/03/15 12:06	150203L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	22100	17.0	0.0547	10.0	

MW7	15-02-0071-4-F	02/02/15 10:45	Aqueous	GC 14	N/A	02/03/15 12:25	150203L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	30500	17.0	0.0547	10.0	

MW8	15-02-0071-5-F	02/02/15 11:45	Aqueous	GC 14	N/A	02/03/15 12:43	150203L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	34700	17.0	0.0547	10.0	

GW3 Dup	15-02-0071-6-F	02/02/15 15:10	Aqueous	GC 14	N/A	02/03/15 13:04	150203L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	23600	17.0	0.0547	10.0	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: RSK-175M Units: ug/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-659-771	N/A	Aqueous	GC 14	N/A	02/03/15 10:12	150203L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon Dioxide	ND	1.70	0.00547	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-D	02/02/15 14:05	Aqueous	GC 61	N/A	02/04/15 16:34	150204L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	0.321	1.00	0.0400	1.00	J

GW2	15-02-0071-2-D	02/02/15 13:15	Aqueous	GC 61	N/A	02/04/15 16:58	150204L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	0.0470	1.00	0.0400	1.00	J

GW3	15-02-0071-3-D	02/02/15 15:00	Aqueous	GC 61	N/A	02/04/15 17:24	150204L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	ND	1.00	0.0400	1.00	

MW7	15-02-0071-4-D	02/02/15 10:45	Aqueous	GC 61	N/A	02/04/15 17:46	150204L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	0.0470	1.00	0.0400	1.00	J

MW8	15-02-0071-5-D	02/02/15 11:45	Aqueous	GC 61	N/A	02/04/15 18:13	150204L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	0.161	1.00	0.0400	1.00	J

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3 Dup	15-02-0071-6-D	02/02/15 15:10	Aqueous	GC 61	N/A	02/04/15 18:36	150204L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	ND	1.00	0.0400	1.00	

Method Blank	099-12-661-1135	N/A	Aqueous	GC 61	N/A	02/04/15 11:02	150204L01
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Ethane	ND	1.00	0.0800	1.00	
Ethylene	ND	1.00	0.100	1.00	
Methane	ND	1.00	0.0400	1.00	



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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-I	02/02/15 14:05	Aqueous	IC 15	N/A	02/02/15 21:44	150202L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	120	1.0	0.12	1.00	E
Nitrate (as N)	3.3	0.10	0.025	1.00	
Sulfate	430	1.0	0.19	1.00	E

GW1	15-02-0071-1-I	02/02/15 14:05	Aqueous	IC 15	N/A	02/03/15 21:28	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	93	5.0	0.61	5.00	
Sulfate	330	5.0	0.94	5.00	

GW2	15-02-0071-2-I	02/02/15 13:15	Aqueous	IC 15	N/A	02/02/15 22:00	150202L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	110	1.0	0.12	1.00	E
Nitrate (as N)	2.7	0.10	0.025	1.00	
Sulfate	450	1.0	0.19	1.00	E

GW2	15-02-0071-2-I	02/02/15 13:15	Aqueous	IC 15	N/A	02/03/15 21:45	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	88	5.0	0.61	5.00	
Sulfate	350	5.0	0.94	5.00	

GW3	15-02-0071-3-I	02/02/15 15:00	Aqueous	IC 15	N/A	02/02/15 22:17	150202L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	40	1.0	0.12	1.00	
Nitrate (as N)	10	0.10	0.025	1.00	E
Sulfate	240	1.0	0.19	1.00	E

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3	15-02-0071-3-I	02/02/15 15:00	Aqueous	IC 15	N/A	02/03/15 22:02	150203L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Nitrate (as N)	8.9	0.50	0.13	5.00	
Sulfate	180	5.0	0.94	5.00	

MW7	15-02-0071-4-I	02/02/15 10:45	Aqueous	IC 15	N/A	02/02/15 22:34	150202L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Chloride	110	1.0	0.12	1.00	E
Nitrate (as N)	10	0.10	0.025	1.00	E
Sulfate	350	1.0	0.19	1.00	E

MW7	15-02-0071-4-I	02/02/15 10:45	Aqueous	IC 15	N/A	02/03/15 22:19	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Chloride	93	5.0	0.61	5.00	
Nitrate (as N)	9.4	0.50	0.13	5.00	
Sulfate	280	5.0	0.94	5.00	

MW8	15-02-0071-5-I	02/02/15 11:45	Aqueous	IC 15	N/A	02/02/15 22:51	150202L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Chloride	95	1.0	0.12	1.00	
Nitrate (as N)	8.0	0.10	0.025	1.00	
Sulfate	370	1.0	0.19	1.00	E

MW8	15-02-0071-5-I	02/02/15 11:45	Aqueous	IC 15	N/A	02/03/15 22:36	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Sulfate	270	5.0	0.94	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3 Dup	15-02-0071-6-I	02/02/15 15:10	Aqueous	IC 15	N/A	02/02/15 23:08	150202L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	40	1.0	0.12	1.00	
Nitrate (as N)	10	0.10	0.025	1.00	E
Sulfate	240	1.0	0.19	1.00	E

