REPORT OF ENVIRONMENTAL INVESTIGATION
SDSU MISSION VALLEY
SAN DIEGO, CALIFORNIA

Prepared for:

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Group Delta Project No. SD605
April 5, 2019

GROUP DELTA

April 5, 2019

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Attention: Mr. Michael Masterson

SUBJECT: **Report of Environmental Investigation**
SDSU Mission Valley
San Diego, California

Mr. Masterson:

Group Delta Consultants (Group Delta) is submitting this environmental investigation report in support of the proposed development at the San Diego State University Mission Valley campus (Site). We prepared this report per our proposal dated January 16, 2019 under our Agreement for Consultant Services dated January 23, 2019

The purpose of this Site Investigation is to provide preliminary soil, soil gas, and groundwater characterization at the Site. A preliminary assessment of the health risk posed by vapor intrusion to future structures at the Site was also conducted using the soil gas analytical data collected during this investigation. The environmental field investigation was completed concurrently with a geotechnical investigation performed by Group Delta and discussed in a separate report.
We appreciate your selection of Group Delta Consultants, Inc. for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Sincerely,
GROUP DELTA CONSULTANTS, INC.

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List of Acronyms

4,4'-DDE	4,4'-Dichlorodiphenyldichloroethylene
bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylene
CCR	California Code of Regulations
CFR	Code of Federal Regulations
DEH	San Diego County Department of Environmental Health
DOT	Department of Transportation
DRO	Diesel Range Organics
DTSC	Department of Toxic Substance Control
ELAP	Environmental Laboratory Accreditation Program
EST	Environmental Support Technologies
J	J-flag estimated concentration below the report limit but above the method detection limit
GRO	Gasoline range organics
GS/MS	Gas chromatograph/mass spectrometer
gpm	Gallons per minute
HASP	Health and Safety Plan
HI	Hazard index
HQ	Hazard quotient
HHRA	Human Health risk assessment
ID	Identification
IDW	Investigation derived waste
LCS/LCSDs	Laboratory control sample and laboratory control sample duplicates
LNAPL	Light Non-aqueous Phase Liquid
LDPE	Low-density polyethylene
MCL	Maximum Contaminant Levels
MS/MSD	Matrix spike and matrix spike duplicates
MTBE	Methyl t-butyl ether
mg/kg	Milligrams per kilograms
µg/l	Micrograms per liter
NFA	No Further Action
OSHA	Occupational Safety and Health Administration
PAH	Polychlorinated biphenyl
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethylene
PID	Photoionization detector
PPE	Personal Protective Equipment
ppm	Parts per million
PVC	Polyvinyl chloride
QA	Quality assurance
QC	Quality control
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
RPD	Relative percent difference
RSL	Regional Screening Level
RWQCB	Regional Water Quality Control Board
SDCCU	San Diego County Credit Union
DEH	San Diego County Department of Environmental Health

SDSU	San Diego State University
SL	Screening Level
SVE	Soil Vapor Extraction
SWRCB	State Water Resources Control Board
TPH	Total petroleum hydrocarbons
TMB	Trimethylbenzene
USA	Underground Service Alert
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
VI	Vapor Intrusion
VISLs	Vapor intrusion screening levels
VOC	Volatile organic compound

1.0 INTRODUCTION

This report documents the results of an environmental investigation conducted by Group Delta Consultants, Inc. (Group Delta) for the proposed redevelopment at the San Diego State University (SDSU) Mission Valley campus site (Site). The Site is located near the intersection of the I-15 and I-8 Freeways as shown in **Figure 1**. The Site is currently occupied by the San Diego County Credit Union (SDCCU) football stadium, formerly known as Qualcomm Stadium. The proposed redevelopment includes a new stadium, along with a campus expansion, tailgate park, hotel and conference center, student housing, and park space. The layout of the proposed redevelopment project is shown in **Figure 2**.

A limited environmental investigation was conducted at the Site between February 11 and March 16, 2019 in support of the proposed redevelopment project. This report summarizes the fieldwork procedures and results of the limited soil, groundwater, and soil gas investigations conducted at the Site and includes a vapor Intrusion (VI) health risk assessment.

1.1 Objectives and Investigation Approach

The objectives of this investigation are summarized as follows:

1. Characterize soil and groundwater for the presence of residual contaminants following prior site remediation activities. To meet this objective, soils and groundwater were sampled at a limited number of locations at the Site as a "spot-check" to verify information previously reported by Kinder Morgan Energy Partners, L.P. (Kinder Morgan). Soil sample results were compared against applicable residential soil screening levels to ensure that soils are compatible with the proposed redevelopment.
2. Characterize soil gas for the presence of environmental contaminants to support vapor intrusion screening for the proposed redevelopment. To meet this objective, a more comprehensive soil gas investigation was conducted within and surrounding the proposed building footprints to characterize the human health risks from vapor intrusion. The soil gas results and applicable regulatory screening models were used to estimate cumulative health risks from vapor intrusion.

1.2 Report Organization

The investigation report for the SDSU Mission Valley site is organized as follows:

- Section 2: Site Background
- Section 3: Field Investigation Activities
- Section 4: Laboratory Analyses
- Section 5: Investigation Results
- Section 6: Vapor Intrusion Health Risk Assessment
- Section 7: Conclusions and Recommendations
- Section 8: References

2.0 SITE BACKGROUND

2.1 Site Description

The Site is the location of the SDCCU football stadium (formerly known as Qualcomm Stadium). The Site is bordered by Friars Road and San Diego Mission Road to the north, Murphy Canyon Creek and I-15 to the east, the San Diego River and I-8 to the south, and commercial development to the west. The football stadium is surrounded by extensive parking, and the grade at the Site slopes steeply from north to south. There is a trolley track and station at the southern end of the Site which connects to the SDSU campus. The Kinder Morgan Mission Valley Terminal site (GeoTracker ID No. SL607392800) is located adjacent to the property in the northeast corner. Kinder Morgan previously referred to the SDCCU stadium site as the "off-Terminal area".

2.2 Regional Geology

The site is located within the Peninsular Ranges geomorphic province of southern California. This province stretches from the Los Angeles basin to the tip of Baja California. It is characterized as a series of northwest trending mountain ranges separated by subparallel fault zones. The site is located within the coastal plain transected by the west-flowing San Diego River drainage known as Mission Valley, and it is underlain at depth by Eocene-age sedimentary deposits mapped as the Friars Formation.

The Friars Formation consists of six intertonguing, depositionally time-equivalent facies ranging from deep-marine, fine-grained siltstone and claystone to the southwest; to continental, coarse-grained sandstone and conglomerate to the northeast. The Friars Formation are nonmarine and near-shore deposits of lagoonal sandstone, siltstone, and claystone. The Friars Formation is found in Mission Valley at elevations below approximately 160 feet. Regionally, the Friars Formation dips gently to the southwest between 3 and 5 degrees.

Thick deposits of poorly consolidated, mostly granular alluvium associated with the San Diego River and Murphy Creek drainages, local deposits of slopewash and colluvium, and relatively shallow fill soils associated with the original stadium construction overlies the Friars Formation.

2.3 Groundwater

Groundwater was encountered in the subsurface explorations completed during the environmental and geotechnical investigation conducted by Group Delta. In general, groundwater was encountered at elevations of 47 to 49 feet along the northern portion of the site and elevations of 37 to 40 feet in the southwest portion of the site. The depth to groundwater varied significantly from approximately 7 to 40 feet below ground surface (bgs). Within the borings used for environmental sampling, the depth to groundwater varied from 12.1 to 39.9 feet bgs. The groundwater appears to flow in a southwest direction.

2.4 Prior Environmental Site Remediation Activities

The SDSU Mission Valley site is located adjacent to the Kinder Morgan Terminal property, which was a source of fuel hydrocarbons to soil and groundwater at both properties. Floating separate-phase product or light non-aqueous phase liquid (LNAPL) was observed within the northeastern portion of the SDSU Mission Valley site at one time. Dissolved benzene concentrations up to 29,000 micrograms per liter (µg/l) were previously measured in groundwater at the site (in well R-9). The dissolved fuel hydrocarbon plume extended across the site from north to south in a hydraulically downgradient direction.

Under oversight by the San Diego Regional Water Quality Control Board (RWQCB), Kinder Morgan conducted soil and groundwater remediation at both properties. The approved remedy included groundwater and soil vapor extraction (SVE). Groundwater extraction depressed the water table, exposing fuel hydrocarbons for removal by SVE. In addition, a limited soil removal action was conducted in 2010 within the LNAPL source area using large diameter augers. Active remediation was completed at the SDSU Mission Valley site in 2014, and post-remediation monitoring of groundwater and SVE continued until August 2015. The RWQCB approved terminating post-remediation monitoring, although a No Further Action (NFA) case closure letter has not yet been issued for the SDSU Mission Valley site. The monitoring and remediation wells were left in place at the site and have not yet been abandoned (Geotracker Database; SWRCB, 2019).

3.0 FIELD INVESTIGATION ACTIVITIES

The environmental field investigation consisted of: (1) hollow-stem auger boring advancement for soil sampling concurrently with the geotechnical investigation; (2) groundwater gauging and sampling from existing selected monitoring wells, and; (3) direct-push boring advancement for soil gas probe installation and sampling. The field activities were completed between February 11 and March 16, 2019.

3.1 Field Work Preparation and Boring Clearance

Prior to conducting the investigation, an initial site reconnaissance was conducted to ensure accessibility and safety of proposed sampling locations. A site-specific health and safety plan (HASP) was prepared in accordance with Occupational Safety and Health Administration (OSHA) standards for hazardous waste operations (29 CFR § 1910.120) and to establish general health and safety protocols for personnel. The site-specific HASP was made available to the field personnel and signed during tailgate meetings prior to starting the fieldwork.

A boring permit for soil sampling was acquired from the San Diego County Department of Environmental Health (DEH). The locations of the borings were marked with white paint. The Underground Service Alert (USA) of Southern California was notified at least 48 hours prior to commencement of field activities to confirm the absence of subsurface utilities at each boring location. In addition, a geophysical survey was conducted prior to drilling to identify subsurface piping, obstructions, or anomalies at the proposed boring locations and relocate as necessary. The drilling locations were accessible within the asphalt parking lot.

3.2 Soil Sampling

Soil sampling was performed between February 13 and March 16, 2019, within the northeast, southeast, southwest, and northwest quadrants of the Site. Group Delta retained Pacific Drilling Co. and Tri-County Drilling, Inc. both from San Diego, California. Soil sampling boring locations are presented in **Figure 3**.

A total of 32 borings were advanced as part of the geotechnical investigation discussed under separate cover (Group Delta, 2019). Out of the 32 geotechnical borings, 12 were also used for collecting environmental samples. Environmental soil samples were collected at approximately 2, 5, and 10 feet bgs.

The 32 geotechnical borings were labeled as S-1 through S-13 and B-14 through B-32. Environmental sampling was conducted at borings S-2, S-8, S-13, B-14, B-16, B-20, B-24, B-26, B-27, B-28, B-30, and B-31. Soil sample naming convention consisted of the boring location followed by a dash and the depth of the sample (e.g. S-2-2 collected from boring S-2 at 2 feet bgs). The locations for environmental sampling were selected to evaluate areas within the proposed residential, educational, hotel, and stadium developments. The borings utilized for collection of environmental samples were generally concentrated within areas of known previously impacted areas. Borings S-2, B-24, B-26, B-27, B-28, B-30, B-31 were located within the former LNAPL

source area at the northeast and northwest quadrants of the Site. The remaining environmental sampling locations were located either downgradient or cross-gradient of the former LNAPL source area.

3.2.1 *Soil Sampling Field Equipment*

The following equipment was used during drilling and soil sampling:

- Drill rig with 6-inch or 8-inch-diameter hollow stem auger
- 2-inch-diameter slit spoon sampler with a sufficient number of sampling tubes
- Photoionization detector (PID) and calibration gas
- Plastic baggies
- Personal Protective Equipment (PPE)
- Three 5-gallon buckets
- Tap water
- Deionized water
- Liquinox® and scrubbing brush
- Plastic sheeting, or linen cloth for placement of the split spoon sampler
- Sampling bottles and Terra Cores®
- Box cooler with ice for storage of the collected samples
- Self-adhesive labels and chain of custody sheets.

3.2.2 *Soil Sampling Procedures*

Presented below is the soil sampling procedures implemented in the field:

- The boring was initiated using a decontaminated hollow stem auger and advanced to the first sampling depth.
- A decontaminated split spoon sampler was driven into the soil and soil samples retrieved in dedicated sampling tubes representative of sampling depth intervals.
- The soil sample was transferred to sampling containers provided by the laboratory. Terra Cores® were used for VOC sample collection. Samples were properly labeled and placed on ice within a box cooler.
- The remaining portion of soil sample was placed into a Ziploc bag for homogenization and equilibration. The calibrated PID was used to collect headspace readings from the sample. The soil sampled was screened for evidence of contamination including PID readings, hydrocarbon odor, and staining. A summary of the observations and general soil conditions for each boring were recorded.

- Lithology was logged using soil samples collected during drilling per the Unified Soil Classification System (USCS).
- These environmental soil sampling procedures were repeated for the remaining sampling depths for each boring location up to 10 or 12.5 feet bgs.
- Samples were labeled with the boring number, sample depth, and time and date of sample collection and placed on ice within a box cooler.
- Chain-of-custody forms were completed and samples were transported on ice to the chemical testing laboratory.
- The boring advancement and backfilling were completed in accordance with the Group Delta's geotechnical investigation discussed under separate cover (Group Delta, 2019).

3.3 Groundwater Gauging and Sampling

Groundwater gauging and sampling were performed on March 12 at existing groundwater monitoring wells within the northeast quadrant of the Site. Groundwater gauging and sampling locations are presented in **Figure 3**.

A total of seven groundwater monitoring wells (R-9, R-10, R-11, R-32AS, R-33AS, R-86AS, and R-87AS) were selected for gauging within the former LNAPL source area. Out of these seven groundwater monitoring wells, three wells (R-9, R-33AS, and R-86AS) were selected for groundwater sampling. Groundwater purging forms are attached in **Appendix B**.

3.3.1 *Groundwater Gauging and Sampling Field Equipment*

The following equipment was used during groundwater gauging and sampling:

- Interface probe
- Downhole electric pump with controller
- Dedicated 1/2-inch low-density polyethylene (LDPE) tubing
- Calibrated water quality meter with flow-through cell
- PPE
- Three 5-gallon buckets
- Tap water
- Deionized water
- Liquinox® and scrubbing brush
- Sampling bottles
- Box cooler with ice for storage of the collected samples
- Self-adhesive labels and chain of custody sheets.

3.3.2 *Groundwater Gauging and Sampling Procedures*

Presented below is the groundwater gauging and sampling procedures implemented in the field:

- The groundwater elevation and presence of LNAPL was measured using a decontaminated interface probe.
- Prior to groundwater sampling, a rinseate/equipment blank sample was collected for analyzes as a measure of accuracy of the field techniques and to determine if any contamination had been introduced through sample collection or decontamination procedures. The rinseate/equipment blank sample consisted of a sample of deionized water poured over or through the decontaminated sampling equipment. The rinseate/equipment blank was analyzed for the same parameters as the primary samples.
- One laboratory-prepared trip blank sample was transported with the box cooler and analyzed for VOCs.
- Groundwater wells R-33AS and R-86AS were sampled utilizing a low-flow purging method. The low-flow purging method included pumping the well using a decontaminated downhole electric pump outfitted with a controller and dedicated tubing at a rate of less than 0.25 gallons per minute (gpm) to ensure minimal drawdown of the static water table. Water quality was measured using a calibrated water quality meter and flow-through cell to continuously monitor geochemical parameters during purging. Water quality parameters monitored included temperature, dissolved oxygen, conductivity, turbidity, and pH in addition to flow rate and water level. After chemical parameter stabilization, the groundwater samples were collected using the laboratory-supplied containers.
- Groundwater well R-9 was sampled utilizing a high-flow purging method. The high-flow purging method included pumping the well using a downhole electric pump outfitted with a controller and dedicated tubing at a minimum rate of 0.25 gpm. The water quality was measured using a calibrated water quality meter and flow-through cell to continuously monitor geochemical parameters during purging. Water quality parameters monitored included temperature, dissolved oxygen, conductivity, turbidity, and pH in addition to flow rate and water level. After chemical parameter and groundwater water level stabilization and removal of at least three well casing volumes, the groundwater samples were collected using the laboratory-supplied containers.
- Samples were labeled with the well ID, time, and date of sample collection and placed on ice in the box cooler.
- The sampling equipment was cleaned and rinsed after each sample collection via washing with a solution of Liquinox® followed by tap water and then deionized water rinses.

3.4 Soil Gas Sampling

Soil gas probes were installed on March 11 and 12 and sampled on March 13 and 14 within the northeast, southeast, southwest, and northwest quadrants of the Site. Group Delta retained Environmental Support Technologies (EST) of Irvine, California to install and sample the soil gas probes. EST is a California-certified analytical laboratory with mobile laboratory services. Soil gas probe installation and sampling were conducted in accordance with the methods and procedures identified in the Active Soil Gas Investigation Advisory (DTSC, 2015). Soil gas locations are presented in **Figure 3**.

A total of 28 soil gas probes were installed and sampled (26 probes at approximately 5 feet bgs and 2 probes at approximately 10 feet bgs). The 26 soil gas samples collected at 5 feet bgs were labeled as SG1-5 through SG26-5. The two soil gas samples collected at 10 feet bgs were labeled as SG20-10 and SG22-10 (located near SG20-5 and SG22-5, respectively). Soil gas samples were analyzed on site by a mobile laboratory. The soil gas boring locations were selected to evaluate areas within the proposed residential, educational, hotel, and stadium developments. The soil gas borings were mostly concentrated within areas of known previous impacted soils. The soil gas borings were located as follows:

- 19 5-foot soil gas probes (SG7-5 through SG18-5 and SG20-5 through SG26-5) were located within or near the footprint of 13 proposed residential buildings in the northeast and southeast quadrants of the Site. For residential footprints near the former LNAPL source at the northeast quadrants of the Site, a second soil gas probe was installed. The footprint of four proposed residential buildings could not be accessed due to the existing stadium. The footprint of a proposed residential building could not be accessed due to conflict with a site event. The soil gas probes were located as close as possible to the inaccessible areas.