GW3 Dup	15-02-0071-6-I	02/02/15 15:10	Aqueous	IC 15	N/A	02/03/15 22:53	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Nitrate (as N)	8.9	0.50	0.13	5.00	
Sulfate	190	5.0	0.94	5.00	

Method Blank	099-12-906-5388	N/A	Aqueous	IC 15	N/A	02/02/15 19:59	150202L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	ND	1.0	0.12	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

Method Blank	099-12-906-5398	N/A	Aqueous	IC 15	N/A	02/03/15 20:38	150203L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Chloride	ND	1.0	0.12	1.00	
Nitrate (as N)	ND	0.10	0.025	1.00	
Sulfate	ND	1.0	0.19	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-M	02/02/15 14:05	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	407	5.00	0.848	1.00	

GW2	15-02-0071-2-M	02/02/15 13:15	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	413	5.00	0.848	1.00	

GW3	15-02-0071-3-M	02/02/15 15:00	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	285	5.00	0.848	1.00	

MW7	15-02-0071-4-M	02/02/15 10:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	427	5.00	0.848	1.00	

MW8	15-02-0071-5-M	02/02/15 11:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	432	5.00	0.848	1.00	

GW3 Dup	15-02-0071-6-M	02/02/15 15:10	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Alkalinity, Total (as CaCO ₃)	301	5.00	0.848	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 2320B Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-859-582	N/A	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Alkalinity, Total (as CaCO ₃)	ND	1.0	0.85	1.00	



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Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B
Units: mg/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-M	02/02/15 14:05	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	407	5.00	0.848	1.00	

GW2	15-02-0071-2-M	02/02/15 13:15	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	413	5.00	0.848	1.00	

GW3	15-02-0071-3-M	02/02/15 15:00	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	285	5.00	0.848	1.00	

MW7	15-02-0071-4-M	02/02/15 10:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	427	5.00	0.848	1.00	

MW8	15-02-0071-5-M	02/02/15 11:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	432	5.00	0.848	1.00	

GW3 Dup	15-02-0071-6-M	02/02/15 15:10	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Bicarbonate (as CaCO ₃)	301	5.00	0.848	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 2320B Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-861-436	N/A	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOB1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Bicarbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B
Units: mg/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-M	02/02/15 14:05	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

GW2	15-02-0071-2-M	02/02/15 13:15	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

GW3	15-02-0071-3-M	02/02/15 15:00	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

MW7	15-02-0071-4-M	02/02/15 10:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

MW8	15-02-0071-5-M	02/02/15 11:45	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

GW3 Dup	15-02-0071-6-M	02/02/15 15:10	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 2320B Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-863-368	N/A	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3B1

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	1.0	0.85	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2540 C
Units: mg/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-Q	02/02/15 14:05	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	985	1.00	0.820	1.00	

GW2	15-02-0071-2-Q	02/02/15 13:15	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	995	1.00	0.820	1.00	

GW3	15-02-0071-3-Q	02/02/15 15:00	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	605	1.00	0.820	1.00	

MW7	15-02-0071-4-Q	02/02/15 10:45	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	980	1.00	0.820	1.00	

MW8	15-02-0071-5-Q	02/02/15 11:45	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	925	1.00	0.820	1.00	

GW3 Dup	15-02-0071-6-Q	02/02/15 15:10	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	645	1.00	0.820	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 2540 C Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-180-4412	N/A	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Solids, Total Dissolved	ND	1.0	0.82	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 4500 S2 - D
Units: mg/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-H	02/02/15 14:05	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

GW2	15-02-0071-2-H	02/02/15 13:15	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

GW3	15-02-0071-3-H	02/02/15 15:00	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

MW7	15-02-0071-4-H	02/02/15 10:45	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

MW8	15-02-0071-5-H	02/02/15 11:45	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

GW3 Dup	15-02-0071-6-H	02/02/15 15:10	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Sulfide, Total	ND	0.050	0.030	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 4500 S2 - D Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-15-853-444	N/A	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Sulfide, Total	ND	0.050	0.030	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 5310 D
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-J	02/02/15 14:05	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	43	2.5	0.13	5.00	

GW2	15-02-0071-2-J	02/02/15 13:15	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	42	2.5	0.13	5.00	

GW3	15-02-0071-3-J	02/02/15 15:00	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	30	2.5	0.13	5.00	

MW7	15-02-0071-4-J	02/02/15 10:45	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	44	2.5	0.13	5.00	

MW8	15-02-0071-5-J	02/02/15 11:45	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	46	2.5	0.13	5.00	

GW3 Dup	15-02-0071-6-J	02/02/15 15:10	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	30	2.5	0.13	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: SM 5310 D Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-097-5507	N/A	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Carbon, Total Organic	ND	0.50	0.026	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 200.7
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-L	02/02/15 14:05	Aqueous	ICP 7300	02/02/15	02/09/15 13:51	150202L11A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.482	0.0200	0.00476	1.00	

GW2	15-02-0071-2-L	02/02/15 13:15	Aqueous	ICP 7300	02/02/15	02/09/15 13:54	150202L11A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.443	0.0200	0.00476	1.00	

GW3	15-02-0071-3-L	02/02/15 15:00	Aqueous	ICP 7300	02/02/15	02/09/15 13:54	150202L11A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.427	0.0200	0.00476	1.00	