- Two 10-foot soil gas probes (SG20-10 and SG22-10) were located adjacent to SG20-5 and SG22-5 within the footprint of two proposed residential buildings near the former LNAPL source area in the northeast quadrant of the Site.

- Three 5-foot soil gas probes (SG1-5, SG2-5, and SG19-5) were located within the footprint of two proposed hotel buildings in the northeast and northwest quadrants of the Site.

- One 5-foot soil gas probe (SG3-5) was located within the footprint of a proposed stadium in the northwest quadrant.

- One 5-foot soil gas probe (SG6-5) was located within the footprint of the proposed campus with underground parking in the southwest quadrant.

- Two 5-foot soil gas probes were located within or near the footprint of two proposed educational buildings at the northwest quadrant. The footprint of a proposed educational building could not be accessed due to the existing stadium. One soil gas probe was located

as close as possible to the inaccessible area between the proposed building footprint and proposed stadium.

3.4.1 *Soil Gas Probe Installation and Sampling Field Equipment*

The following equipment was used during soil gas probe installation and sampling:

- A direct-push drill rig with 3-inch-diameter steel rod
- PPE
- Dedicated sampling tip and ¼-inch diameter nylon sampling tubing
- Vacuum pump and sampling apparatus
- Gas-tight glass syringes equipped with Teflon® plungers
- Mobile laboratory equipped with gas chromatograph/mass spectrometer (GS/MS)

3.4.2 *Soil Gas Probe Installation and Sampling Procedures*

Presented below is the soil gas probe installation and sampling procedures implemented in the field:

- The boring was initiated using the direct-push drill rig. The direct-push drill rig used a percussion hammer to drive the steel rod to the total depth of either 5 or 10 feet bgs.

- The soil gas probe was temporarily installed using nylon tubing, plastic implant tip, and surface cap.

- The soil gas probe boring was backfilled with a 1-foot permeable sand layer starting from the bottom followed by a 1-foot dry bentonite layer followed by a hydrated bentonite layer up to the surface.

- After approximately 48 hours of equilibration, the soil gas samples were collected at a rate of approximately 200 milliliters per minute following evacuation of a minimum of three purge volumes at a vacuum less than 100 inches of water. Soil gas samples were collected in gas-tight glass syringes equipped with Teflon® plungers for direct injection into the calibrated GC/MS in the onsite mobile lab.

- A shut-in test was conducted to check for leaks in the above-ground sampling apparatus prior to purging and sampling at each monitoring probe. The sampling apparatus was evacuated to 100 inches of water vacuum, sealed, and monitored for evidence of leaks for at least one minute.

- A leak test was conducted by introducing 2-propanol as a tracer gas at the soil vapor tubing and surface interface before sampling. The soil gas samples were analyzed for

2-propanol to determine if there were any ambient air leaks into the soil vapor collection apparatus.

- After sampling completion, the soil gas probe was decommissioned by removing the tubing below ground. The borehole was backfilled with cement grout up to the surface and pavement was restored to match existing conditions.

3.5 Quality Assurance/Quality Control

To assess for potential cross-contamination of soil, soil gas and/or groundwater samples during collection, handling, preparation, packing, and/or analyses, and thereby ensure reliability of the analytical data, quality assurance/quality control (QA/QC) procedures were implemented. Rinseate/equipment blank and trip blank sampling procedures were followed in the field during groundwater sampling as described in Section 3.3.2. A data quality analysis for soil, soil gas, and groundwater analytical data is provided in Section 5.4.

3.6 Field Observations

3.6.1 *Site Geology*

Based on the Group Delta's geotechnical investigation conducted at the Site, the soil underlying the Site is generally fine to coarse-grained silty and clayey sand with various amounts of gravel and cobbles, with discontinuous layers of sand, silt, and lean clay down to the sample depth of approximately 15 feet bgs. Group Delta's geotechnical investigation report describes the site geology in more detail. Boring logs with detailed lithologic descriptions are provided in the referenced report (Group Delta, 2019).

3.6.2 *Headspace Measurements and Field Evidence of Impacted Soils*

VOC concentrations in the soil were screened using a calibrated MiniRAE® 2000 hand-held PID. Headspace measurements were obtained by placing homogenized soil samples into plastic sealable bags. The bags were allowed to sit in the sun for a minimum of ten minutes to allow volatilization of VOCs, if present. VOC concentrations were measured in the headspace of the plastic bag and recorded in the field notes. The headspace measurements recorded in the field typically ranged between 0.0 parts per million (ppm) and 20 ppm. These detections are considered low and may be attributed to water vapor. However, a few boring locations had higher headspace readings between 20 and 181 ppm. The table below summarizes the borings with headspace readings greater than 50 ppm.

Boring ID	Depth	PID Reading (ppm)
B-23	20	60
	25	149
	35	77
B-27	25	70
	40	163
B-30	25	60
	35	181
	40	151

Environmental soil samples were collected from Boring B-27 and B-30 at 5 and 10 feet bgs but not at the same depth as the elevated PID readings. Environmental soil samples were not collected from Boring B-23. However, these samples did not present clear evidence of VOC-impacted soils based on hydrocarbon odor or staining.

3.6.3 *Ambient Air Monitoring*

Ambient air was screened in the breathing zone using a calibrated MiniRAE® 2000 hand-held PID. Ambient air VOC concentrations did not exceed 0.0 ppm.

3.7 Investigation Derived Waste

Investigation derived waste (IDW) including drilling spoils, purged groundwater, and decontamination water were stored in labeled Department of Transportation (DOT)-approved 55-gallon drums at a secure location at the Site. Composite samples were collected from the drums in additional to soil and groundwater samples for waste characterization. The waste derived from the field investigations will be disposed of at an appropriate waste disposal facility.

The detected chemical concentrations discussed in Section 5 were compared against the limits specified in Title 22, California Code of Regulations (CCR), Section 66261.24, and Title 40 Code of Federal Regulations (CFR) Section 261.24, for waste classification for purpose of storage, transportation, and disposal.

4.0 LABORATORY ANALYSIS

The soil and groundwater samples were transported to Eurofins Calscience in Garden Grove, California, a laboratory certified by the State Water Resources Control Board's (SWRCB) Environmental Laboratory Accreditation Program (ELAP) for analysis. The soil gas samples were analyzed onsite by the ELAP-certified EST mobile laboratory.

4.1 Laboratory Methods

Soil samples at 2 and 2.5 feet bgs were analyzed for the following constituents:

- Title 22 California Action Metals by EPA Method 6010B and 7471A;
- Organochlorine pesticides by EPA Method 8081A;
- Polychlorinated biphenyl (PCB) aroclors by EPA Method 8082, and;
- Polyaromatic hydrocarbons (PAHs) Selected Ion Monitoring (SIM) by EPA Method 8270C.

Soil samples at 5, 6, 10, and 12.5 feet bgs were analyzed for the following constituents:

- TPH carbon chain analysis for gasoline range organics (GRO) and diesel range organics (DRO) by EPA Test Method 8015B Modified, and;
- Volatile organic compounds (VOCs) by EPA Test Method 8260B.

Groundwater samples were analyzed for the following constituents:

- TPH carbon chain analysis for gasoline and diesel by EPA Test Method 8015B, and;
- VOCs by EPA Test Method 8260B.

Soil gas samples were analyzed for the following constituents:

- VOCs by EPA Method 8260B, and;
- TPH-GRO by EPA Method 8015.

Laboratory analytical results are included as **Appendix B**. Soil analytical results are summarized in **Tables 1 through 6**. Groundwater gauging and analytical results are summarized in **Tables 7 through 9**. Soil gas analytical results are summarized in **Table 10**.

5.0 INVESTIGATION RESULTS

The analytical results for the soil, groundwater, and soil gas samples are described in this section. Soil analytical results are presented in Section 5.1. Groundwater analytical results are presented in Section 5.2, and soil gas analytical results are presented in Section 5.3.

5.1 Soil Analytical Results

A total of 12 soil samples collected between 2 and 2.5 feet bgs were analyzed for PAHs by EPA Method 8270C SIM, pesticides by EPA Method 8081A, PCBs by EPA Method 8082, and metals by EPA Method 6010B/7471A. A total of 24 soil samples collected between 5 and 12.5 feet bgs were analyzed for TPH by EPA Method 8015B Modified and VOCs by EPA Method 8260B. The soil samples were analyzed between February 14 and March 26, 2019. Results are provided in **Tables 1 through 6** and summarized in the sections below. Copies of laboratory reports are provided in **Appendix B**.

Detected chemical concentrations were compared against residential soil screening levels established by DTSC and EPA. DTSC soil screening levels (SLs) are identified in HHRA Note 3, which was last update in June 2018 (DTSC, 2018). EPA soil regional screening levels (RSLs) were last updated in November 2018 (EPA, 2018). Detected chemical concentrations were compared against the lower of the DTSC and EPA residential soil screening levels as a conservative approach for protection of human health at the site.

5.1.1 *TPH*

A total of 24 soil samples were analyzed for TPH-GRO by EPA Method 8015B Modified as shown in **Table 1** including a hydrocarbon range of C4-C12. TPH-GRO were detected in 11 of the 24 soil samples (45.8% frequency) at concentrations ranging from 0.054J to 1.4 mg/kg.

A total of 24 soil samples were analyzed for TPH-DRO by EPA Method 8015B Modified as shown in **Table 1** including a hydrocarbon range of C13-C22. TPH-DRO were detected in 12 of the 24 soil samples (50.0% frequency) at concentrations ranging from 1.6J to 68 mg/kg. Although not included in the TPH-DRO concentration reported by the laboratory, some fuel hydrocarbons between C23 and C28 were additionally detected in 12 to 24 soil samples (50% frequency) as shown in **Table 1**.

There are no residential screening levels specifically for TPH-GRO and DRO. However, EPA has residential RSLs for TPH aromatics and aliphatics. TPH-GRO and DRO hydrocarbon ranges will contain low to medium range aromatics and aliphatics, which have RSLs ranging from 82 to 520 mg/kg. The detected TPH-GRO and DRO concentrations in soil at the site are below the entire range of EPA RSLs for low to medium aromatic and aliphatic hydrocarbons. The detected TPH-GRO and DRO concentrations are additionally below the 100 mg/kg threshold referenced in the State Water Resources Control Board (SWRCB) Low Threat Underground Storage Tank Case Closure Policy (SWRCB, 2012).

5.1.2 *VOCs*

A total of 24 soil samples were analyzed for 71 VOCs and fuel oxygenates by EPA Method 8260B as shown in **Table 2**. VOCs were infrequently detected in the soil samples as summarized below:

- Acetone was detected in 1 of 24 soil samples (4.2% frequency) at a concentration of 0.083 mg/kg, which is below the EPA residential RSL of 61,000 mg/kg.
- Benzene was detected in 3 of 24 soil samples (12.5% frequency) at concentrations ranging from 0.0008 to 0.002 mg/kg, which are below the DTSC residential SL of 0.33 mg/kg.
- Toluene was detected in 1 of 24 soil samples (4.2% frequency) at a concentration of 0.0015 mg/kg, which is below the DTSC residential SL of 1,100 mg/kg.

No other VOCs were detected in the soil samples. The detected VOC concentrations did not exceed applicable residential soil screening levels in any soil samples.

5.1.3 *PAHs*

A total of 12 soil samples were analyzed for 18 PAHs by EPA Method 8270C SIM as shown in **Table 3**. Chrysene was the only PAH detected in the soil samples. Chrysene was detected in 1 of 12 soil samples (8.3% frequency) at a concentration of 0.01 mg/kg, which is below the EPA residential RSL of 110 mg/kg. The detected PAH concentration did not exceed applicable residential soil screening levels in any soil samples.

However, one of the soil samples (B-30-2.5) had an elevated laboratory reporting limit (1.0 mg/kg) due to matrix interferences. Although no PAHs were detected in the sample, the elevated laboratory reporting limit exceeds the EPA residential RSL for 2 of the 18 PAHs including benzo(a)pyrene (0.11 mg/kg) and dibenz(a,h)anthracene (0.11 mg/kg).

5.1.4 *Pesticides*

A total of 12 soil samples were analyzed for 20 pesticides by EPA Method 8081A as shown in **Table 4**. 4,4'-Dichlorodiphenyldichloroethylene (4,4'-DDE) was the only pesticide detected in the soil samples. 4,4'-DDE was detected in 2 of 12 soil samples (16.7% frequency) at concentrations of 0.0065 and 0.021 mg/kg, which are below the EPA residential RSL of 2.0 mg/kg. The detected pesticide concentrations did not exceed applicable residential soil screening levels in any soil samples.

However, one of the soil samples (B-30-2.5) had an elevated laboratory reporting limit (0.1 to 2.0 mg/kg) due to matrix interferences. Although no pesticides were detected in the sample, the elevated laboratory reporting limits exceed the EPA residential RSL for 4 of the 20 pesticides including alpha-BHC (0.086 mg/kg), dieldrin (0.034 mg/kg), heptachlor epoxide (0.07 mg/kg), and toxaphene (0.49 mg/kg).

5.1.5 *PCBs*

A total of 12 soil samples were analyzed for nine PCBs by EPA Method 8082 as shown in **Table 5**. No PCBs were detected in any of the soil samples. However, one of the soil samples (B-30-2.5) had an elevated laboratory reporting limit (1.0 mg/kg) due to matrix interferences. Although no PCBs were detected in the sample, the elevated laboratory reporting limit exceeds the EPA residential RSL for 6 of the 9 PCBs including Aroclors 1221 through 1260 (0.17 to 0.24 mg/kg).

5.1.6 *Metals*

A total of 12 soil samples were analyzed for 17 metals by EPA Methods 6010B/7471A as shown in **Table 6**. A total of 13 metals were detected in the soil samples as shown below:

Soil Sample Analytical Results Summary – Metals

Constituent	Samples	Detections	Frequency Detected	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	EPA RSL or DTSC SL[1] (mg/kg)
Arsenic[2]	12	10	83%	1.88	12.1	12
Barium	12	12	100%	33.8	193	15,000
Beryllium	12	10	83%	0.276	0.947	15
Chromium[3]	12	12	100%	4.13	19.7	36,000
Cobalt	12	12	100%	2.37	6.05	23
Copper	12	12	100%	2.32	15.2	3,100
Lead	12	10	83%	1.79	6.43	80
Mercury	12	2	17%	0.0959	0.211	1.0
Molybdenum	12	2	17%	1.08	1.96	390
Nickel	12	12	100%	2.02	10.2	490
Silver	12	1	8%	0.388	0.388	390
Vanadium	12	12	100%	6.51	34.5	390
Zinc	12	12	100%	9.29	31.5	23,000

Notes:
mg/kg = milligrams per kilogram
RSL = Regional Screening Level
SL = Screening Level
[1]The lower of the EPA RSL and DTSC SL
[2]The screening level for arsenic is the background concentration established for southern California by DTSC
[3]The screening level for chromium reflects chrome (III)

None of the detected metal concentrations exceeded applicable residential soil screening levels, except for one arsenic concentration. Arsenic was detected at a concentration of 12.1 mg/kg in soil sample B-31-2.0, which slightly exceeds the upper limit of the background range (12 mg/kg) established by the State for Southern California (DTSC, 2008). Boring B-31 is located in the northeastern portion of the property. The average detected arsenic concentration in soil was 5.2 mg/kg. The 95% upper confidence limit (UCL) of the detected concentrations was also less

than 12 mg/kg, indicating that the prevalence of arsenic in soil above background concentrations appears to be low.

5.2 Groundwater Analytical Results

Groundwater levels were gauged at seven existing groundwater monitoring wells located within the area reported to have been impacted with LNAPL prior to remediation. Groundwater samples were collected from three of the wells (R-9, R-33AS, and R-86AS) and analyzed for VOCs and fuel oxygenates by EPA Method 8260B and for TPH by EPA Method 8015B Modified. The groundwater gauging and sampling event was conducted on March 12. The groundwater samples were analyzed between March 16 and 20, 2019. Results are provided in **Tables 7 through 9** and summarized in the sections below. A copy of the analytical report is provided in **Appendix B**.

5.2.1 *Groundwater Levels*

The depth to groundwater ranged from 12.52 to 19.70 feet below top of casing as shown in **Table 7**. The corresponding water elevations ranged from 44.54 to 45.15 feet above mean sea level, reflecting a rise of approximately 3 feet since last measured in 2015. No floating LNAPL was detected in any of the seven wells using an interface probe.

5.2.2 *TPH*

No TPH-GRO were detected in any of the three samples including hydrocarbon chain lengths between C4 and C12 as shown in **Table 8**. TPH-DRO were detected in all three of the samples in concentrations between 55 and 240 µg/L including hydrocarbon chain lengths between C13 and C22. Although not included in the TPH-DRO concentration reported by the laboratory, some fuel hydrocarbons between C23 and C28 were additionally detected in the R-9 sample as shown in **Table 8**. There are no State or Federal maximum contaminant levels (MCLs) for TPH-DRO.

5.2.3 *VOCs*

No VOCs or fuel oxygenates were detected in any of the three samples as shown in **Table 9**. However, the sample for R-9 was diluted due to matrix interferences, resulting in elevated reporting limits (10 µg/L) above the State MCLs in some cases (e.g., 1 µg/L for benzene). However, no estimated concentrations were reported below the reporting limits and above the method detection limits (i.e., J-flagged results).

5.3 Soil Gas Analytical Results

The soil gas samples were analyzed by the mobile laboratory for VOCs by EPA Method 8260B including fuel oxygenates and GRO. A total of 28 primary soil gas samples and 3 duplicate soil gas samples were analyzed by the mobile laboratory on March 13 and 14, 2019. Samples were

analyzed within 11 to 16 minutes following sample collection. Laboratory results are provided in **Table 10** and shown in **Figure 4**. Copies of the analytical reports are provided in **Appendix B**.

5.3.1 *VOCs*

A total of 14 VOCs and GRO were detected in the soil gas samples as shown in the table below. Benzene, toluene, ethylbenzene, xylenes, GRO, and 1,2,4-trimethylbenzene were the most frequently detected constituents occurring in 68% to 100% of the samples.

Soil Gas Analytical Results Summary

Constituent	Samples	Detections	Frequency Detected	Minimum Concentration (µg/l)	Maximum Concentration (µg/l)	EPA VISL (µg/l)
Benzene	28	19	68%	0.003J	0.120	0.012
Carbon Disulfide	28	4	14%	0.023	0.078	24
Chloromethane	28	6	21%	0.022	0.500	3.1
Ethylbenzene	28	23	82%	0.006J	0.150	0.037
Isopropylbenzene	28	3	11%	0.006	0.0078	14
MTBE	28	2	7%	0.250	0.460	0.360
n-Propylbenzene	28	12	43%	0.0014J	0.022	35
Styrene	28	9	32%	0.0018J	0.0078	35
PCE	28	2	7%	0.0056	0.0066	0.360
Toluene	28	28	100%	0.0062	0.650	170
1,2,4-TMB	28	24	86%	0.0022J	0.080	2.1
1,3,5-TMB	28	13	46%	0.0028J	0.029	2.1
m- & p-Xylenes	28	28	100%	0.0046J	0.610	3.5
o-Xylene	28	26	93%	0.0036J	0.170	3.5
GRO	28	25	89%	37J	490	---

Notes:
MTBE = Methyl-tert-butyl-ether
PCE = Tetrachloroethene
TMB = Trimethylbenzene
GRO = Gasoline Range Organics
VISL = Vapor Intrusion Screening Level (sub-slab and near-source soil gas)
µg/l = micrograms per liter
J = estimated concentration below the report limit but above the method detection limit

EPA has established residential vapor intrusion screening levels (VISLs) for near-source soil gas as shown in the table above. The VISLs are conservatively low screening levels used to assist decision-makers in determining if further evaluation of vapor intrusion risks is warranted. For near-source soil gas, the VISLs assume an attenuation factor of 0.03, resulting in soil gas screening levels that are 33 times greater than the indoor air screening levels. Three VOCs exceed the VISLs in at least one soil gas sample including benzene, ethylbenzene, and MTBE. Because some of the soil gas results exceed the VISLs, further evaluation of the vapor intrusion risks at the site was conducted as described in Section 6.

5.3.2 *Vertical Soil Gas Concentration Trends*

Two soil gas samples were collected at 10 feet bgs including SG20-10 and SG22-10. These locations were co-located with soil gas samples collected at 5 feet bgs including SG20-5 and SG22-5. The results of these co-located samples are compared in the table below:

Soil Gas Concentrations at 5 and 10 feet bgs

Constituent	Concentration (µg/l)			
	SG20-5	SG20-10	SG22-5	SG22-10
1,2,4-TMB	0.008	0.080	0.021	0.0082
1,3,5-TMB	<0.005	0.026	0.0072	<0.005
Benzene	<0.005	0.075	0.013	<0.005
Ethylbenzene	0.010	0.100	0.036	0.010
Isopropylbenzene	<0.005	0.0078	<0.005	<0.005
m- & p-Xylenes	0.041	0.390	0.140	0.036
n-Propylbenzene	<0.005	0.018	0.0044J	<0.005
o-Xylene	0.011	0.140	0.040	0.010
Styrene	<0.005	0.002J	<0.005	<0.005
Toluene	0.033	0.520	0.170	0.019
GRO	170	64	160	<50

Notes:
TMB = Trimethylbenzene
GRO = Gasoline Range Organics
µg/l = micrograms per liter
J = estimated concentration below the report limit but above the method detection limit

VOC concentrations were up to 1 order of magnitude higher at SG20-10 than at SG20-5, except for GRO, indicating that the source of the VOCs was deeper than 5 feet bgs and may be associated with a historical groundwater source. Consequently, VOC concentrations at SG20-5 may increase in the future depending on the rate of soil gas diffusion from deeper soils or groundwater. Conversely, VOC concentrations were generally lower at SG22-10 than at SG22-5, indicating a shallow VOC source. Consequently, VOC concentrations at SG22-5 are unlikely to increase in the future regardless of the soil gas diffusion rate.

5.3.3 *Leak Detection*

2-Propanol was used as a leak detection compound during soil gas sampling, and all 28 soil gas samples were analyzed for the presence of 2-propanol by EPA Method 8260B. However, no 2-propanol was detected in any of the 28 soil gas samples, indicating no leaks with atmosphere during soil gas sampling.

5.4 Data Quality Analysis

This section summarizes the data quality analysis for the soil, groundwater, and soil gas analytical results. The analytical data were validated in accordance with the National Functional Guidelines

for Organic Superfund Methods Data Review (EPA, 2017a) and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA, 2017b). The quality assurance sample results reported by the laboratory were reviewed, and the associated analytical data qualified as needed in accordance with regulatory guidelines.

5.4.1 *Soil Data*

The soil samples were analyzed across eight different sample delivery groups. For each group, quality assurance samples included method blanks, surrogates, matrix spike and matrix spike duplicates (MS/MSDs), and laboratory control sample and laboratory control sample duplicates (LCS/LCSDs). A summary of the data quality analysis is provided in the sections below. Overall, the soil analytical data was determined to be of acceptable quality for purposes of site characterization. None of the laboratory data was rejected.

5.4.1.1 Method Blanks

At least one method blank was analyzed in the same laboratory run as the soil samples by EPA Methods 8015B Modified, 8260B, 8270C SIM, 8081A, 8082, and 6010B/7471A. No TPH-GRO, TPH-DRO, VOCs, PAHs, pesticides, PCBs, or metals were detected in any of the method blank samples, indicating no cross-contamination of the samples by the laboratory equipment.

5.4.1.2 Surrogates

Each of the soil samples were spiked with one to four surrogate compounds of known concentrations to evaluate laboratory data quality. The detected concentrations of the surrogates were compared against the laboratory acceptance criteria. Surrogate recoveries slightly exceeded the control limits for 3 of the 24 TPH-GRO analyses including samples B-20-10, B-24-10, and B-27-12.5. TPH-GRO was detected at concentrations between 0.054J and 0.71 mg/kg in these samples. All remaining surrogate recoveries for TPH-GRO, TPH-DRO, VOCs, PAHs, pesticides, and PCBs were within the acceptance criteria.

5.4.1.3 Matrix Spike and Matrix Spike Duplicates

One of the soil samples from each sample delivery group was spiked with known concentrations for each of the target constituents. The detected concentrations in the MS and MSD were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The relative percent difference (RPD) between the MS and MSD concentrations were additionally evaluated and compared against the laboratory acceptance criteria. The following outliers associated with the soil MS/MSD were noted:

- A small number of the percent recoveries and/or RPDs for metals were outside the acceptance criteria for seven of the eight sample delivery groups.

- The percent recoveries for several PAHs were outside the acceptance limits for the sample delivery group containing boring S-2. However, no PAHs were detected in the soil sample collected from boring S-2.
- The RPD for 4,4'-DDE exceeded the acceptance criteria for the sample delivery group containing boring S-2. 4,4'-DDE was detected at 0.021 mg/kg in sample S-2-2.
- The percent recoveries and RPD for TPH-DRO were outside the acceptance limits for the sample delivery group containing borings B-16 and S-13. No TPH-DRO was detected in the soil samples from boring B-16, but TPH-DRO was detected at concentrations between 11 and 14 mg/kg in boring S-13.

Additional details regarding this data validation review are provided in **Appendix C**.

5.4.1.4 Laboratory Control Sample and Laboratory Control Sample Duplicate

At least one LCS and LCSD were analyzed by the laboratory for each analytical method. The LCS and LCSD contained known concentrations for each of the target constituents under EPA Method 8260B and 8015B. The detected concentrations were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The RPD between the LCS and LCSD concentrations were additionally evaluated and compared against the laboratory acceptance criteria. None of the LCS/LCSD percent recoveries or RPDs exceeded the acceptance criteria except for two marginal exceedances, one for silver and one MTBE, neither of which required qualification of the laboratory results.

5.4.2 *Groundwater Data*

The groundwater samples were analyzed in one sample delivery group. The quality assurance samples in this group included an equipment blank, a trip blank, method blanks, surrogates, MS/MSDs, and LCS/LCSDs. A summary of the data quality analysis is provided in the sections below. Overall, the laboratory groundwater data was determined to be of acceptable quality for purposes of site characterization. None of the laboratory data was rejected, and none of the laboratory data was further qualified beyond what was reported by the laboratory for estimated concentrations below the reporting limit and above the method detection limit.

5.4.2.1 Equipment Blank

One equipment blank was collected and analyzed for VOCs and fuel oxygenates by EPA Method 8260B and for TPH-GRO and diesel range organics by EPA Method 8015B. No VOCs, GRO, or TPH diesel range organics were detected in the equipment blank, indicating no cross-contamination of the groundwater samples by the sampling equipment.

5.4.2.2 Trip Blank

One trip blank was submitted along with the groundwater samples and analyzed for VOCs and fuel oxygenates by EPA Method 8260B. No VOCs or fuel oxygenates were detected in the trip blank sample, indicating no cross-contamination of the groundwater samples during transport to the laboratory.

5.4.2.3 Method Blanks

At least one method blank was analyzed in the same laboratory run as the groundwater samples for EPA Method 8260B and EPA Method 8015B. Two method blanks were analyzed for VOCs and fuel oxygenates, one on March 19 and a second on March 20. No VOCs, fuel oxygenates, TPH-GRO, or TPH diesel range organics were detected in any of the method blank samples, indicating no cross-contamination of the samples by the laboratory equipment.

5.4.2.4 Surrogates

Each of the groundwater samples were spiked with one to four surrogate compounds of known concentrations to evaluate laboratory data quality. The detected concentrations of the surrogates were compared against the laboratory acceptance criteria. The percent recovery of the surrogates was within the acceptance criteria for 100% of the groundwater samples. There were no outliers.

5.4.2.5 Matrix Spike and Matrix Spike Duplicates

One of the groundwater samples was spiked with known concentrations for each of the target constituents. The detected concentrations in the MS and MSD were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The percent recovery was within the acceptance criteria for TPH-GRO and 98.6% of the VOC results. Two of the MSD recoveries for acetone and 1,1-dichloroethene were slightly above the acceptance criteria. The RPD between the MS and MSD concentrations were additionally evaluated and compared against the laboratory acceptance criteria. The RPDs of the MS/MSD sample pair were within acceptance criteria for TPH-GRO and 94.4% of the VOC results. The RPDs for the MS/MSD sample pair exceeded the acceptance criteria for four VOCs including acetone, carbon disulfide, 1,1-dichloroethene, and 1,1,2-trichloro-1,2,2-trifluoromethane. These VOCs were not detected in any of the groundwater samples, and therefore, these minor outliers do not impact the groundwater investigation results.

5.4.2.6 Laboratory Control Sample and Laboratory Control Sample Duplicate

At least one LCS and LCSD were analyzed by the laboratory for each analytical method. The LCS and LCSD contained known concentrations for each of the target constituents under EPA Method 8260B and 8015B. The detected concentrations were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The RPD between the LCS and LCSD concentrations were additionally evaluated and compared

against the laboratory acceptance criteria. The percent recoveries were within the acceptance criteria for 100% of the TPH-GRO, 100% of the TPH diesel range organics, and 99.5% of the VOCs. One of the LCS recoveries for 1,1-dichloroethene was slightly above the acceptance criteria. This VOC was not detected in any of the groundwater samples, and therefore, this minor outlier does not impact the groundwater investigation results. The RPDs for the LCS/LCSD sample pairs were within the acceptance criteria for 100% of the TPH-GRO, TPH diesel range organics, and VOCs (no outliers).

5.4.3 *Soil Gas Data*

The soil gas samples were analyzed in two different sample delivery groups. For each group, quality assurance samples included duplicates, equipment blanks, method blanks, surrogates, and LCS. A summary of the data quality analysis is provided in the sections below. Overall, the laboratory soil gas data was determined to be of acceptable quality for purposes of site characterization. None of the laboratory data was rejected, and none of the laboratory data was further qualified beyond what was reported by the laboratory for estimated concentrations below the reporting limit and above the method detection limit.

5.4.3.1 Duplicate Soil Gas Samples

Three duplicate soil gas samples were collected during the investigation, reflecting a frequency of 11%, including SG12-5-DUP, SG19-5-DUP, and SG20-10-DUP. The duplicate soil gas samples were analyzed in an identical manner as the primary samples. The results of the primary and duplicate soil gas samples are compared in the table below.

Duplicate Soil Gas Sample Results

Constituent	Primary (ug/l)	Duplicate (ug/l)	RPD	<50% RPD	<5xRL and D<2xRL	Acceptable
SG12-5						
m- & p-Xylenes	<0.005	0.0046J	---	---		---
Toluene	0.0062	0.0082	27.8%	Yes		Yes
GRO	37J	33J	11.4%	Yes		Yes
SG19-5						
1,2,4-TMB	0.0022J	0.0024J	8.7%	Yes		Yes
Benzene	0.003J	0.005	50.0%	No	Yes	Yes
m- & p-Xylenes	0.016	0.016	0%	Yes		Yes
Toluene	0.022	0.023	4.4%	Yes		Yes
SG20-10						
1,2,4-TMB	0.080	0.078	2.5%	Yes		Yes
1,3,5-TMB	0.026	0.022	16.7%	Yes		Yes
Benzene	0.075	0.070	6.9%	Yes		Yes
Ethylbenzene	0.100	0.100	0%	Yes		Yes
Isopropylbenzene	0.0078	0.0052	40.0%	Yes		Yes

Constituent	Primary (ug/l)	Duplicate (ug/l)	RPD	<50% RPD	<5xRL and D<2xRL	Acceptable
m- & p-Xylenes	0.390	0.390	0%	Yes		Yes
n-Propylbenzene	0.018	0.018	0%	Yes		Yes
o-Xylenes	0.140	0.120	15.4%	Yes		Yes
Styrene	0.002J	0.0044J	75.0%	No	Yes	Yes
Toluene	0.520	0.520	0%	Yes		Yes
GRO	64	74	14.5%	Yes		Yes

Notes:
TMB = Trimethylbenzene
GRO = Gasoline Range Organics
µg/l = micrograms per liter
RPD = relative percent difference
RL = reporting limit
D = difference
J = estimated concentration below the reporting limit but above the method detection limit

The RPD between the primary and duplicate samples were calculated. RPDs less than 50% are generally considered to have acceptable reproducibility. For low VOC concentrations less than 5 times the reporting limit, RPDs greater than 50% RPD can be acceptable providing that the difference between the primary and duplicate sample results is less than 2 times the reporting limit. As shown in the table above, 100% of the duplicate sample results were less than 50% RPD or otherwise determined to be acceptable. There were no outliers, indicating an acceptable level of reproducibility for the soil gas data.

5.4.3.2 Equipment Blanks

One equipment blank was analyzed by the mobile laboratory at the start of each day. No VOCs or GRO were detected in either of the two equipment blanks, indicating no cross-contamination of the sampling equipment.

5.4.3.3 Method Blanks

One method blank was analyzed by the mobile laboratory at the start of each day and prior to analyzing any soil gas samples. No VOCs or GRO were detected in either of the two method blanks, indicating no cross-contamination of the analytical equipment.

5.4.3.4 Surrogates

Each of the soil gas samples were spiked with three surrogate compounds of known concentrations to evaluate laboratory data quality. The detected concentrations of the surrogates were compared against the laboratory acceptance criteria. The percent recovery of the three surrogates was within the acceptance criteria for 100% of the soil gas samples. There were no outliers.

5.4.3.5 Laboratory Control Samples

An LCS was analyzed by the mobile laboratory each work day. The LCS contained known concentrations for each of the target constituents under EPA Method 8260B. The detected concentrations in the LCS were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The percent recovery was within the acceptance criteria for 100% of the constituents in the LCS. There were no outliers.

6.0 VAPOR INTRUSION HEALTH RISK ASSESSMENT

Future vapor intrusion risks were evaluated using Johnson & Ettinger screening models from DTSC and EPA. The DTSC model (DTSC, 2014) was widely used to evaluate vapor intrusion risks through 2018. However, DTSC is currently revising the model to reflect consistent assumptions across the various State agencies, and an updated model is expected to be published in 2019. In the interim, the DTSC has archived the current vapor intrusion model pending release of the updated version. For this reason, the EPA model (EPA, 2017c) was additionally used to evaluate future vapor intrusion risks at the site.

The updated DTSC model is expected to assume larger attenuation factors between soil gas and indoor air which translates to less attenuation of constituents as they migrate in the subsurface and into structures. This change will increase the vapor intrusion risks posed by VOC concentrations in soil gas. Potential future changes in the DTSC model should be considered in evaluating the soil gas data from the site. Vapor intrusion risks slightly below the screening threshold cancer risk of 1E-6 under the current model could be greater than the risk threshold under the future updated model.

San Diego County Department of Environmental Health (DEH) additionally offers a vapor intrusion screening model (Vapor Risk 2000). However, the County model is outdated (DEH, 2010) and appears to underestimate the risk in comparison with the DTSC and EPA models. For these reasons, the County model was not used to evaluate future vapor intrusion risks at the site.

The potential risks to human health from vapor intrusion of VOCs to indoor air was evaluated for both cancer and non-cancer risks. The cumulative risk at each soil gas point was evaluated by summing the individual risks posed by each detected constituent in soil gas. Benzene, ethylbenzene, PCE, and MTBE contributed to the cumulative cancer risk (the remaining detected VOCs are not carcinogenic). All detected VOCs contributed to the cumulative non-cancer risk. GRO was not evaluated for vapor intrusion as these organics are a group of aliphatic and aromatic hydrocarbons, rather than a single chemical. Additionally, the DTSC and EPA models do not include GRO as a constituent of concern, although the EPA model includes risk factors for specific hydrocarbon chain lengths.