MW7	15-02-0071-4-L	02/02/15 10:45	Aqueous	ICP 7300	02/02/15	02/09/15 13:55	150202L11A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.652	0.0200	0.00476	1.00	

MW8	15-02-0071-5-L	02/02/15 11:45	Aqueous	ICP 7300	02/02/15	02/09/15 13:56	150202L11A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.575	0.0200	0.00476	1.00	

GW3 Dup	15-02-0071-6-L	02/02/15 15:10	Aqueous	ICP 7300	02/02/15	02/09/15 13:57	150202L11A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	0.419	0.0200	0.00476	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: N/A Method: EPA 200.7 Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-012-6060	N/A	Aqueous	ICP 7300	02/02/15	02/09/15 12:31	150202L11A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Boron	ND	0.0200	0.00476	1.00	

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-L	02/02/15 14:05	Aqueous	ICP 7300	02/03/15	02/04/15 20:54	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0317	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0413	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0151	0.0150	0.00699	1.00	
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00488	0.0150	0.00291	1.00	J
Vanadium	0.00459	0.0100	0.00244	1.00	J
Zinc	0.0170	0.0100	0.00352	1.00	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 3010A Total
 Method: EPA 6010B
 Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW2	15-02-0071-2-L	02/02/15 13:15	Aqueous	ICP 7300	02/03/15	02/04/15 20:55	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0194	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0151	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0109	0.0150	0.00699	1.00	J
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00325	0.0150	0.00291	1.00	J
Vanadium	0.00363	0.0100	0.00244	1.00	J
Zinc	0.0937	0.0100	0.00352	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 3010A Total
 Method: EPA 6010B
 Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3	15-02-0071-3-L	02/02/15 15:00	Aqueous	ICP 7300	02/03/15	02/04/15 20:57	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0507	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0225	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0116	0.0150	0.00699	1.00	J
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00486	0.0150	0.00291	1.00	J
Vanadium	0.00400	0.0100	0.00244	1.00	J
Zinc	0.0100	0.0100	0.00352	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 3010A Total
 Method: EPA 6010B
 Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7	15-02-0071-4-L	02/02/15 10:45	Aqueous	ICP 7300	02/03/15	02/04/15 21:03	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0391	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0162	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0152	0.0150	0.00699	1.00	
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00502	0.0150	0.00291	1.00	J
Vanadium	0.00427	0.0100	0.00244	1.00	J
Zinc	0.0304	0.0100	0.00352	1.00	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	15-02-0071-5-L	02/02/15 11:45	Aqueous	ICP 7300	02/03/15	02/04/15 21:05	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0263	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0239	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0162	0.0150	0.00699	1.00	
Silver	ND	0.00500	0.00139	1.00	
Thallium	0.00433	0.0150	0.00291	1.00	J
Vanadium	0.00468	0.0100	0.00244	1.00	J
Zinc	0.00486	0.0100	0.00352	1.00	J



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3 Dup	15-02-0071-6-L	02/02/15 15:10	Aqueous	ICP 7300	02/03/15	02/04/15 21:06	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	0.0484	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	0.0205	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	0.0132	0.0150	0.00699	1.00	J
Silver	ND	0.00500	0.00139	1.00	
Thallium	ND	0.0150	0.00291	1.00	
Vanadium	0.00395	0.0100	0.00244	1.00	J
Zinc	0.0130	0.0100	0.00352	1.00	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-14837	N/A	Aqueous	ICP 7300	02/03/15	02/03/15 19:07	150203LA2

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.0150	0.00787	1.00	
Arsenic	ND	0.0100	0.00438	1.00	
Barium	ND	0.0100	0.00296	1.00	
Beryllium	ND	0.0100	0.000561	1.00	
Cadmium	ND	0.0100	0.00269	1.00	
Chromium	ND	0.0100	0.00271	1.00	
Cobalt	ND	0.0100	0.00295	1.00	
Copper	ND	0.0100	0.00267	1.00	
Lead	ND	0.0100	0.00406	1.00	
Molybdenum	ND	0.0100	0.00278	1.00	
Nickel	ND	0.0100	0.00298	1.00	
Selenium	ND	0.0150	0.00699	1.00	
Silver	ND	0.00500	0.00139	1.00	
Thallium	ND	0.0150	0.00291	1.00	
Vanadium	ND	0.0100	0.00244	1.00	
Zinc	ND	0.0100	0.00352	1.00	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3005A Filt.
Method: EPA 6010B
Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-K	02/02/15 14:05	Aqueous	ICP 7300	02/03/15	02/04/15 21:12	150203LA3A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	0.452	0.00500	0.00270	1.00	

GW2	15-02-0071-2-K	02/02/15 13:15	Aqueous	ICP 7300	02/03/15	02/04/15 21:14	150203LA3A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	0.0482	0.00500	0.00270	1.00	

GW3	15-02-0071-3-K	02/02/15 15:00	Aqueous	ICP 7300	02/03/15	02/04/15 21:16	150203LA3A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	ND	0.00500	0.00270	1.00	

MW7	15-02-0071-4-K	02/02/15 10:45	Aqueous	ICP 7300	02/03/15	02/04/15 21:17	150203LA3A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	0.0551	0.00500	0.00270	1.00	