The cancer and non-cancer risk thresholds are 1E-6 and 1.0 respectively. Risks below these thresholds do not pose an unacceptable or increased human health risk. DTSC and EPA have authority to accept cancer risks between 1E-6 and 1E-4. According to the DTSC Vapor Intrusion Guidance, cancer risks between this range may require further monitoring and/or mitigation. Cancer risks exceeding 1E-4 are considered unacceptable and require mitigation in accordance with regulatory requirements (DTSC, 2011).

6.1 Vapor Intrusion Risks

The results of the DTSC and EPA vapor intrusion screening models are shown in **Tables 11 and 12**, respectively. These tables show the estimated cancer and non-cancer risks by constituent. A

summary table of vapor intrusion risks is provided in **Table 13**. The DTSC vapor intrusion risk results are shown on **Figure 5**.

The cumulative cancer risks varied from zero to a maximum of 1.76E-6. The estimated cumulative cancer risks exceeded 1E-6 in four samples including SG2-5, SG7-5, SG8-5, and SG18-5.

- SG2-5 is located in the north-central portion of the property and within the proposed footprint of the hotel.
- SG-7 and SG-8 are located south of the current stadium and outside the proposed footprint of residential buildings.
- SG18-5 is located north of the current stadium and within the proposed footprint of a residential building.

The cumulative cancer risks exceeding 1E-6 were estimated using the DTSC model. The corresponding cumulative cancer risks estimated using the EPA model for these 4 samples ranged from 3.80E-7 to 5.63E-07. The cancer risks estimated by the EPA model were consistently lower than the risks estimated by the DTSC model. Although the cancer risks for ethylbenzene were similar, the cancer risks for benzene were lower using the EPA model.

Additionally, there were six soil gas samples with cumulative cancer risks between 4.08E-7 and 9.26E-7 and approaching the 1E-6 risk threshold including SG1-5, SG4-5, SG6-5, SG10-5, SG14-5, and SG15-5. The cumulative cancer risk at SG20-10 also approached the 1E-6 risk threshold (7.79E-7), but the cancer risk at co-located SG20-5 was substantially lower (1.10E-8). Although the cumulative cancer risks are below the risk threshold of 1E-6 using the current DTSC model, the model is being updated by the State. Once the updated model is available, the estimated cumulative cancer risks from vapor intrusion are expected to increase and could exceed the 1E-6 threshold. For this reason, these results are highlighted in this report to provide an awareness of potential future vapor intrusion risks under the revised DTSC model.

The cumulative non-cancer risks varied from 1.65E-6 to a maximum of 6.20E-2. None of the estimated cumulative non-cancer risks exceeded the 1.0 hazard index risk threshold using either the DTSC or EPA model.

7.0 CONCLUSIONS AND RECOMMENDATIONS

A limited environmental investigation was conducted at the SDSU Mission Valley site in advance of property redevelopment to evaluate the presence of residual contamination associated with historical operations at the adjacent Kinder Morgan Terminal site. Soil and groundwater remediation were previously conducted at the property. The remedy consisted of groundwater extraction and drawdown combined with soil vapor extraction. Under RWQCB oversight, the soil and groundwater remediation activities were concluded in 2014, and post-remediation monitoring was concluded in 2015. Although a No Further Action (NFA) case closure letter has not been issued by RWQCB for the SDSU Mission Valley site, RWQCB did approve discontinuance of site remediation and post-remediation monitoring activities.

To confirm the environmental quality of soils and groundwater at the site and evaluate for residual contamination, a total of 36 soil samples were collected from 12 borings at depths of approximately 2, 5, and 10 feet bgs. Groundwater samples were collected from three pre-existing monitoring wells within the uppermost water-bearing zone and within a former LNAPL source area. A total of 28 soil gas samples were additionally collected from 26 locations at depths of 5 or 10 feet bgs.

7.1 Conclusions

The following conclusions are based on the results of the limited environmental investigation conducted at the SDSU Mission Valley site in February and March 2019:

- Soil: Although some residual TPH-GRO and DRO concentrations were detected in the shallow soils, none of the concentrations exceeded applicable residential screening levels. Furthermore, VOCs, PAHs, and pesticides were infrequently detected at low concentrations below applicable residential screening levels. Metals were frequently detected in shallow soils but at concentrations below applicable residential screening levels or background concentrations, with one exception. Arsenic was detected at a concentration of 12.1 mg/kg in sample B-31-2, slightly exceeding the background concentration of 12 mg/kg established by DTSC for Southern California.

- Groundwater: A total of seven groundwater monitoring wells within the former LNAPL footprint were gauged with an interface probe, but no LNAPL was detected by the probe in any of the wells. A total of three groundwater monitoring wells were sampled and tested for the presence of TPH-GRO, TPH-DRO, and VOCs. TPH-DRO was detected in all three groundwater samples at low concentrations below applicable residential screening levels. No TPH-GRO or VOCs were detected in the groundwater samples above the laboratory method detection limits.

- Soil Gas: A total of 28 soil gas samples were tested for the presence of VOCs and TPH-GRO. VOCs were widely detected in soil gas at relatively low concentrations, most notably benzene, ethylbenzene, toluene, xylenes, and 1,2,4-trimethylbenzene. TPH-GRO was also

widely detected in soil gas. Benzene, ethylbenzene, and MTBE were detected in soil gas at concentrations exceeding the EPA VISLs in at least one sample.

- Vapor Intrusion Risks: The soil gas concentrations were used to evaluate vapor intrusion risks using both the DTSC and EPA screening models. The estimated cumulative carcinogenic risks exceeded the threshold risk of 1E-6 at four soil gas sample locations and approached the threshold concentration at another six soil gas sample locations. DTSC is currently revising the vapor intrusion screening model, and the estimated human health risks may increase in the future if the model is revised as currently expected. None of the estimated cumulative non-carcinogenic risks exceeded the threshold hazard index of 1.0.

7.2 Recommendations

The following recommendations are based on the results of the limited environmental investigation conducted at the SDSU Mission Valley project site in February and March 2019:

1. Ensure that future surficial soils do not contain arsenic in concentrations exceeding the background concentration of 12 mg/kg. If existing soils are to be re-used and re-graded at surface, it is recommended that limited post-grading testing of surficial soils for arsenic be considered for soils within the vicinity of boring B-31.

2. It is recommended that vapor mitigation be considered for future residential buildings with estimated cumulative cancer risks exceeding 1E-6 under current or likely future vapor intrusion models. According to the DTSC Vapor Intrusion Guidance (DTSC, 2011), vapor mitigation is not necessarily required for cumulative cancer risks exceeding 1E-6. The State has authority to determine if vapor mitigation is required for cumulative cancer risks between 1E-6 and 1E-4. However, without State involvement, it is recommended that vapor mitigation be considered for cumulative cancer risks exceeding 1E-6 or likely to exceed 1E-6 once the DTSC model is updated. Widespread fuel hydrocarbons including carcinogens benzene and ethylbenzene were detected in shallow soil gas at the site. It is recommended that vapor mitigation be considered as a conservative approach to eliminate future liability associated with residual fuel hydrocarbons in shallow soil gas at the site. It is recommended that any vapor mitigation implemented at the Site is done in accordance with the DTSC Vapor Intrusion Mitigation Advisory (DTSC, 2011). A typical vapor mitigation system comprises of a sub-slab geomembrane or vapor barrier installed throughout the entire footprint of the building. Sub-slab ventilation piping is installed below the geomembrane layer for capturing VOCs in the soil gas and discharging them above the building roof through vent stacks. Optional blowers can be connected to the vent piping at the roofline for conversion of a passive venting system into an active system, if necessary.

3. The groundwater monitoring wells, remediation wells, and associated piping should be properly abandoned in accordance with local and State regulatory requirements prior to

site redevelopment and after the RWQCB submits an NFA case closure letter to Kinder Morgan. In the event an NFA case closure letter is not received prior to site redevelopment, SDSU should coordinate with Kinder Morgan for modifications and access to the existing groundwater monitoring wells, remediation wells, and associated piping to avoid conflict with the project schedule.

8.0 REFERENCES

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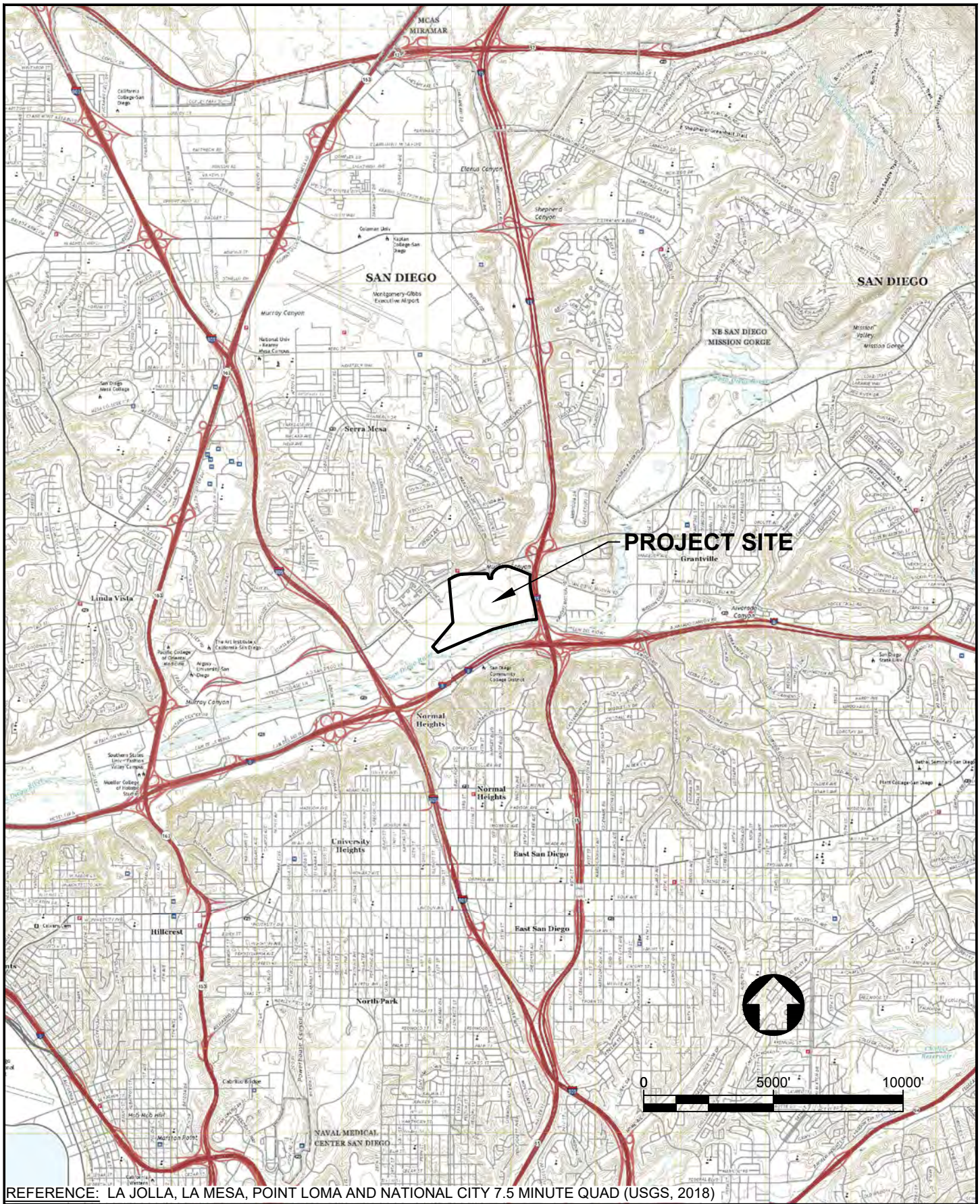
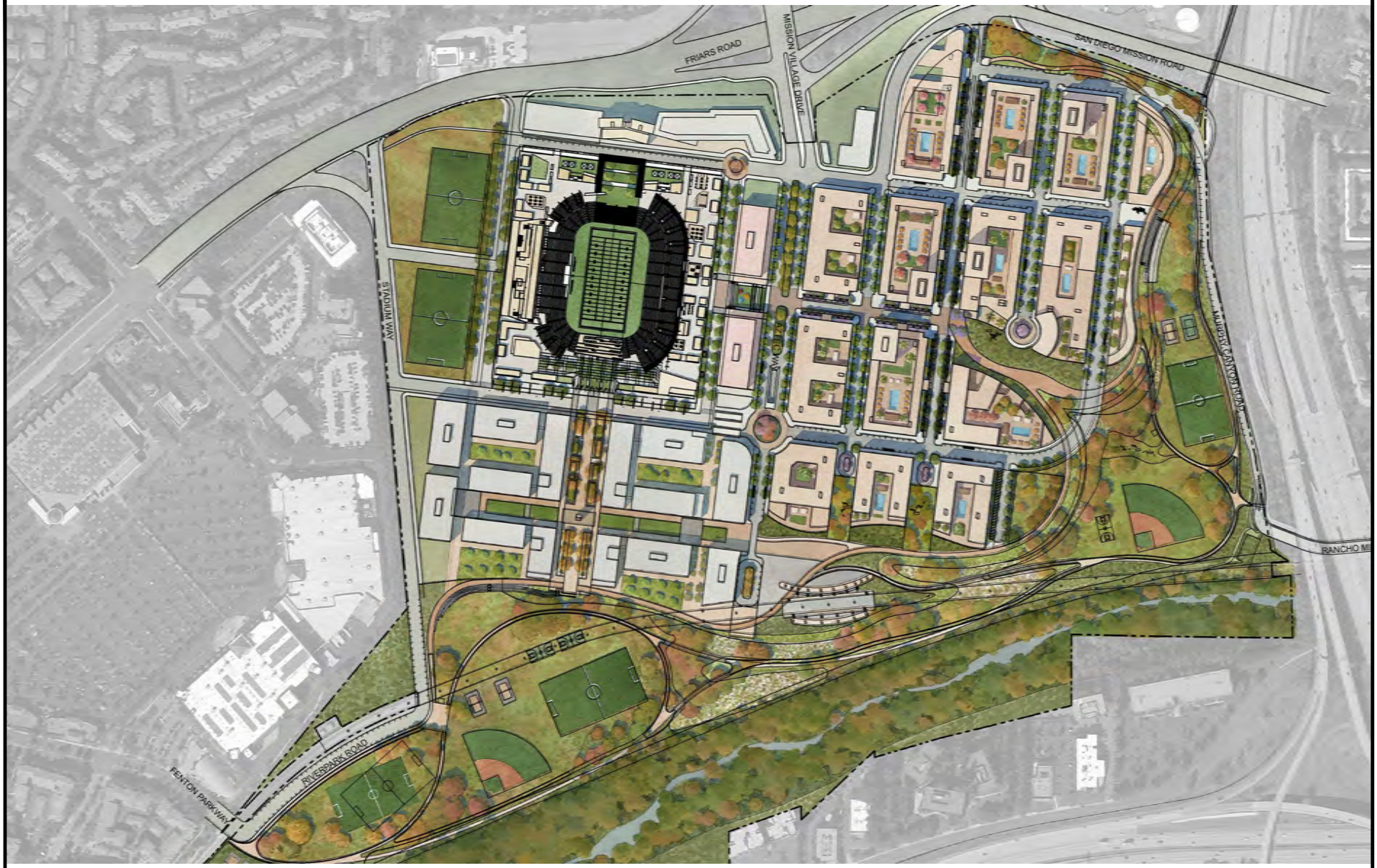
United States Environmental Protection Agency (2018), *Regional Screening Levels (RSLs) updated November*. https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables

Figures



REFERENCE: LA JOLLA, LA MESA, POINT LOMA AND NATIONAL CITY 7.5 MINUTE QUAD (USGS, 2018)

SDSU MISSION VALLEY SAN DIEGO, CALIFORNIA	SITE LOCATION	GROUP DELTA	
		PROJECT NUMBER: SD605	FIGURE NUMBER: 1



REFERENCE: MAP PROVIDED BY RICK ENGINEERING COMPANY, DATED 2/12/2019

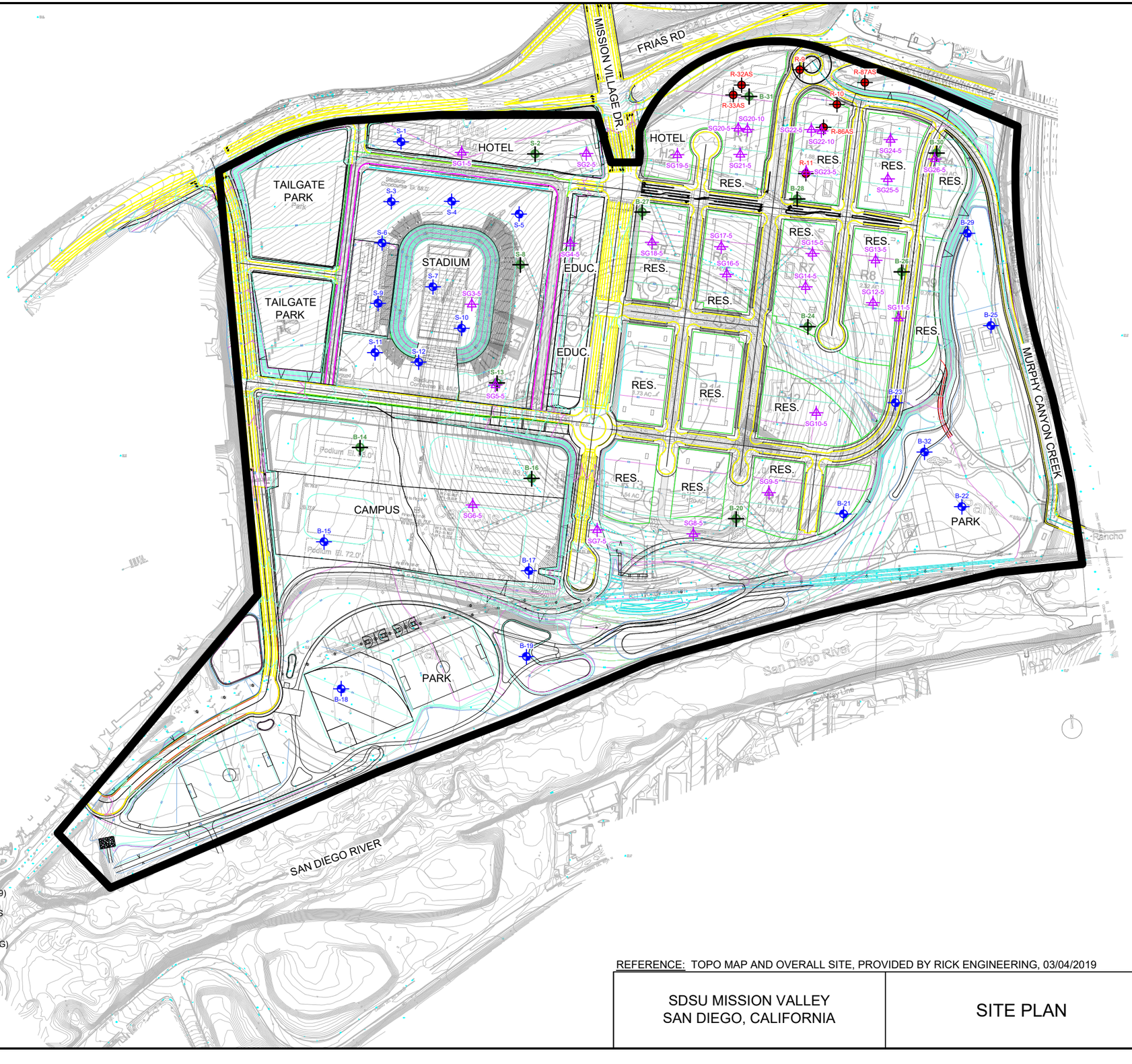
0 500' 1000'

SDSU MISSION VALLEY
SAN DIEGO, CALIFORNIA

PROPOSED DEVELOPMENT

GROUP DELTA

PROJECT NUMBER:	FIGURE NUMBER:
SD605	2



LEGEND:

- S-1 — GEOTECHNICAL BORING LOCATIONS (GROUP DELTA, 2019)
- S-2 — GEOTECHNICAL AND EVIRONMENTAL BORING LOCATIONS (GROUP DELTA, 2019)
- R-9 — MONITORING WELL LOCATIONS (SELECTED, PRE EXISTING)
- SG1-5 — SOIL GAS BORING LOCATIONS (GROUP DELTA, 2019)

REFERENCE: TOPO MAP AND OVERALL SITE, PROVIDED BY RICK ENGINEERING, 03/04/2019

SDSU MISSION VALLEY SAN DIEGO, CALIFORNIA	SITE PLAN	GROUP DELTA PROJECT NUMBER: SD605 FIGURE NUMBER: 3

SG1-5	
Benzene	**0.0290**
Ethylbenzene	**0.0780**
meta- and para- Xylenes	**0.3300**
ortho-Xylene	**0.0990**
Toluene	**0.3300**
1,2,4-Trimethylbenzene	**0.0270**

SG2-5	
Benzene	**0.0790**
Ethylbenzene	**0.0460**
meta- and para- Xylenes	**0.1600**
ortho-Xylene	**0.0430**
Toluene	**0.3000**
1,2,4-Trimethylbenzene	**0.0150**

SG19-5	
Benzene	**0.0050**
Ethylbenzene	<0.01
meta- and para- Xylenes	**0.0160**
ortho-Xylene	<0.005
Toluene	**0.0230**
1,2,4-Trimethylbenzene	**0.0024 J**

SG20-5	
Benzene	<0.005
Ethylbenzene	**0.0100**
meta- and para- Xylenes	**0.0410**
ortho-Xylene	**0.0110**
Toluene	**0.0330**
1,2,4-Trimethylbenzene	**0.0080**

SG22-5	
Benzene	**0.0130**
Ethylbenzene	**0.0360**
meta- and para- Xylenes	**0.1400**
ortho-Xylene	**0.0400**
Toluene	**0.1700**
1,2,4-Trimethylbenzene	**0.0210**

SG22-10	
Benzene	<0.005
Ethylbenzene	**0.0100**
meta- and para- Xylenes	**0.0360**
ortho-Xylene	**0.0100**
Toluene	**0.0190**
1,2,4-Trimethylbenzene	**0.0082**

SG20-10	
Benzene	**0.0750**
Ethylbenzene	**0.1000**
meta- and para- Xylenes	**0.3900**
ortho-Xylene	**0.1400**
Toluene	**0.5200**
1,2,4-Trimethylbenzene	**0.0800**

SG24-5	
Benzene	<0.005
Ethylbenzene	<0.01
meta- and para- Xylenes	**0.0180**
ortho-Xylene	**0.0036 J**
Toluene	**0.0190**
1,2,4-Trimethylbenzene	**0.0056**

SG18-5	
Benzene	**0.1200**
Ethylbenzene	**0.0570**
meta- and para- Xylenes	**0.2200**
ortho-Xylene	**0.0690**
Toluene	**0.4100**
1,2,4-Trimethylbenzene	**0.0210**

SG26-5	
Benzene	**0.0160**
Ethylbenzene	**0.0570**
meta- and para- Xylenes	**0.2100**
ortho-Xylene	**0.0750**
Toluene	**0.2200**
1,2,4-Trimethylbenzene	**0.0380**

SG4-5	
Benzene	**0.0300**
Ethylbenzene	**0.0210**
meta- and para- Xylenes	**0.0800**
ortho-Xylene	**0.0230**
Toluene	**0.1400**
1,2,4-Trimethylbenzene	**0.0120**

SG25-5	
Benzene	<0.005
Ethylbenzene	**0.0100**
meta- and para- Xylenes	**0.0480**
ortho-Xylene	**0.0180**
Toluene	**0.0320**
1,2,4-Trimethylbenzene	**0.0120**

SG23-5	
Benzene	<0.005
Ethylbenzene	**0.008 J**
meta- and para- Xylenes	**0.0300**
ortho-Xylene	**0.0092**
Toluene	**0.0190**
1,2,4-Trimethylbenzene	**0.0086**

SG3-5	
Benzene	**0.0076**
Ethylbenzene	**0.0090 J**
meta- and para- Xylenes	**0.0350**
ortho-Xylene	**0.0120**
Toluene	**0.0360**
1,2,4-Trimethylbenzene	**0.0082**

SG21-5	
Benzene	**0.0120**
Ethylbenzene	**0.0240**
meta- and para- Xylenes	**0.1000**
ortho-Xylene	**0.0390**
Toluene	**0.0990**
1,2,4-Trimethylbenzene	**0.0290**

SG5-5	
Benzene	<0.005
Ethylbenzene	<0.01
meta- and para- Xylenes	**0.0280**
ortho-Xylene	**0.0066**
Toluene	**0.0220**
1,2,4-Trimethylbenzene	**0.0050**

SG13-5	
Benzene	<0.005
Ethylbenzene	**0.0064 J**
meta- and para- Xylenes	**0.0220**
ortho-Xylene	**0.0056**
Toluene	**0.0200**
1,2,4-Trimethylbenzene	<0.005

SG6-5	
Benzene	**0.030**
Ethylbenzene	**0.026**
meta- and para- Xylenes	**0.094**
ortho-Xylene	**0.032**
Toluene	**0.140**
1,2,4-Trimethylbenzene	**0.015**

SG11-5	
Benzene	<0.005
Ethylbenzene	**0.0060 J**
meta- and para- Xylenes	**0.0330**
ortho-Xylene	**0.0084**
Toluene	**0.0170**
1,2,4-Trimethylbenzene	**0.0052**

SG7-5	
Benzene	**0.0600**
Ethylbenzene	**0.1500**
meta- and para- Xylenes	**0.6100**
ortho-Xylene	**0.1700**
Toluene	**0.6500**
1,2,4-Trimethylbenzene	**0.0700**

SG8-5	
Benzene	**0.0940**
Ethylbenzene	**0.0880**
meta- and para- Xylenes	**0.3200**
ortho-Xylene	**0.0930**
Toluene	**0.5400**
1,2,4-Trimethylbenzene	**0.0300**

SG10-5	
Benzene	**0.0620**
Ethylbenzene	**0.0320**
meta- and para- Xylenes	**0.1000**
ortho-Xylene	**0.0300**
Toluene	**0.2300**
1,2,4-Trimethylbenzene	**0.0076**

SG15-5	
Benzene	**0.0280**
Ethylbenzene	**0.0078 J**
meta- and para- Xylenes	**0.0250**
ortho-Xylene	**0.0088**
Toluene	**0.0600**
1,2,4-Trimethylbenzene	<0.005

SG12-5	
Benzene	<0.005
Ethylbenzene	<0.005
meta- and para- Xylenes	**0.0046 J**
ortho-Xylene	<0.005
Toluene	**0.0082**
1,2,4-Trimethylbenzene	<0.005

SG17-5	
Benzene	**0.0064**
Ethylbenzene	<0.01
meta- and para- Xylenes	**0.0140**
ortho-Xylene	**0.0054**
Toluene	**0.0250**
1,2,4-Trimethylbenzene	<0.005

SG16-5	
Benzene	**0.0046 J**
Ethylbenzene	**0.0070 J**
meta- and para- Xylenes	**0.0290**
ortho-Xylene	**0.0078**
Toluene	**0.0390**
1,2,4-Trimethylbenzene	**0.0064**

SG9-5	
Benzene	**0.0170**
Ethylbenzene	**0.0510**
meta- and para- Xylenes	**0.2300**
ortho-Xylene	**0.0640**
Toluene	**0.1800**
1,2,4-Trimethylbenzene	**0.0220**

SG14-5	
Benzene	**0.0310**
Ethylbenzene	**0.0110**
meta- and para- Xylenes	**0.0290**
ortho-Xylene	**0.0070**
Toluene	**0.0880**
1,2,4-Trimethylbenzene	**0.0048 J**

NOTES:

1. SOIL GAS SAMPLES WERE COLLECTED ON MARCH 13 AND 14, 2019, AND CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER USING US EPA METHOD 8260B.
2. DETECTIONS ARE SHOWN AS BOLD. ANALYTES NOT DETECTED ARE SHOWN BELOW THE REPORTING LIMIT INDICATED (<0.005 OR <0.01).
3. THE HIGHEST REPORTED CONCENTRATION IS POSTED IN THE EVENT WHERE PRIMARY AND DUPLICATE SAMPLES WERE COLLECTED.
4. J-FLAG (J) INDICATES DETECTIONS BELOW THE REPORTING LIMIT; THEREFORE, THE REPORTED CONCENTRATION IS ESTIMATED.
5. REFER TO ENVIRONMENTAL SUPPORT TECHNOLOGIES ANALYTICAL REPORTS DATED MARCH 18 AND 19, 2019, FOR ADDITIONAL VOLATILE ORGANIC COMPOUNDS DETECTED AT THE SITE.

LEGEND:

- S-1 — GEOTECHNICAL BORING LOCATIONS (GROUP DELTA, 2019)
- S-2 — GEOTECHNICAL AND EVIRONMENTAL BORING LOCATIONS (GROUP DELTA, 2019)
- R-9 — MONITORING WELL LOCATIONS (SELECTED, PRE EXISTING)
- SG1-5 — SOIL GAS BORING LOCATIONS (GROUP DELTA, 2019)

0 200' 400'

REFERENCE: TOPO MAP AND OVERALL SITE, PROVIDED BY RICK ENGINEERING, 03/04/2019

SDSU MISSION VALLEY SAN DIEGO, CALIFORNIA	SOIL GAS CONCENTRATIONS	GROUP DELTA	
		PROJECT NUMBER: SD605	FIGURE NUMBER: 4

SG1-5	
Cancer Risk	4.94E-07
Hazardous Index	2.41E-02

SG2-5	
Cancer Risk	1.15E-06
Hazardous Index	4.65E-02

SG19-5	
Cancer Risk	4.30E-08
Hazardous Index	1.92E-03

SG20-5	
Cancer Risk	1.10E-08
Hazardous Index	1.96E-03

SG20-10	
Cancer Risk	7.79E-07
Hazardous Index	3.57E-02

SG22-5	
Cancer Risk	2.19E-07
Hazardous Index	1.20E-02

SG22-10	
Cancer Risk	6.90E-09
Hazardous Index	1.20E-03

SG24-5	
Cancer Risk	0.00E+00
Hazardous Index	1.20E-03

SG26-5	
Cancer Risk	2.91E-07
Hazardous Index	1.75E-02

SG25-5	
Cancer Risk	1.10E-08
Hazardous Index	2.81E-03

SG23-5	
Cancer Risk	8.60E-09
Hazardous Index	1.85E-03

SG18-5	
Cancer Risk	1.76E-06
Hazardous Index	6.20E-02

SG4-5	
Cancer Risk	4.82E-07
Hazardous Index	1.93E-02

SG3-5	
Cancer Risk	1.74E-07
Hazardous Index	5.87E-03

SG21-5	
Cancer Risk	1.96E-07
Hazardous Index	1.21E-02

SG5-5	
Cancer Risk	0.00E+00
Hazardous Index	1.27E-03

SG13-5	
Cancer Risk	6.90E-09
Hazardous Index	4.04E-04

SG6-5	
Cancer Risk	4.58E-07
Hazardous Index	1.88E-02

SG7-5	
Cancer Risk	1.01E-06
Hazardous Index	5.00E-02

SG11-5	
Cancer Risk	6.50E-09
Hazardous Index	1.37E-03

SG8-5	
Cancer Risk	1.40E-06
Hazardous Index	5.36E-02

SG10-5	
Cancer Risk	9.26E-07
Hazardous Index	3.93E-02

SG15-5	
Cancer Risk	4.08E-07
Hazardous Index	1.26E-02

SG12-5	
Cancer Risk	0.00E+00
Hazardous Index	2.60E-05

SG17-5	
Cancer Risk	9.10E-08
Hazardous Index	3.22E-03

SG16-5	
Cancer Risk	7.25E-08
Hazardous Index	3.61E-03

SG9-5	
Cancer Risk	3.09E-07
Hazardous Index	1.56E-02

SG14-5	
Cancer Risk	4.52E-07
Hazardous Index	1.57E-02

NOTES:

1. THE CANCER RISK AND HAZARDOUS INDEX WERE CALCULATED USING THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL'S MODEL (DECEMBER 2014) WHICH WAS MODIFIED BASED ON UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S MODEL (JOHNSON AND ETTINGER).
2. CANCER RISK RESULTS EXCEEDING ONE IN A MILLION (1.00E-06) ARE HIGHLIGHTED IN YELLOW. CANCER RISK RESULTS APPROACHING ONE IN A MILLION ARE SHOWN IN RED BOXES.

LEGEND:

- S-1 — GEOTECHNICAL BORING LOCATIONS (GROUP DELTA, 2019)
- S-2 — GEOTECHNICAL AND EVIRONMENTAL BORING LOCATIONS (GROUP DELTA, 2019)
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- SG1-5 — SOIL GAS BORING LOCATIONS (GROUP DELTA, 2019)

0 200' 400'