MW8	15-02-0071-5-K	02/02/15 11:45	Aqueous	ICP 7300	02/03/15	02/04/15 21:24	150203LA3A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	0.237	0.00500	0.00270	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 3005A Filt.
 Method: EPA 6010B
 Units: mg/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3 Dup	15-02-0071-6-K	02/02/15 15:10	Aqueous	ICP 7300	02/03/15	02/04/15 21:25	150203LA3A

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	ND	0.00500	0.00270	1.00	

Method Blank	099-15-683-1140	N/A	Aqueous	ICP 7300	02/03/15	02/07/15 12:42	150203LA3A
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Iron	ND	0.100	0.0101	1.00	
Manganese	ND	0.00500	0.00270	1.00	



 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-L	02/02/15 14:05	Aqueous	Mercury 04	02/06/15	02/06/15 20:21	150206L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

GW2	15-02-0071-2-L	02/02/15 13:15	Aqueous	Mercury 04	02/06/15	02/06/15 20:23	150206L05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

GW3	15-02-0071-3-L	02/02/15 15:00	Aqueous	Mercury 04	02/06/15	02/06/15 20:25	150206L05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

MW7	15-02-0071-4-L	02/02/15 10:45	Aqueous	Mercury 04	02/06/15	02/06/15 20:27	150206L05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

MW8	15-02-0071-5-J	02/02/15 11:45	Aqueous	Mercury 04	02/06/15	02/06/15 20:29	150206L05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

GW3 Dup	15-02-0071-6-L	02/02/15 15:10	Aqueous	Mercury 04	02/06/15	02/06/15 20:32	150206L05
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental 3777 Long Beach Blvd., Annex Building Long Beach, CA 90802-3335 Project: MCGU-14-4695:4	Date Received: 02/02/15 Work Order: 15-02-0071 Preparation: EPA 7470A Total Method: EPA 7470A Units: mg/L Page 2 of 2
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-04-008-7306	N/A	Aqueous	Mercury 04	02/06/15	02/06/15 19:58	150206L05

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Mercury	ND	0.000500	0.0000453	1.00	



Calscience

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3510C
Method: EPA 8270C (M) Isotope Dilution
Units: ug/L

Project: MCGU-14-4695:4

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-N	02/02/15 14:05	Aqueous	GC/MS DDD	02/03/15	02/03/15 16:05	150203L08

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dioxane	ND	1.0	0.28	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Nitrobenzene-d5	88	56-123	
1,4-Dioxane-d8(IDS-IS)	51	30-120	

GW2	15-02-0071-2-N	02/02/15 13:15	Aqueous	GC/MS DDD	02/03/15	02/03/15 16:21	150203L08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dioxane	ND	1.0	0.28	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Nitrobenzene-d5	85	56-123	
1,4-Dioxane-d8(IDS-IS)	52	30-120	

GW3	15-02-0071-3-N	02/02/15 15:00	Aqueous	GC/MS DDD	02/03/15	02/03/15 16:38	150203L08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dioxane	ND	1.0	0.28	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Nitrobenzene-d5	87	56-123	
1,4-Dioxane-d8(IDS-IS)	53	30-120	

MW7	15-02-0071-4-N	02/02/15 10:45	Aqueous	GC/MS DDD	02/03/15	02/03/15 16:53	150203L08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dioxane	ND	1.0	0.28	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Nitrobenzene-d5	95	56-123	
1,4-Dioxane-d8(IDS-IS)	48	30-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3510C
Method: EPA 8270C (M) Isotope Dilution
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	15-02-0071-5-N	02/02/15 11:45	Aqueous	GC/MS DDD	02/03/15	02/03/15 17:10	150203L08

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	83	56-123	
1,4-Dioxane-d8(IDS-IS)	48	30-120	

GW3 Dup	15-02-0071-6-N	02/02/15 15:10	Aqueous	GC/MS DDD	02/03/15	02/03/15 17:25	150203L08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	90	56-123	
1,4-Dioxane-d8(IDS-IS)	49	30-120	

Method Blank	099-16-216-359	N/A	Aqueous	GC/MS DDD	02/03/15	02/03/15 13:40	150203L08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
1,4-Dioxane	ND	1.0	0.28	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Nitrobenzene-d5	95	56-123	
1,4-Dioxane-d8(IDS-IS)	56	30-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW1	15-02-0071-1-A	02/02/15 14:05	Aqueous	GC/MS Z	02/03/15	02/04/15 07:31	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	23	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	21	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	120	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	8.4	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	103	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW2	15-02-0071-2-A	02/02/15 13:15	Aqueous	GC/MS Z	02/03/15	02/04/15 08:00	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	0.66	1.0	0.37	1.00	J
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	99	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3	15-02-0071-3-A	02/02/15 15:00	Aqueous	GC/MS Z	02/03/15	02/04/15 08:29	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	140	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	3.6	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	103	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW7	15-02-0071-4-A	02/02/15 10:45	Aqueous	GC/MS Z	02/03/15	02/04/15 08:58	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	0.22	1.0	0.21	1.00	J
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	0.61	1.0	0.46	1.00	J
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	0.32	1.0	0.25	1.00	J
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	4.5	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	0.69	1.0	0.37	1.00	J
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	103	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	100	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW8	15-02-0071-5-A	02/02/15 11:45	Aqueous	GC/MS Z	02/03/15	02/04/15 09:27	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	1.2	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
GW3 Dup	15-02-0071-6-A	02/02/15 15:10	Aqueous	GC/MS Z	02/03/15	02/04/15 09:58	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	140	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	3.4	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	80-120	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB	15-02-0071-7-A	02/02/15 15:20	Aqueous	GC/MS Z	02/03/15	02/04/15 01:19	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB	15-02-0071-8-A	02/02/15 15:15	Aqueous	GC/MS Z	02/03/15	02/04/15 01:47	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	13	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	80-120	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	107	75-135	
Toluene-d8	99	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-16318	N/A	Aqueous	GC/MS Z	02/03/15	02/04/15 00:50	150203L029