REFERENCE: TOPO MAP AND OVERALL SITE, PROVIDED BY RICK ENGINEERING, 03/04/2019

SDSU MISSION VALLEY
SAN DIEGO, CALIFORNIA

VAPOR INTRUSION RISK RESULTS

GROUP DELTA

PROJECT NUMBER:	FIGURE NUMBER:
SD605	5

Tables

Table 1
TPH in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (Feet)	Sample Date	C4-C5	C6	C7	C8	C9-C10	C11-C12	TPH-GRO Total	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	TPH-DRO Total	C23-C24	C25-C26	C27-C28
S-2	5.0	2/19/2019	*<0.068*	*<0.068*	*<0.068*	*<0.068*	*<0.068*	*<0.068*	*<0.068*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	**2.0 J**	**3.7 J**
	10.0		*<0.072*	*<0.072*	*<0.072*	*<0.072*	*<0.072*	*<0.072*	*<0.072*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	**1.3 J**	**2.1 J**	*<5.0*	*<5.0*	*<5.0*
S-8	5.0	3/14/2019	*<0.070*	*<0.070*	*<0.070*	*<0.070*	*<0.070*	*<0.070*	*<0.070*	**5.1 J**	*<5.2*	**2.3 J**	**5.1 J**	**10**	**23**	**15**	**20**	**23**
	10.0		**0.11**	*<0.093*	*<0.093*	*<0.093*	*<0.093*	*<0.093*	**0.15**	**10**	*<5.0*	**3.3 J**	**4.8 J**	**7.1**	**27**	**11**	**11**	**17**
S-13	5.0	2/13/2019	*<0.074*	**0.023 J**	*<0.074*	**0.065 J**	**0.77**	**0.44**	**1.3**	**6.7**	*<5.0*	*<5.0*	**2.1 J**	**4.2 J**	**14**	**6.6**	**8.6**	**10**
	10.0		*<0.077*	*<0.077*	*<0.077*	*<0.077*	**0.12**	**0.11**	**0.27**	**3.9 J**	*<5.0*	*<5.0*	**1.9 J**	**4.7 J**	**11**	**10**	**11**	**12**
B-14	5.0	3/13/2019	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*
	10.0		*<0.074*	*<0.074*	*<0.074*	*<0.074*	**0.028 J**	*<0.074*	**0.061 J**	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
B-16	5.0	2/13/2019	*<0.074*	*<0.074*	*<0.074*	*<0.074*	*<0.074*	*<0.074*	*<0.074*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
	10.0		*<0.071*	*<0.071*	*<0.071*	*<0.071*	*<0.071*	**0.036 J**	**0.083**	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*
B-20	6.0	2/27/2019	*<0.074*	*<0.074*	**0.049 J**	**0.11**	**1.2**	*<0.074*	**1.4**	**3.5 J**	*<4.9*	*<4.9*	*<4.9*	**1.3 J**	**5.1**	**1.8 J**	**4.4 J**	**7.1**
	10.0		*<0.081*	*<0.081*	**0.032 J**	**0.030 J**	**0.18**	*<0.081*	**0.24**	*<4.8*	*<4.8*	*<4.8*	*<4.8*	*<4.8*	*<4.8*	*<4.8*	*<4.8*	*<4.8*
B-24	5.0	3/12/2019	*<0.085*	*<0.085*	*<0.085*	*<0.085*	**0.25**	**0.13**	**0.42**	**47**	**1.5 J**	**1.4 J**	**5.3**	**12**	**68**	**19**	**18**	**21**
	10.0		*<0.080*	*<0.080*	*<0.080*	*<0.080*	*<0.080*	*<0.080*	**0.054 J**	*<5.0*	*<5.0*	*<5.0*	**2.6 J**	**8.5**	**12**	**18**	**23**	**27**
B-26	5.0	3/15/2019	*<0.11*	*<0.11*	*<0.11*	*<0.11*	*<0.11*	*<0.11*	*<0.11*	*<5.1*	*<5.1*	*<5.1*	**1.5 J**	**2.2 J**	**4.1 J**	*<5.1*	*<5.1*	*<5.1*
	10.0		*<0.079*	*<0.079*	*<0.079*	*<0.079*	*<0.079*	*<0.079*	*<0.079*	*<5.3*	*<5.3*	*<5.3*	*<5.3*	*<5.3*	*<5.3*	*<5.3*	*<5.3*	*<5.3*
B-27	5.0	3/15/2019	**0.093**	*<0.086*	*<0.086*	**0.031 J**	**0.12**	*<0.086*	**0.32**	*<4.9*	*<4.9*	*<4.9*	*<4.9*	**3.0 J**	**3.6 J**	**6.3**	**7.3**	**10**
	12.5		**0.36**	**0.11**	**0.092 J**	**0.065 J**	**0.060 J**	*<0.095*	**0.71**	*<5.1*	*<5.1*	*<5.1*	*<5.1*	*<5.1*	**1.6 J**	*<5.1*	*<5.1*	*<5.1*
B-28	5.0	3/16/2019	*<0.086*	*<0.086*	*<0.086*	*<0.086*	*<0.086*	*<0.086*	*<0.086*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
	10.0		*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<0.089*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
B-30	5.0	3/16/2019	*<0.073*	*<0.073*	*<0.073*	*<0.073*	*<0.073*	*<0.073*	*<0.073*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*	*<5.0*
	10.0		*<0.098*	*<0.098*	*<0.098*	*<0.098*	*<0.098*	*<0.098*	*<0.098*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	*<4.9*	**4.5 J**
B-31	5.0	3/16/2019	*<0.096*	*<0.096*	*<0.096*	*<0.096*	*<0.096*	*<0.096*	*<0.096*	*<25*	*<25*	*<25*	*<25*	*<25*	**9.5 J**	**20 J**	**40**	**78**
	10.0		*<0.083*	*<0.083*	*<0.083*	*<0.083*	*<0.083*	*<0.083*	*<0.083*	*<24*	*<24*	*<24*	*<24*	*<24*	*<24*	**14 J**	**28**	**53**

Notes:

TPH Total Petroleum Hydrocarbons
GRO Gasoline Range Organics
DRO Diesel Range Organics
J results greater than or equal to method detection limit, but less than reporting limit
Bold indicates detected concentration
<0.0 not detected above the indicated reporting limit
All analyses completed using US EPA Test Method 8015B.
All results shown in milligrams per kilogram (mg/kg).

Table 2
VOCs in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (Feet)	Sample Date	Acetone	Benzene	Ethylbenzene	Methyl-t-Butyl Ether	Tert-Butyl Alcohol	Toluene	p/m-Xylene	o-Xylene
S-2	5.0	2/19/2019	*<0.035*	*<0.00069*	*<0.00069*	*<0.0014*	*<0.014*	*<0.00069*	*<0.0014*	*<0.00069*
	10.0		*<0.039*	*<0.00078*	*<0.00078*	*<0.0016*	*<0.016*	*<0.00078*	*<0.0016*	*<0.00078*
S-8	5.0	3/14/2019	*<0.043*	*<0.00085*	*<0.00085*	*<0.0017*	*<0.017*	*<0.00085*	*<0.0017*	*<0.00085*
	10.0		*<0.039*	*<0.00077*	*<0.00077*	*<0.0015*	*<0.015*	*<0.00077*	*<0.0015*	*<0.00077*
S-13	5.0	2/13/2019	*<0.040*	*<0.00080*	*<0.00080*	*<0.0016*	*<0.016*	*<0.00080*	*<0.0016*	*<0.00080*
	10.0		*<0.047*	*<0.00094*	*<0.00094*	*<0.0019*	*<0.019*	*<0.00094*	*<0.0019*	*<0.00094*
B-14	5.0	3/13/2019	**0.083**	*<0.00097*	*<0.00097*	*<0.0019*	*<0.019*	*<0.00097*	*<0.0019*	*<0.00097*
	10.0		*<0.047*	*<0.00093*	*<0.00093*	*<0.0019*	*<0.019*	*<0.00093*	*<0.0019*	*<0.00093*
B-16	5.0	2/13/2019	*<0.038*	*<0.00076*	*<0.00076*	*<0.0015*	*<0.015*	*<0.00076*	*<0.0015*	*<0.00076*
	10.0		*<0.037*	**0.0008**	*<0.00074*	*<0.0015*	*<0.015*	*<0.00074*	*<0.0015*	*<0.00074*
B-20	6.0	2/27/2019	*<0.037*	*<0.00075*	*<0.00075*	*<0.0015*	*<0.015*	*<0.00075*	*<0.0015*	*<0.00075*
	10.0		*<0.047*	*<0.00095*	*<0.00095*	*<0.0019*	*<0.019*	*<0.00095*	*<0.0019*	*<0.00095*
B-24	5.0	3/12/2019	*<0.047*	*<0.00094*	*<0.00094*	*<0.0019*	*<0.019*	*<0.00094*	*<0.0019*	*<0.00094*
	10.0		*<0.040*	*<0.00079*	*<0.00079*	*<0.0016*	*<0.016*	*<0.00079*	*<0.0016*	*<0.00079*
B-26	5.0	3/15/2019	*<0.054*	*<0.0011*	*<0.0011*	*<0.0022*	*<0.022*	*<0.0011*	*<0.0022*	*<0.0011*
	10.0		*<0.050*	*<0.00099*	*<0.00099*	*<0.0020*	*<0.020*	*<0.0020*	*<0.0020*	*<0.00099*
B-27	5.0	3/15/2019	*<0.040*	**0.0011**	*<0.00079*	*<0.0016*	*<0.016*	*<0.00079*	*<0.0016*	*<0.00079*
	12.5		*<0.047*	**0.0020**	*<0.00094*	*<0.0019*	*<0.019*	**0.0015**	*<0.0019*	*<0.00094*
B-28	5.0	3/16/2019	*<0.046*	*<0.00093*	*<0.00093*	*<0.0019*	*<0.019*	*<0.00093*	*<0.0019*	*<0.00093*
	10.0		*<0.047*	*<0.00093*	*<0.00093*	*<0.0019*	*<0.019*	*<0.00093*	*<0.0019*	*<0.00093*
B-30	5.0	3/16/2019	*<0.038*	*<0.00076*	*<0.00076*	*<0.0015*	*<0.015*	*<0.00076*	*<0.0015*	*<0.00076*
	10.0		*<0.046*	*<0.00092*	*<0.00092*	*<0.0018*	*<0.018*	*<0.00092*	*<0.0018*	*<0.00092*
B-31	5.0	3/16/2019	*<0.049*	*<0.00099*	*<0.00099*	*<0.0020*	*<0.020*	*<0.00099*	*<0.0020*	*<0.00099*
	10.0		*<0.041*	*<0.00083*	*<0.00083*	*<0.0017*	*<0.017*	*<0.00083*	*<0.0017*	*<0.00083*

Notes:

Bold indicates detected concentration

<0.0 not detected above the indicated reporting limit

All analyses completed using US EPA Test Method 8260B.

All results shown in milligrams per kilogram (mg/kg).

Table 3
PAHs in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (Feet)	Sample Date	Napthalene	2-Methylnaphthalene	1-Methylnaphthalene	Acenaphthlyene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) Anthracene	Chrysene	Benzo (k) Fluoranthene	Benzo (b) Fluoranthene	Benzo (a) Pyrene	Indeno (1,2,3-c,d) Pyrene	Dibenz (a,h) Anthracen	Benzo (g,h,i) Perylene
S-2	2.0	2/19/2019	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*	*<0.020*
S-8	2.0	3/14/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
S-13	2.0	2/13/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-14	2.0	3/13/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-16	2.0	2/13/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-20	2.0	2/27/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-24	2.0	3/12/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-26	2.0	3/15/2019	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*
B-27	2.0	3/15/2019	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	**0.010**	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*	*<0.0099*
B-28	2.0	3/16/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*
B-30	2.5	3/16/2019	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*
B-31	2.0	3/16/2019	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*	*<0.010*

Notes:

Bold indicates detected concentration

<0.0 not detected above the indicated method detection limit

All analyses completed using US EPA Test Method 8270C.

All results shown in milligrams per kilogram (mg/kg).

Table 4
Pesticides in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (feet)	Sample Date	Aldrin	Alpha-BHC	Beta-BHC	Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
S-2	2.0	2/19/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	**0.021**	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
S-8	2.0	3/14/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
S-13	2.0	2/13/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-14	2.0	3/13/2019	*<0.005*	*<0.0099*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.0099*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.0099*	*<0.005*	*<0.099*
B-16	2.0	2/13/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-20	2.0	2/27/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-24	2.0	3/12/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-26	2.0	3/15/2019	*<0.005*	*<0.0099*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.0099*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.0099*	*<0.005*	*<0.099*
B-27	2.0	3/15/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-28	2.0	3/16/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*
B-30	2.5	3/16/2019	*<0.1*	*<0.2*	*<0.1*	*<0.10*	*<0.1*	*<0.1*	*<0.1*	*<0.2*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.1*	*<0.2*	*<0.1*	*<2.0*
B-31	2.0	3/16/2019	*<0.005*	*<0.01*	*<0.005*	*<0.050*	*<0.005*	**0.0065**	*<0.005*	*<0.01*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.005*	*<0.1*

Notes:

µg/kg	micrograms per kilogram
<0.0	not detected above the indicated reporting limit
Bold	indicates detected concentration
Alpha-BHC	alpha-Hexachlorocyclohexane
Beta-BHC	beta-Hexachlorocyclohexane
Delta-BHC	delta-Hexachlorocyclohexane
Gamma-BHC	gamma-Hexachlorocyclohexane
4,4'-DDD	Dichlorodiphenyldichloroethane
4,4'-DDE	Dichlorodiphenyldichloroethylene
4,4'-DDT	Dichlorodiphenyltrichloroethane

All results analyzed using US EPA Test Method 8081A.
All results shown in milligram per kilogram (mg/kg).

Table 5
PCBs in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (feet)	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
S-2	2.0	2/19/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
S-8	2.0	3/14/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
S-13	2.0	2/13/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-14	2.0	3/13/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-16	2.0	2/13/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-20	2.0	2/27/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-24	2.0	3/12/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-26	2.0	3/15/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-27	2.0	3/15/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-28	2.0	3/16/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*
B-30	2.5	3/16/2019	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*	*<1.0*
B-31	2.0	3/16/2019	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*	*<0.050*

Notes:

PCB Polychlorinated Biphenyl
<0.0 not detected above the indicated reporting limit
Bold indicates detected concentration

All results analyzed using US EPA Test Method 8082.
All results shown in milligram per kilogram (mg/kg).

Table 6
Metals in Soil Analytical Results
San Diego State University- Mission Valley
San Diego, California

Boring ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
S-2	2.0	2/19/2019	*<0.750*	**6.31**	**125**	**0.602**	*<0.500*	**6.00**	**3.36**	**6.57**	**4.14**	*<0.0847*	*<0.250*	**3.84**	*<0.750*	*<0.250*	*<0.750*	**18.1**	**23.9**
S-8	2.0	3/14/2019	*<0.721*	**11.0**	**193**	**0.473**	*<0.481*	**19.7**	**3.69**	**15.2**	**4.49**	*<0.0794*	**1.96**	**6.12**	*<0.721*	**0.388**	*<0.721*	**19.2**	**31.5**
S-13	2.0	2/13/2019	*<0.743*	**1.88**	**80.0**	**0.485**	*<0.495*	**9.51**	**4.62**	**5.74**	**2.19**	*<0.0794*	*<0.248*	**4.80**	*<0.743*	*<0.248*	*<0.743*	**21.8**	**22.1**
B-14	2.0	3/13/2019	*<0.781*	*<0.781*	**43.4**	*<0.260*	*<0.521*	**7.54**	**3.24**	**5.23**	*<0.521*	**0.211**	*<0.260*	**2.33**	*<0.781*	*<0.260*	*<0.781*	**15.1**	**10.8**
B-16	2.0	2/13/2019	*<0.735*	**1.93**	**62.1**	**0.595**	*<0.490*	**5.18**	**3.16**	**4.06**	**1.79**	*<0.0833*	*<0.245*	**4.38**	*<0.735*	*<0.245*	*<0.735*	**10.6**	**21.4**
B-20	2.0	2/27/2019	*<0.743*	**5.77**	**88.2**	**0.276**	*<0.495*	**4.13**	**2.37**	**3.39**	**3.71**	*<0.0794*	*<0.248*	**2.73**	*<0.743*	*<0.248*	*<0.743*	**8.16**	**16.7**
B-24	2.0	3/12/2019	*<0.785*	**3.87**	**60.0**	**0.870**	*<0.524*	**5.17**	**3.52**	**5.39**	**4.38**	*<0.0794*	*<0.262*	**5.31**	*<0.785*	*<0.262*	*<0.785*	**6.51**	**24.2**
B-26	2.0	3/15/2019	*<0.785*	*<0.785*	**33.8**	*<0.262*	*<0.524*	**5.71**	**2.46**	**2.32**	*<0.524*	*<0.0794*	*<0.262*	**2.02**	*<0.785*	*<0.262*	*<0.785*	**13.5**	**9.29**
B-27	2.0	3/15/2019	*<0.758*	**2.88**	**117**	**0.547**	*<0.505*	**7.25**	**3.62**	**5.32**	**4.27**	**0.0959**	*<0.253*	**4.38**	*<0.758*	*<0.253*	*<0.758*	**15.2**	**23.3**
B-28	2.0	3/16/2019	*<0.758*	**2.83**	**116**	**0.668**	*<0.505*	**12.8**	**6.05**	**9.34**	**2.41**	*<0.0862*	*<0.253*	**5.70**	*<0.758*	*<0.253*	*<0.758*	**34.5**	**30.3**
B-30	2.5	3/16/2019	*<0.761*	**3.44**	**113**	**0.377**	*<0.508*	**6.44**	**5.09**	**9.13**	**3.54**	*<0.0847*	**1.08**	**10.2**	*<0.761*	*<0.254*	*<0.761*	**19.0**	**22.8**
B-31	2.0	3/16/2019	*<0.739*	**12.1**	**47.3**	**0.947**	*<0.493*	**4.51**	**4.29**	**5.46**	**6.43**	*<0.0862*	*<0.246*	**5.16**	*<0.739*	*<0.246*	*<0.739*	**11.2**	**25.2**

Notes:

<0.0 not detected above the indicated reporting limit

Bold indicates detected concentration

All results analyzed using US EPA Test Method 6010B, except mercury which was analyzed using US EPA Test Method 7471A.

All results shown in milligram per kilogram (mg/kg).

Table 7
Groundwater Level Measurements
San Diego State University- Mission Valley
San Diego, California

Well ID	Well Diameter (inches)	Top of Casing Elevation (feet-msl)	Top of Screen Depth (feet-bgs)	Length of Screen (feet)	Total Well Depth (feet-toc)	Date Gauged	Depth to Water (feet-toc)	Depth to LNAPL (feet-toc)	LNAPL Thickness (feet)	LNAPL Specific Gravity	Groundwater Elevation (feet-msl)
R-9	5	64.39	9.0	20.0	29.50	3/12/2019	19.65	ND	--	--	44.74
R-10	5	60.90	9.0	20.0	26.90	3/12/2019	15.90	ND	--	--	45.00
R-11	5	57.42	9.0	20.0	28.60	3/12/2019	12.52	ND	--	--	44.90
R-32AS	2	64.34	19.5	15.0	35.50	3/12/2019	19.70	ND	--	--	44.64
R-33AS	2	64.17	18.0	15.0	34.10	3/12/2019	19.63	ND	--	--	44.54
R-86AS	2	59.00	12.0	15.5	27.65	3/12/2019	14.02	ND	--	--	44.98
R-87AS	2	62.15	13.0	15.5	28.80	3/12/2019	17.00	ND	--	--	45.15

Notes:

Top of casing elevation and screen depth and length of screen taken from the report titled "Off-Terminal Groundwater Monitoring Report, Third Quarter of 2015, and Request for Suspension of Monitoring and Reporting Requirements for the Off-Terminal Area, Mission Valley Terminal, San Diego, California" dated October 2, 2015, and prepared by ARCADIS U.S., Inc.