Comment(s): - Results were evaluated to the MDL (DL), concentrations \geq to the MDL (DL) but $<$ RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	20	10	1.00	
Benzene	ND	0.50	0.14	1.00	
Bromobenzene	ND	1.0	0.30	1.00	
Bromochloromethane	ND	1.0	0.48	1.00	
Bromodichloromethane	ND	1.0	0.21	1.00	
Bromoform	ND	1.0	0.50	1.00	
Bromomethane	ND	10	3.9	1.00	
2-Butanone	ND	10	2.2	1.00	
n-Butylbenzene	ND	1.0	0.23	1.00	
sec-Butylbenzene	ND	1.0	0.25	1.00	
tert-Butylbenzene	ND	1.0	0.28	1.00	
Carbon Disulfide	ND	10	0.41	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
2-Chlorotoluene	ND	1.0	0.24	1.00	
4-Chlorotoluene	ND	1.0	0.13	1.00	
Dibromochloromethane	ND	1.0	0.25	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.2	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
Dibromomethane	ND	1.0	0.46	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
t-1,2-Dichloroethene	ND	1.0	0.37	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
1,3-Dichloropropane	ND	1.0	0.30	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: MCGU-14-4695:4

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Parameter	Result	RL	MDL	DF	Qualifiers
2,2-Dichloropropane	ND	1.0	0.36	1.00	
1,1-Dichloropropene	ND	1.0	0.46	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
2-Hexanone	ND	10	2.1	1.00	
Isopropylbenzene	ND	1.0	0.58	1.00	
p-Isopropyltoluene	ND	1.0	0.16	1.00	
Methylene Chloride	ND	10	0.64	1.00	
4-Methyl-2-Pentanone	ND	10	4.4	1.00	
Naphthalene	ND	10	2.5	1.00	
n-Propylbenzene	ND	1.0	0.17	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	0.40	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,3-Trichlorobenzene	ND	1.0	0.51	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,3-Trichloropropane	ND	5.0	0.64	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	
Vinyl Acetate	ND	10	2.8	1.00	
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.30	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	101	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW1	Sample	Aqueous	IC 15	N/A	02/02/15 21:44	150202L02B
GW1	Matrix Spike	Aqueous	IC 15	N/A	02/03/15 01:06	150202L02B
GW1	Matrix Spike Duplicate	Aqueous	IC 15	N/A	02/03/15 01:23	150202L02B

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	117.6	5000	5325	104	5330	104	80-120	0	0-20	
Nitrate (as N)	3.326	500.0	519.9	103	520.0	103	80-120	0	0-20	
Sulfate	433.6	5000	5493	101	5497	101	80-120	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 5310 D

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW1	Sample	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCS2
GW1	Matrix Spike	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCS2
GW1	Matrix Spike Duplicate	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCS2

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	42.90	25.00	57.00	56	57.00	56	31-145	0	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 200.7

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
GW1	Sample	Aqueous	ICP 7300	02/02/15	02/09/15 13:51	150202S11A
GW1	Matrix Spike	Aqueous	ICP 7300	02/02/15	02/09/15 13:52	150202S11A
GW1	Matrix Spike Duplicate	Aqueous	ICP 7300	02/02/15	02/09/15 13:53	150202S11A

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Boron	0.4823	0.5000	1.030	110	1.055	115	80-120	2	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0004-1	Sample	Aqueous	ICP 7300	02/03/15	02/04/15 21:08	150203SA2B
15-02-0004-1	Matrix Spike	Aqueous	ICP 7300	02/03/15	02/04/15 21:10	150203SA2B
15-02-0004-1	Matrix Spike Duplicate	Aqueous	ICP 7300	02/03/15	02/04/15 21:11	150203SA2B

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.6448	129	0.6749	135	72-132	5	0-10	3
Arsenic	ND	0.5000	0.5719	114	0.5938	119	80-140	4	0-11	
Barium	0.02745	0.5000	0.5928	113	0.6058	116	87-123	2	0-6	
Beryllium	ND	0.5000	0.5440	109	0.5572	111	89-119	2	0-8	
Cadmium	ND	0.5000	0.5544	111	0.5711	114	82-124	3	0-7	
Chromium	ND	0.5000	0.5747	115	0.5875	117	86-122	2	0-8	
Cobalt	ND	0.5000	0.5770	115	0.5866	117	83-125	2	0-7	
Copper	ND	0.5000	0.5497	110	0.5719	114	78-126	4	0-7	
Lead	ND	0.5000	0.5557	111	0.5630	113	84-120	1	0-7	
Molybdenum	ND	0.5000	0.5657	113	0.5785	116	78-126	2	0-7	
Nickel	ND	0.5000	0.5743	115	0.5827	117	84-120	1	0-7	
Selenium	ND	0.5000	0.5503	110	0.5573	111	79-127	1	0-9	
Silver	ND	0.2500	0.2602	104	0.2657	106	86-128	2	0-7	
Thallium	ND	0.5000	0.5772	115	0.5942	119	79-121	3	0-8	
Vanadium	ND	0.5000	0.5762	115	0.5891	118	88-118	2	0-7	
Zinc	0.1629	0.5000	0.7273	113	0.7484	117	89-131	3	0-8	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-1975-2	Sample	Aqueous	ICP 7300	02/03/15	02/09/15 17:36	150203SA3
15-01-1975-2	Matrix Spike	Aqueous	ICP 7300	02/03/15	02/09/15 17:38	150203SA3
15-01-1975-2	Matrix Spike Duplicate	Aqueous	ICP 7300	02/03/15	02/09/15 17:39	150203SA3

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Iron	ND	0.5000	0.1855	37	0.1678	34	75-125	10	0-20	3
Manganese	0.01079	0.5000	0.5131	100	0.5064	99	75-125	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-2043-2	Sample	Aqueous	Mercury 04	02/06/15	02/06/15 20:02	150206S05
15-01-2043-2	Matrix Spike	Aqueous	Mercury 04	02/06/15	02/06/15 20:05	150206S05
15-01-2043-2	Matrix Spike Duplicate	Aqueous	Mercury 04	02/06/15	02/06/15 20:07	150206S05

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.01000	0.01012	101	0.009899	99	57-141	2	0-10	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3510C
Method: EPA 8270C (M) Isotope Dilution

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-02-0076-10	Sample	Aqueous	GC/MS DDD	02/03/15	02/03/15 14:44	150203S08
15-02-0076-10	Matrix Spike	Aqueous	GC/MS DDD	02/03/15	02/03/15 14:12	150203S08
15-02-0076-10	Matrix Spike Duplicate	Aqueous	GC/MS DDD	02/03/15	02/03/15 14:28	150203S08

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	ND	20.00	20.50	102	20.17	101	50-130	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type		Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number			
15-02-0091-3	Sample		Aqueous	GC/MS Z	02/03/15	02/04/15 02:45	150203S017			
15-02-0091-3	Matrix Spike		Aqueous	GC/MS Z	02/03/15	02/04/15 03:13	150203S017			
15-02-0091-3	Matrix Spike Duplicate		Aqueous	GC/MS Z	02/03/15	02/04/15 03:42	150203S017			
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.33	95	46.78	94	74-122	1	0-21	
Carbon Tetrachloride	ND	50.00	46.48	93	46.43	93	60-144	0	0-21	
Chlorobenzene	ND	50.00	49.96	100	50.65	101	73-120	1	0-22	
1,2-Dibromoethane	ND	50.00	50.10	100	50.87	102	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	49.88	100	50.97	102	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	56.32	113	55.90	112	64-142	1	0-20	
1,1-Dichloroethene	51.75	50.00	96.83	90	94.62	86	52-136	2	0-21	
Ethylbenzene	ND	50.00	48.29	97	47.77	96	77-125	1	0-24	
Toluene	ND	50.00	49.50	99	49.58	99	72-126	0	0-23	
Trichloroethene	79.32	50.00	114.3	70	115.0	71	74-128	1	0-22	3
Vinyl Chloride	ND	50.00	50.30	101	52.14	104	67-133	4	0-20	
p/m-Xylene	ND	100.0	93.90	94	93.91	94	63-129	0	0-25	
o-Xylene	ND	50.00	49.72	99	48.43	97	62-128	3	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	43.98	88	44.22	88	68-134	1	0-21	

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RPD: Relative Percent Difference. CL: Control Limits

Quality Control - PDS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number	
15-01-1975-2	Sample	Aqueous	ICP 7300	02/03/15 00:00	02/09/15 17:36	150203SA3	
15-01-1975-2	PDS	Aqueous	ICP 7300	02/03/15 00:00	02/09/15 17:41	150203SA3	
<u>Parameter</u>		<u>Sample Conc.</u>	<u>Spike Added</u>	<u>PDS Conc.</u>	<u>PDS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Iron		ND	0.5000	0.1679	34	75-125	5
Manganese		0.01079	0.5000	0.4976	97	75-125	



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Quality Control - Sample Duplicate

Alta Environmental
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Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
GW1	Sample	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKD1
GW1	Sample Duplicate	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKD1

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Alkalinity, Total (as CaCO ₃)	407.0	407.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Sample Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
GW1	Sample	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOD1
GW1	Sample Duplicate	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209HCOD1

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Bicarbonate (as CaCO ₃)	407.0	407.0	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Sample Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
GW1	Sample	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3D1
GW1	Sample Duplicate	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209CO3D1

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbonate (as CaCO ₃)	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Sample Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2540 C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
15-02-0091-3	Sample	Aqueous	SC 5	02/04/15 00:00	02/04/15 17:00	F0204TDSD3
15-02-0091-3	Sample Duplicate	Aqueous	SC 5	02/04/15 00:00	02/04/15 17:00	F0204TDSD3