Total well depth and depth to water as measured on March 12, 2019.

feet-msl	Feet above mean sea level
feet-bgs	Feet below ground surface
feet-toc	Feet from top of casing
LNAPL	Light Non-Aqueous Phase Liquid
ND	Not Detected
--	Not Available / Not Applicable

Table 8
TPH in Groundwater Analytical Results
San Diego State University- Mission Valley
San Diego, California

Well ID	Sample Date	C4-C5	C6	C7	C8	C9-C10	C11-C12	TPH-GRO Total	C13-C14	C15-C16	C17-C18	C19-C20	C21-C22	TPH-DRO Total	C23-C24	C25-C26	C27-C28
R-9	3/12/2019	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	*<45*	**36 J**	**47**	**78**	**82**	**240**	**77**	**65**	**44 J**
R-33AS	3/12/2019	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	**21 J**	**33 J**	**20 J**	*<45*	*<45*	**74**	*<45*	*<45*	*<45*
R-86AS	3/12/2019	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	*<50*	*<45*	**17 J**	**21 J**	**16 J**	*<45*	**55**	*<45*	*<45*	*<45*

Notes:

TPH	Total Petroleum Hydrocarbons
GRO	Gasoline Range Organics
DRO	Diesel Range Organics
J	results greater than or equal to method detection limit, but less than reporting limit
Bold	indicates detected concentration
<0.0	not detected above the indicated reporting limit

All analyses completed using US EPA Test Method 8015B.
All results shown in micrograms per liter (µg/l).

Table 9
VOCs in Groundwater Analytical Results
San Diego State University- Mission Valley
San Diego, California

Sample ID	Sample Date	Benzene	Ethylbenzene	Methyl-t-Butyl Ether	Tert-Butyl Alcohol	Toluene	p/m-Xylene	o-Xylene
R-9 AS	3/12/2019	*<10*	*<10*	*<10*	*<100*	*<10*	*<20*	*<10*
R-33 AS	3/12/2019	*<1.0*	*<1.0*	*<1.0*	*<10*	*<1.0*	*<2.0*	*<1.0*
R-86 AS	3/12/2019	*<1.0*	*<1.0*	*<1.0*	*<10*	*<1.0*	*<2.0*	*<1.0*

Notes:

Bold indicates detected concentration

<0.0 not detected above the indicated reporting limit

All analyses completed using US EPA Test Method 8260B.

All results shown in micrograms per liter (µg/l).

Table 10
VOCs in Soil Gas Analytical Results
San Diego State University- Mission Valley
San Diego, California

Well ID	Sample Depth (feet)	Sample Date	TPH-GRO by EPA Method 8150B	Volatile Organic Compounds (VOCs) by EPA Method 8260B													
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Isopropylbenzene	meta- and para-Xylenes	Methyl tert-butyl ether	n-Propylbenzene	ortho-Xylene	Styrene	Tetrachloroethene	Toluene
SG1-5	5.0	3/13/2019	**39 J**	**0.027**	**0.012**	**0.029**	*<0.005*	*<0.01*	**0.078**	*<0.005*	**0.330**	*<1*	**0.0090**	**0.099**	**0.0052**	*<0.005*	**0.330**
SG2-5	5.0	3/13/2019	**270**	**0.015**	**0.0048 J**	**0.079**	**0.078**	**0.310**	**0.046**	*<0.005*	**0.160**	*<1*	**0.0050**	**0.043**	**0.0018 J**	*<0.005*	**0.300**
SG3-5	5.0	3/13/2019	**170**	**0.0082**	*<0.005*	**0.0076**	*<0.005*	**0.022**	**0.0090 J**	*<0.005*	**0.035**	**0.460 J**	*<0.005*	**0.012**	*<0.005*	*<0.005*	**0.036**
SG4-5	5.0	3/13/2019	**200**	**0.012**	*<0.005*	**0.030**	*<0.005*	**0.150**	**0.021**	*<0.005*	**0.080**	**0.250 J**	*<0.005*	**0.023**	**0.0030 J**	*<0.005*	**0.140**
SG5-5	5.0	3/14/2019	**120**	**0.0050**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.028**	*<1*	*<0.005*	**0.0066**	*<0.005*	*<0.005*	**0.022**
SG6-5	5.0	3/14/2019	**88**	**0.015**	**0.0034 J**	**0.030**	*<0.005*	**0.075**	**0.026**	*<0.005*	**0.094**	*<1*	*<0.005*	**0.032**	*<0.005*	*<0.005*	**0.140**
SG7-5	5.0	3/14/2019	**190**	**0.070**	**0.029**	**0.060**	**0.024**	*<0.01*	**0.150**	**0.0078**	**0.610**	*<1*	**0.022**	**0.170**	**0.0044 J**	*<0.005*	**0.650**
SG8-5	5.0	3/14/2019	**130**	**0.030**	**0.011**	**0.094**	**0.023**	**0.025**	**0.088**	**0.0060**	**0.320**	*<1*	**0.012**	**0.093**	**0.0078**	*<0.005*	**0.540**
SG9-5	5.0	3/13/2019	**45 J**	**0.022**	**0.0076**	**0.017**	*<0.005*	*<0.01*	**0.051**	*<0.005*	**0.230**	*<1*	**0.0070**	**0.064**	**0.0028 J**	**0.0066**	**0.180**
SG10-5	5.0	3/13/2019	**490**	**0.0076**	**0.0028 J**	**0.062**	*<0.005*	**0.500**	**0.032**	*<0.005*	**0.100**	*<1*	**0.0028 J**	**0.030**	*<0.005*	**0.0056**	**0.230**
SG11-5	5.0	3/13/2019	*<50*	**0.0052**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.0060 J**	*<0.005*	**0.033**	*<1*	*<0.005*	**0.0084**	*<0.005*	*<0.005*	**0.017**
SG12-5	5.0	3/14/2019	**37 J**	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.01*	*<0.005*	*<0.005*	*<1*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	**0.0062**
SG12-5-DUP	5.0	3/14/2019	**33 J**	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.0046 J**	*<1*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	**0.0082**
SG13-5	5.0	3/13/2019	**57**	*<0.005*	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.0064 J**	*<0.005*	**0.022**	*<1*	*<0.005*	**0.0056**	*<0.005*	*<0.005*	**0.020**
SG14-5	5.0	3/14/2019	**240**	**0.0048 J**	*<0.005*	**0.031**	**0.070**	*<0.01*	**0.011**	*<0.005*	**0.029**	*<1*	*<0.005*	**0.0070**	*<0.005*	*<0.005*	**0.088**
SG15-5	5.0	3/13/2019	**160**	*<0.005*	*<0.005*	**0.028**	*<0.005*	*<0.01*	**0.0078 J**	*<0.005*	**0.025**	*<1*	*<0.005*	**0.0088**	*<0.005*	*<0.005*	**0.060**
SG16-5	5.0	3/14/2019	**99**	**0.0064**	*<0.005*	**0.0046 J**	*<0.005*	*<0.01*	**0.0070 J**	*<0.005*	**0.029**	*<1*	*<0.005*	**0.0078**	**0.0060**	*<0.005*	**0.039**
SG17-5	5.0	3/13/2019	**53**	*<0.005*	**0.0030 J**	**0.0064**	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.014**	*<1*	*<0.005*	**0.0054**	*<0.005*	*<0.005*	**0.025**
SG18-5	5.0	3/13/2019	**140**	**0.021**	**0.020**	**0.120**	*<0.005*	*<0.01*	**0.057**	*<0.005*	**0.220**	*<1*	**0.0074**	**0.069**	**0.0032 J**	*<0.005*	**0.410**
SG19-5	5.0	3/13/2019	*<50*	**0.0022 J**	*<0.005*	**0.0030 J**	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.016**	*<1*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	**0.022**
SG19-5-DUP	5.0	3/13/2019	*<50*	**0.0024 J**	*<0.005*	**0.0050**	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.016**	*<1*	*<0.005*	*<0.005*	*<0.005*	*<0.005*	**0.023**
SG20-5	5.0	3/14/2019	**170**	**0.0080**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.010**	*<0.005*	**0.041**	*<1*	*<0.005*	**0.011**	*<0.005*	*<0.005*	**0.033**
SG20-10	10.0	3/13/2019	**64**	**0.080**	**0.026**	**0.075**	*<0.005*	*<0.01*	**0.100**	**0.0078**	**0.390**	*<1*	**0.018**	**0.140**	**0.0020 J**	*<0.005*	**0.520**
SG20-10-DUP	10.0	3/13/2019	**74**	**0.078**	**0.022**	**0.070**	*<0.005*	*<0.01*	**0.100**	**0.0052**	**0.390**	*<1*	**0.018**	**0.120**	**0.0044 J**	*<0.005*	**0.520**
SG21-5	5.0	3/13/2019	**98**	**0.029**	**0.0076**	**0.012**	*<0.005*	*<0.01*	**0.024**	*<0.005*	**0.100**	*<1*	**0.0044 J**	**0.039**	*<0.005*	*<0.005*	**0.099**
SG22-5	5.0	3/14/2019	**160**	**0.021**	**0.0072**	**0.013**	*<0.005*	*<0.01*	**0.036**	*<0.005*	**0.140**	*<1*	**0.0044 J**	**0.040**	*<0.005*	*<0.005*	**0.170**
SG22-10	10.0	3/14/2019	*<50*	**0.0082**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.010**	*<0.005*	**0.036**	*<1*	*<0.005*	**0.010**	*<0.005*	*<0.005*	**0.019**
SG23-5	5.0	3/14/2019	**78**	**0.0086**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.0080 J**	*<0.005*	**0.030**	*<1*	**0.0014 J**	**0.0092**	*<0.005*	*<0.005*	**0.019**
SG24-5	5.0	3/14/2019	**54**	**0.0056**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	*<0.01*	*<0.005*	**0.018**	*<1*	*<0.005*	**0.0036 J**	*<0.005*	*<0.005*	**0.019**
SG25-5	5.0	3/14/2019	**150**	**0.012**	*<0.005*	*<0.005*	*<0.005*	*<0.01*	**0.010**	*<0.005*	**0.048**	*<1*	*<0.005*	**0.018**	*<0.005*	*<0.005*	**0.032**
SG26-5	5.0	3/14/2019	**100**	**0.038**	**0.0098**	**0.016**	*<0.005*	*<0.01*	**0.057**	*<0.005*	**0.210**	*<1*	**0.0080**	**0.075**	*<0.005*	*<0.005*	**0.220**

Notes:

TPH	Total Petroleum Hydrocarbons
GRO	Gasoline Range Organics
DUP	Duplicate
J	Detected but below the reporting limit; therefore, result is an estimated concentration.
<0.0	Not detected above the indicated reporting limit.
Bold	Indicates detected concentration.

All results shown in micrograms per liter (µg/l).

Table 11
Vapor Intrusion Human Health Risks using DTSC Screening Model
San Diego State University Mission Valley Project

Sample ID	Benzene	C Disulfide	CM	Cumene	EB	n-PB	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-X	o-X	PCE	MTBE	Cumulative Risk	
SG1-5	4.10E-07	—	—	—	8.40E-08	—	—	—	—	—	—	—	—	—	4.94E-07	Cancer
	1.30E-02	—	—	—	9.10E-05	9.80E-06	6.80E-06	1.40E-03	4.20E-03	3.70E-04	3.80E-03	1.20E-03	—	—	2.41E-02	NC HI
SG2-5	1.10E-06	—	—	—	5.00E-08	—	—	—	—	—	—	—	—	—	1.15E-06	Cancer
	3.50E-02	1.60E-04	5.20E-03	—	5.30E-05	5.40E-06	2.40E-06	1.20E-03	2.30E-03	1.50E-04	1.90E-03	5.00E-04	—	—	4.65E-02	NC HI
SG3-5	1.10E-07	—	—	—	9.70E-09	—	—	—	—	—	—	—	—	5.40E-08	1.74E-07	Cancer
	3.30E-03	—	3.70E-04	—	1.00E-05	—	—	1.50E-04	1.30E-03	—	4.10E-04	1.40E-04	—	1.90E-04	5.87E-03	NC HI
SG4-5	4.30E-07	—	—	—	2.30E-08	—	—	—	—	—	—	—	—	2.90E-08	4.82E-07	Cancer
	1.30E-02	—	2.50E-03	—	2.40E-05	—	3.90E-06	5.80E-04	1.90E-03	—	9.30E-04	2.70E-04	—	1.00E-04	1.93E-02	NC HI
SG5-5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00E+00	Cancer
	—	—	—	—	—	—	—	9.10E-05	7.80E-04	—	3.20E-04	7.70E-05	—	—	1.27E-03	NC HI
SG6-5	4.30E-07	—	—	—	2.80E-08	—	—	—	—	—	—	—	—	—	4.58E-07	Cancer
	1.30E-02	—	1.30E-03	—	3.00E-05	—	—	5.80E-04	2.30E-03	1.10E-04	1.10E-03	3.70E-04	—	—	1.88E-02	NC HI
SG7-5	8.50E-07	—	—	—	1.60E-07	—	—	—	—	—	—	—	—	—	1.01E-06	Cancer
	2.60E-02	4.90E-05	—	2.10E-05	1.70E-04	2.40E-05	5.80E-06	2.70E-03	1.10E-02	9.00E-04	7.10E-03	2.00E-03	—	—	5.00E-02	NC HI
SG8-5	1.30E-06	—	—	—	9.50E-08	—	—	—	—	—	—	—	—	—	1.40E-06	Cancer
	4.10E-02	4.70E-05	4.20E-04	1.60E-05	1.00E-04	1.30E-05	1.00E-05	2.20E-03	4.70E-03	3.40E-04	3.70E-03	1.10E-03	—	—	5.36E-02	NC HI
SG9-5	2.40E-07	—	—	—	5.50E-08	—	—	—	—	—	—	—	1.40E-08	—	3.09E-07	Cancer
	7.50E-03	—	—	—	5.90E-05	7.60E-06	3.70E-06	7.40E-04	3.40E-03	2.40E-04	2.70E-03	7.50E-04	1.90E-04	—	1.56E-02	NC HI
SG10-5	8.80E-07	—	—	—	3.40E-08	—	—	—	—	—	—	—	1.20E-08	—	9.26E-07	Cancer
	2.70E-02	—	8.30E-03	—	3.70E-05	3.00E-06	—	9.50E-04	1.20E-03	8.70E-05	1.20E-03	3.50E-04	1.60E-04	—	3.93E-02	NC HI
SG11-5	—	—	—	—	6.50E-09	—	—	—	—	—	—	—	—	—	6.50E-09	Cancer
	—	—	—	—	7.00E-06	—	—	7.00E-05	8.10E-04	—	3.80E-04	9.80E-05	—	—	1.37E-03	NC HI
SG12-5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00E+00	Cancer
	—	—	—	—	—	—	—	2.60E-05	—	—	—	—	—	—	2.60E-05	NC HI
SG13-5	—	—	—	—	6.90E-09	—	—	—	—	—	—	—	—	—	6.90E-09	Cancer
	—	—	—	—	7.40E-06	—	—	8.20E-05	—	—	2.50E-04	6.50E-05	—	—	4.04E-04	NC HI
SG14-5	4.40E-07	—	—	—	1.20E-08	—	—	—	—	—	—	—	—	—	4.52E-07	Cancer
	1.40E-02	1.40E-04	—	—	1.30E-05	—	—	3.60E-04	7.50E-04	—	3.40E-04	8.20E-05	—	—	1.57E-02	NC HI
SG15-5	4.00E-07	—	—	—	8.40E-09	—	—	—	—	—	—	—	—	—	4.08E-07	Cancer
	1.20E-02	—	—	—	9.10E-06	—	—	2.50E-04	—	—	2.90E-04	1.00E-04	—	—	1.26E-02	NC HI
SG16-5	6.50E-08	—	—	—	7.50E-09	—	—	—	—	—	—	—	—	—	7.25E-08	Cancer
	2.00E-03	—	—	—	8.10E-06	—	7.90E-06	1.60E-04	1.00E-03	—	3.40E-04	9.10E-05	—	—	3.61E-03	NC HI
SG17-5	9.10E-08	—	—	—	—	—	—	—	—	—	—	—	—	—	9.10E-08	Cancer
	2.80E-03	—	—	—	—	—	—	1.00E-04	—	9.30E-05	1.60E-04	6.30E-05	—	—	3.22E-03	NC HI
SG18-5	1.70E-06	—	—	—	6.10E-08	—	—	—	—	—	—	—	—	—	1.76E-06	Cancer
	5.30E-02	—	—	—	6.60E-05	8.00E-06	4.20E-06	1.70E-03	3.30E-03	6.20E-04	2.50E-03	8.00E-04	—	—	6.20E-02	NC HI
SG19-5	4.30E-08	—	—	—	—	—	—	—	—	—	—	—	—	—	4.30E-08	Cancer
	1.30E-03	—	—	—	—	—	—	9.10E-05	3.40E-04	—	1.90E-04	—	—	—	1.92E-03	NC HI
SG20-5	—	—	—	—	1.10E-08	—	—	—	—	—	—	—	—	—	1.10E-08	Cancer
	—	—	—	—	1.20E-05	—	—	1.40E-04	1.20E-03	—	4.80E-04	1.30E-04	—	—	1.96E-03	NC HI
SG20-10	7.10E-07	—	—	—	6.90E-08	—	—	—	—	—	—	—	—	—	7.79E-07	Cancer
	2.20E-02	—	—	1.30E-05	7.40E-05	1.20E-05	1.70E-06	1.40E-03	7.80E-03	5.00E-04	2.90E-03	1.00E-03	—	—	3.57E-02	NC HI

Table 11
Vapor Intrusion Human Health Risks using DTSC Screening Model
San Diego State University Mission Valley Project