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Solids, Total Dissolved	1030	1015	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - Sample Duplicate

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 4500 S2 - D

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	Duplicate Batch Number
GW3 Dup	Sample	Aqueous	N/A	02/04/15 00:00	02/04/15 19:05	F0204SD2
GW3 Dup	Sample Duplicate	Aqueous	N/A	02/04/15 00:00	02/04/15 19:05	F0204SD2

<u>Parameter</u>	<u>Sample Conc.</u>	<u>DUP Conc.</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	ND	ND	N/A	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: RSK-175M

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-659-771	LCS	Aqueous	GC 14	N/A	02/03/15 09:32	150203L01
099-12-659-771	LCSD	Aqueous	GC 14	N/A	02/03/15 09:53	150203L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Carbon Dioxide	104.0	94.64	91	92.40	89	80-120	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: RSK-175M

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-1135	LCS	Aqueous	GC 61	N/A	02/04/15 10:06	150204L01
099-12-661-1135	LCSD	Aqueous	GC 61	N/A	02/04/15 10:32	150204L01

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Ethane	99.40	91.49	92	91.36	92	80-120	0	0-20	
Ethylene	102.0	96.81	95	96.67	95	80-120	0	0-20	
Methane	102.0	95.99	94	95.67	94	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-906-5388	LCS	Aqueous	IC 15	N/A	02/02/15 20:16	150202L02
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Chloride		50.00	51.50	103	90-110	
Nitrate (as N)		5.000	5.106	102	90-110	
Sulfate		50.00	50.74	101	90-110	



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Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: EPA 300.0

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-906-5398	LCS	Aqueous	IC 15	N/A	02/03/15 20:55	150203L02
099-12-906-5398	LCSD	Aqueous	IC 15	N/A	02/03/15 21:12	150203L02

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chloride	50.00	50.72	101	50.74	101	90-110	0	0-15	
Nitrate (as N)	5.000	5.076	102	5.074	101	90-110	0	0-15	
Sulfate	50.00	50.54	101	50.61	101	90-110	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2320B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-859-582	LCS	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1			
099-15-859-582	LCSD	Aqueous	PH1/BUR03	N/A	02/09/15 14:10	F0209ALKB1			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	100.0	99.00	99	99.00	99	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 2540 C

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-180-4412	LCS	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3			
099-12-180-4412	LCSD	Aqueous	SC 5	02/04/15	02/04/15 17:00	F0204TDSL3			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Solids, Total Dissolved	100.0	115.0	115	110.0	110	80-120	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 4500 S2 - D

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-853-444	LCS	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2
099-15-853-444	LCSD	Aqueous	N/A	02/04/15	02/04/15 19:05	F0204SL2

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Sulfide, Total	1.000	0.8500	85	0.8500	85	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: N/A
Method: SM 5310 D

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-05-097-5507	LCS	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2			
099-05-097-5507	LCSD	Aqueous	TOC 6	02/06/15	02/07/15 06:14	F0206TOCL2			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	5.000	5.060	101	5.080	102	80-120	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: N/A
 Method: EPA 200.7

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-012-6060	LCS	Aqueous	ICP 7300	02/02/15	02/09/15 12:32	150202L11A

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Boron	0.5000	0.4235	85	85-115	

Quality Control - LCS

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 3010A Total
 Method: EPA 6010B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-003-14837	LCS	Aqueous	ICP 7300	02/03/15	02/04/15 10:57	150203LA2
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	0.5000	0.5882	118	80-120	73-127	
Arsenic	0.5000	0.4745	95	80-120	73-127	
Barium	0.5000	0.4871	97	80-120	73-127	
Beryllium	0.5000	0.5150	103	80-120	73-127	
Cadmium	0.5000	0.5297	106	80-120	73-127	
Chromium	0.5000	0.5393	108	80-120	73-127	
Cobalt	0.5000	0.5481	110	80-120	73-127	
Copper	0.5000	0.5550	111	80-120	73-127	
Lead	0.5000	0.5240	105	80-120	73-127	
Molybdenum	0.5000	0.5307	106	80-120	73-127	
Nickel	0.5000	0.5129	103	80-120	73-127	
Selenium	0.5000	0.5103	102	80-120	73-127	
Silver	0.2500	0.2202	88	80-120	73-127	
Thallium	0.5000	0.5230	105	80-120	73-127	
Vanadium	0.5000	0.5323	106	80-120	73-127	
Zinc	0.5000	0.5454	109	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-683-1140	LCS	Aqueous	ICP 7300	02/03/15	02/07/15 12:44	150203LA3A
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Iron		0.5000	0.5039	101	80-120	
Manganese		0.5000	0.5299	106	80-120	

Quality Control - LCS

Alta Environmental
 3777 Long Beach Blvd., Annex Building
 Long Beach, CA 90802-3335

Date Received: 02/02/15
 Work Order: 15-02-0071
 Preparation: EPA 7470A Total
 Method: EPA 7470A

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-7306	LCS	Aqueous	Mercury 04	02/06/15	02/06/15 20:00	150206L05

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury	0.01000	0.01010	101	85-121	

Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 3510C
Method: EPA 8270C (M) Isotope Dilution
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Project: MCGU-14-4695:4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-216-359	LCS	Aqueous	GC/MS DDD	02/03/15	02/03/15 13:56	150203L08

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
1,4-Dioxane	20.00	19.91	100	50-130	

Quality Control - LCS

Alta Environmental
3777 Long Beach Blvd., Annex Building
Long Beach, CA 90802-3335

Date Received: 02/02/15
Work Order: 15-02-0071
Preparation: EPA 5030C
Method: EPA 8260B

Project: MCGU-14-4695:4

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-16318	LCS	Aqueous	GC/MS Z	02/03/15	02/03/15 23:52	150203L029
Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	46.54	93	80-120	73-127	
Carbon Tetrachloride	50.00	46.16	92	67-139	55-151	
Chlorobenzene	50.00	49.58	99	78-120	71-127	
1,2-Dibromoethane	50.00	49.33	99	80-120	73-127	
1,2-Dichlorobenzene	50.00	50.48	101	63-129	52-140	
1,2-Dichloroethane	50.00	53.24	106	70-130	60-140	
1,1-Dichloroethene	50.00	49.34	99	66-126	56-136	
Ethylbenzene	50.00	48.50	97	80-123	73-130	
Toluene	50.00	49.08	98	80-120	73-127	
Trichloroethene	50.00	49.06	98	80-122	73-129	
Vinyl Chloride	50.00	53.01	106	70-130	60-140	
p/m-Xylene	100.0	94.97	95	75-123	67-131	
o-Xylene	50.00	49.24	98	74-122	66-130	
Methyl-t-Butyl Ether (MTBE)	50.00	44.76	90	69-129	59-139	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass


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Glossary of Terms and Qualifiers

Work Order: 15-02-0071

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT:

Alta Environmental

ADDRESS:

3777 Long Beach Blvd Long Beach

STATE:

CA

CITY:

Long Beach

E-MAIL:

562-495-5777 jonathan.bachman@altaenv.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

WO NO. / LAB USE ONLY

15-02-0071

CHAIN-OF-CUSTODY RECORD

DATE: 02/02/15

PAGE: 1 OF 1

CLIENT PROJECT NAME / NO.:

MC6U-14-4695:4

PROJECT CONTACT:

Jon Bachman

GLOBAL ID:

LOG CODE:

SAMPLER(S): (PRINT)

Reid Shigemo

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH (P) <input type="checkbox"/> GRO	TPH (P) <input type="checkbox"/> DBD	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Total Sulfide 4500-5-B	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxyanions (8260) Bism 200.7	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	Total Dissolved Gases RSK-175	Total Dissolved Iron Mag 6008	Sulfate / Nitrate / Chloride 300	Total Alk/Carbonyls/Bicarb 23003	
	641	2/2/15	1405	W	15				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	642		1315						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	643		1500						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	644		1045						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	645		1145						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	643 Dup		1510						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	TB		1520		2																					
	FB		1515		3																					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 2/2/15	Time: 1715
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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Calscience

WORK ORDER #: 15-02-0071

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: Alta Env'l

DATE: 02/02/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.8 °C + 0.2 °C (CF) = 4.0 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 612

CUSTODY SEALS INTACT:

☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/A

Checked by: 612

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present

Checked by: 977

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.

☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.

Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------------------	-------------------------------------	--------------------------	--------------------------

Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------

Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Aqueous samples received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen..... ☐ ☐ ☒

Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------

☒ Unpreserved vials received for Volatiles analysis

Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
---	-------------------------------------	--------------------------	--------------------------

Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
---	--------------------------	--------------------------	-------------------------------------

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® ☐ TerraCores® ☐ _____

Aqueous: ☒ VOA ☒ VOA⁵h ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna₂ ☐ 1AGBs

☒ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☒ 250CGBs ☒ 1PB ☐ 1PBna ☐ 500PB

☒ 250PB ☒ 250PBn ☒ 125PB ☒ 125PBznna ☐ 100PJ ☐ 100PJna₂ ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar® ☐ Canister Other: ☐ _____ Trip Blank Lot#: 150121F Labeled/Checked by: 977

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 876

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: 876

Calscience

WORK ORDER #: 15-02-0071

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: Alta Env'l

DATE: 02/02/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 4.3 °C + 0.2 °C (CF) = 4.5 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 619

CUSTODY SEALS INTACT:

☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/A

Checked by: 619

☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present

Checked by: 911

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® ☐ TerraCores® ☐ _____

Aqueous: ☒ VOA ☒ VOA_h ☐ VOAn₂ ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☐ 1AGB ☐ 1AGB_{na} ☐ 1AGB_s
☒ 500AGB ☐ 500AGJ ☐ 500AGJ_s ☐ 250AGB ☐ 250CGB ☒ 250CGB_s ☒ 1PB ☐ 1PB_{na} ☐ 500PB

☒ 250PB ☒ 250PB_n ☒ 125PB ☒ 125PB_{znna} ☐ 100PJ ☐ 100PJ_{na} ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar® ☐ Canister Other: ☐ _____ Trip Blank Lot#: _____ Labeled/Checked by: 911

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 816

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure znna: ZnAc₂+NaOH f: Filtered Scanned by: 816