Sample ID	Benzene	C Disulfide	CM	Cumene	EB	n-PB	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-X	o-X	PCE	MTBE	Cumulative Risk	
SG21-5	1.70E-07	---	---	---	2.60E-08	---	---	---	---	---	---	---	---	---	1.96E-07	Cancer
	5.30E-03	---	---	---	2.80E-05	4.80E-06	---	4.10E-04	4.50E-03	2.40E-04	1.20E-03	4.50E-04	---	---	1.21E-02	NC HI
SG22-5	1.80E-07	---	---	---	3.90E-08	---	---	---	---	---	---	---	---	---	2.19E-07	Cancer
	5.70E-03	---	---	---	4.20E-05	4.80E-06	---	7.00E-04	3.30E-03	2.20E-04	1.60E-03	4.70E-04	---	---	1.20E-02	NC HI
SG22-10	---	---	---	---	6.90E-09	---	---	---	---	---	---	---	---	---	6.90E-09	Cancer
	---	---	---	---	7.40E-06	---	---	5.10E-05	8.00E-04	---	2.70E-04	7.40E-05	---	---	1.20E-03	NC HI
SG23-5	---	---	---	---	8.60E-09	---	---	---	---	---	---	---	---	---	8.60E-09	Cancer
	---	---	---	---	9.30E-06	1.50E-06	---	7.80E-05	1.30E-03	---	3.50E-04	1.10E-04	---	---	1.85E-03	NC HI
SG24-5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00E+00	Cancer
	---	---	---	---	---	---	---	7.80E-05	8.70E-04	---	2.10E-04	4.20E-05	---	---	1.20E-03	NC HI
SG25-5	---	---	---	---	1.10E-08	---	---	---	---	---	---	---	---	---	1.10E-08	Cancer
	---	---	---	---	1.20E-05	---	---	1.30E-04	1.90E-03	---	5.60E-04	2.10E-04	---	---	2.81E-03	NC HI
SG26-5	2.30E-07	---	---	---	6.10E-08	---	---	---	---	---	---	---	---	---	2.91E-07	Cancer
	7.00E-03	---	---	---	6.60E-05	8.70E-06	---	9.10E-04	5.90E-03	3.00E-04	2.40E-03	8.70E-04	---	---	1.75E-02	NC HI

Notes:

C Disulfide = Carbon Disulfide

CM = Chloromethane

EB = Ethylbenzene

n-PB = n-Propylbenzene

TMB = Trimethylbenzene

X = Xylene

PCE = Tetrachloroethene

MTBE = Methyl-tert-butyl-ether

NC HI = Non-cancer hazard index

--- = No risk (constituent not detected or not carcinogenic)

Table 12
Vapor Intrusion Human Health Risks using EPA Screening Model
San Diego State University Mission Valley Project

Sample ID	Benzene	C Disulfide	CM	Cumene	EB	n-PB	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-X	o-X	PCE	MTBE	Cumulative Risk	
SG1-5	1.20E-07	---	---	---	8.97E-08	---	---	---	---	---	---	---	---	---	2.10E-07	Cancer
	1.38E-03	---	---	---	9.66E-05	1.03E-05	6.58E-06	8.77E-05	5.19E-04	2.30E-04	4.08E-03	1.23E-03	---	---	7.65E-03	NC HI
SG2-5	3.27E-07	---	---	---	5.29E-08	---	---	---	---	---	---	---	---	---	3.80E-07	Cancer
	3.77E-03	1.73E-04	5.72E-03	---	5.70E-05	5.74E-06	2.28E-06	7.97E-05	2.88E-04	9.19E-05	1.98E-03	5.34E-04	---	---	1.27E-02	NC HI
SG3-5	3.15E-08	---	---	---	1.03E-08	---	---	---	---	---	---	---	---	5.80E-08	9.98E-08	Cancer
	3.62E-04	---	4.06E-04	---	1.11E-05	---	---	9.57E-06	1.58E-04	---	4.33E-04	1.49E-04	---	2.00E-04	1.73E-03	NC HI
SG4-5	1.24E-07	---	---	---	2.41E-08	---	---	---	---	---	---	---	---	3.15E-08	1.80E-07	Cancer
	1.43E-03	---	2.77E-03	---	2.60E-05	---	3.80E-06	3.72E-05	2.31E-04	---	9.90E-04	2.86E-04	---	1.09E-04	5.88E-03	NC HI
SG5-5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00E+00	Cancer
	---	---	---	---	---	---	---	5.85E-06	9.62E-05	---	3.46E-04	8.20E-05	---	---	5.30E-04	NC HI
SG6-5	1.24E-07	---	---	---	2.99E-08	---	---	---	---	---	---	---	---	---	1.54E-07	Cancer
	1.43E-03	---	1.39E-03	---	3.22E-05	---	---	3.72E-05	2.88E-04	6.51E-05	1.16E-03	3.98E-04	---	---	4.80E-03	NC HI
SG7-5	2.49E-07	---	---	---	1.72E-07	---	---	---	---	---	---	---	---	---	4.21E-07	Cancer
	2.86E-03	5.33E-05	---	2.24E-05	1.86E-04	2.53E-05	5.57E-06	1.73E-04	1.35E-03	5.55E-04	7.55E-03	2.11E-03	---	---	1.49E-02	NC HI
SG8-5	3.89E-07	---	---	---	1.01E-07	---	---	---	---	---	---	---	---	---	4.91E-07	Cancer
	4.48E-03	5.11E-05	4.62E-04	1.72E-05	1.09E-04	1.38E-05	9.87E-06	1.44E-04	5.77E-04	2.11E-04	3.96E-03	1.16E-03	---	---	1.12E-02	NC HI
SG9-5	7.04E-08	---	---	---	5.86E-08	---	---	---	---	---	---	---	6.56E-10	---	1.30E-07	Cancer
	8.10E-04	---	---	---	6.32E-05	8.04E-06	3.54E-06	4.78E-05	4.23E-04	1.46E-04	2.85E-03	7.95E-04	1.70E-04	---	5.31E-03	NC HI
SG10-5	2.57E-07	---	---	---	3.68E-08	---	---	---	---	---	---	---	5.57E-10	---	2.94E-07	Cancer
	2.96E-03	---	9.23E-03	---	3.96E-05	3.21E-06	---	6.11E-05	1.46E-04	5.36E-05	1.24E-03	3.73E-04	1.44E-04	---	1.42E-02	NC HI
SG11-5	---	---	---	---	6.90E-09	---	---	---	---	---	---	---	---	---	6.90E-09	Cancer
	---	---	---	---	7.43E-06	---	---	4.52E-06	1.00E-04	---	4.08E-04	1.04E-04	---	---	6.25E-04	NC HI
SG12-5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00E+00	Cancer
	---	---	---	---	---	---	---	1.65E-06	---	---	---	---	---	---	1.65E-06	NC HI
SG13-5	---	---	---	---	7.36E-09	---	---	---	---	---	---	---	---	---	7.36E-09	Cancer
	---	---	---	---	7.92E-06	---	---	5.32E-06	---	---	2.72E-04	6.96E-05	---	---	3.55E-04	NC HI
SG14-5	1.28E-07	---	---	---	1.26E-08	---	---	---	---	---	---	---	---	---	1.41E-07	Cancer
	1.48E-03	1.55E-04	---	---	1.36E-05	---	---	2.34E-05	9.23E-05	---	3.59E-04	8.70E-05	---	---	2.21E-03	NC HI
SG15-5	1.16E-07	---	---	---	8.97E-09	---	---	---	---	---	---	---	---	---	1.25E-07	Cancer
	1.33E-03	---	---	---	9.66E-06	---	---	1.59E-05	---	---	3.09E-04	1.09E-04	---	---	1.78E-03	NC HI
SG16-5	1.91E-08	---	---	---	8.05E-09	---	---	---	---	---	---	---	---	---	2.71E-08	Cancer
	2.19E-04	---	---	---	8.67E-06	---	7.59E-06	1.04E-05	1.23E-04	---	3.59E-04	9.69E-05	---	---	8.25E-04	NC HI
SG17-5	2.65E-08	---	---	---	---	---	---	---	---	---	---	---	---	---	2.65E-08	Cancer
	3.05E-04	---	---	---	---	---	---	6.65E-06	---	5.74E-05	1.73E-04	6.71E-05	---	---	6.09E-04	NC HI
SG18-5	4.97E-07	---	---	---	6.55E-08	---	---	---	---	---	---	---	---	---	5.63E-07	Cancer
	5.72E-03	---	---	---	7.06E-05	8.49E-06	4.05E-06	1.09E-04	4.04E-04	3.83E-04	2.72E-03	8.58E-04	---	---	1.03E-02	NC HI
SG19-5	1.24E-08	---	---	---	---	---	---	---	---	---	---	---	---	---	1.24E-08	Cancer
	1.43E-04	---	---	---	---	---	---	5.85E-06	4.23E-05	---	1.98E-04	---	---	---	3.89E-04	NC HI
SG20-5	---	---	---	---	1.15E-08	---	---	---	---	---	---	---	---	---	1.15E-08	Cancer
	---	---	---	---	1.24E-05	---	---	8.77E-06	1.54E-04	---	5.07E-04	1.37E-04	---	---	8.19E-04	NC HI
SG20-10	2.02E-07	---	---	---	7.14E-08	---	---	---	---	---	---	---	---	---	2.73E-07	Cancer
	2.32E-03	---	---	1.36E-05	7.69E-05	1.26E-05	1.58E-06	8.77E-05	9.37E-04	3.03E-04	3.00E-03	1.08E-03	---	---	7.84E-03	NC HI

Table 12
Vapor Intrusion Human Health Risks using EPA Screening Model
San Diego State University Mission Valley Project

Sample ID	Benzene	C Disulfide	CM	Cumene	EB	n-PB	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-X	o-X	PCE	MTBE	Cumulative Risk	
SG21-5	4.97E-08	---	---	---	2.76E-08	---	---	---	---	---	---	---	---	---	7.73E-08	Cancer
	5.72E-04	---	---	---	2.97E-05	5.05E-06	---	2.63E-05	5.58E-04	1.46E-04	1.24E-03	4.85E-04	---	---	3.06E-03	NC HI
SG22-5	5.39E-08	---	---	---	4.14E-08	---	---	---	---	---	---	---	---	---	9.52E-08	Cancer
	6.20E-04	---	---	---	4.46E-05	5.05E-06	---	4.52E-05	4.04E-04	1.38E-04	1.73E-03	4.97E-04	---	---	3.49E-03	NC HI
SG22-10	---	---	---	---	7.14E-09	---	---	---	---	---	---	---	---	---	7.14E-09	Cancer
	---	---	---	---	7.69E-06	---	---	3.20E-06	9.61E-05	---	2.77E-04	7.73E-05	---	---	4.61E-04	NC HI
SG23-5	---	---	---	---	9.20E-09	---		---	---	---	---	---	---	---	9.20E-09	Cancer
	---	---	---	---	9.91E-06	1.61E-06	---	5.05E-06	1.65E-04	---	3.71E-04	1.14E-04	---	---	6.67E-04	NC HI
SG24-5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.00E+00	Cancer
	---	---	---	---	---	---	---	5.05E-06	1.08E-04	---	2.23E-04	4.47E-05	---	---	3.80E-04	NC HI
SG25-5	---	---	---	---	1.15E-08	---	---	---	---	---	---	---	---	---	1.15E-08	Cancer
	---	---	---	---	1.24E-05	---	---	8.51E-06	2.31E-04	---	5.94E-04	2.24E-04	---	---	1.07E-03	NC HI
SG26-5	6.63E-08	---	---	---	6.55E-08	---	---	---	---	---	---	---	---	---	1.32E-07	Cancer
	7.63E-04	---	---	---	7.06E-05	9.18E-06	---	5.85E-05	7.31E-04	1.88E-04	2.60E-03	9.32E-04	---	---	5.35E-03	NC HI

Notes:

C Disulfide = Carbon Disulfide

CM = Chloromethane

EB = Ethylbenzene

n-PB = n-Propylbenzene

TMB = Trimethylbenzene

X = Xylene

PCE = Tetrachloroethene

MTBE = Methyl-tert-butyl-ether

NC HI = Non-cancer hazard index

--- = No risk (constituent not detected or not carcinogenic)

Table 13
Vapor Intrusion Risk Evaluation Summary
San Diego State University Mission Valley Project

Soil Gas Sample ID	Depth (ft bgs)	State VI Model		EPA VI Model	
		Cancer Risk	Non-Cancer HI	Cancer Risk	Non-Cancer HI
SG1-5	5	4.94E-07	2.41E-02	2.10E-07	7.65E-03
SG2-5	5	1.15E-06	4.65E-02	3.80E-07	1.27E-02
SG3-5	5	1.74E-07	5.87E-03	9.98E-08	1.73E-03
SG4-5	5	4.82E-07	1.93E-02	1.80E-07	5.88E-03
SG5-5	5	0.00E+00	1.27E-03	0.00E+00	5.30E-04
SG6-5	5	4.58E-07	1.88E-02	1.54E-07	4.80E-03
SG7-5	5	1.01E-06	5.00E-02	4.21E-07	1.49E-02
SG8-5	5	1.40E-06	5.36E-02	4.91E-07	1.12E-02
SG9-5	5	3.09E-07	1.56E-02	1.30E-07	5.31E-03
SG10-5	5	9.26E-07	3.93E-02	2.94E-07	1.42E-02
SG11-5	5	6.50E-09	1.37E-03	6.90E-09	6.25E-04
SG12-5	5	0.00E+00	2.60E-05	0.00E+00	1.65E-06
SG13-5	5	6.90E-09	4.04E-04	7.36E-09	3.55E-04
SG14-5	5	4.52E-07	1.57E-02	1.41E-07	2.21E-03
SG15-5	5	4.08E-07	1.26E-02	1.25E-07	1.78E-03
SG16-5	5	7.25E-08	3.61E-03	2.71E-08	8.25E-04
SG17-5	5	9.10E-08	3.22E-03	2.65E-08	6.09E-04
SG18-5	5	1.76E-06	6.20E-02	5.63E-07	1.03E-02
SG19-5	5	4.30E-08	1.92E-03	1.24E-08	3.89E-04
SG20-5	5	1.10E-08	1.96E-03	1.15E-08	8.19E-04
SG20-10	10	7.79E-07	3.57E-02	2.73E-07	7.84E-03
SG21-5	5	1.96E-07	1.21E-02	7.73E-08	3.06E-03
SG22-5	5	2.19E-07	1.20E-02	9.52E-08	3.49E-03
SG22-10	10	6.90E-09	1.20E-03	7.14E-09	4.61E-04
SG23-5	5	8.60E-09	1.85E-03	9.20E-09	6.67E-04
SG24-5	5	0.00E+00	1.20E-03	0.00E+00	3.80E-04
SG25-5	5	1.10E-08	2.81E-03	1.15E-08	1.07E-03
SG26-5	5	2.91E-07	1.75E-02	1.32E-07	5.35E-03
Risk Threshold		**1.00E-06**	**1.00E+00**	**1.00E-06**	**1.00E+00**
No. Samples Exceeding		**4**	**0**	**0**	**0**

Notes:

bgs = below ground surface
VI = vapor intrusion
HI = hazard index

Appendix A

PURGE LOG

Project Name:	**SDSU Mission Valley**	Project No.:	**SD605**		
PID/FID Readings:	NA		(Ambient)	NA	(well mouth)
Static Levels:	NA	(product)			(water)
Notes: Dedicated tubing used					
Pump ■ /Bail □	Avg. Rate:		Total Milliliters Extracted:		
Disposition of Discharge Water:	**Storage drum**				

Well Information		**Equipment Information**
Number:	R-9	Bailer No.: **NA**
Location:		Pump No.: **Monsoon Pump 12V SS**
Datum:		Interface Probe No.: **100'- Solinst**
Elev. Datum Point:		Sounder No.: NA
Top Of Casing Elev.:		pH Meter No.: **Horiba U-53-2**
Well Diameter:	5"	Conductivity Meter No.: **Horiba U-53-2**
Well Depth:	29.50	Thermometer No.: **Horiba U-53-2**
Well Material:	**PVC Sch 40**	D.O. Meter No.: **Horiba U-53-2**
Screen:	9-29	Turbidity Meter No.: **Horiba U-53-2**
		ORP Meter No.: **Horiba U-53-2**

Time (24 hr.)	**Flow rate (gallons per minute)**	**Water Temp (°C)**	**pH**	**Cond. (umhos/cm)**	**Dissolved Oxygen (mg/l)**	**Turbidity (NTU)**	**ORP (mV) +/-**	**Settleable Solids (ml/L)**	**Gallons Purged Before Measurement**	**Water Level (feet)**	**Remarks (e.g. water clarity and odor)**
1400	--	--	--	--	--	--	--	--	--	19.65	TD= 29.50
1405	1.5	26.27	7.27	2,340	0.31	0.0	--	--	5.0	19.65	Start purging
1410	1.5	26.30	7.23	2,380	0.20	0.0	--	--	12.5	22.00	Clear water. No odor.
1415	1.5	26.30	7.21	2,440	0.15	0.0	--	--	20.0	23.10	Clear water. No odor.
1420	1.5	26.36	7.20	2,470	0.12	0.0	--	--	27.5	23.80	Clear water. No odor.
1425	1.5	26.36	7.20	2,470	0.10	0.0	--	--	33.0	23.90	Sample Well

Notes:
NA = Non-applicable

Recorded By Edwin Moncayo Date 3/12/019
Checked By Alex Santini Date 3/13/2019

GROUP DELTA

PURGE LOG

Project Name:	**SDSU Mission Valley**	Project No.:	**SD605**		
PID/FID Readings:	NA	(Ambient)	NA	(well mouth)	
Static Levels:	NA	(product)		(water)	
Notes: Dedicated tubing used					
Pump ■ /Bail □	Avg. Rate:	Total Milliliters Extracted:			
Disposition of Discharge Water:	**Storage drum**				

Well Information		**Equipment Information**
Number:	R-33AS	Bailer No.: **NA**
Location:		Pump No.: **Monsoon Pump 12V SS**
Datum:		Interface Probe No.: **100'- Solinst**
Elev. Datum Point:		Sounder No.: NA
Top Of Casing Elev.:		pH Meter No.: **Horiba U-53-2**
Well Diameter:	2"	Conductivity Meter No.: **Horiba U-53-2**
Well Depth:	34.10	Thermometer No.: **Horiba U-53-2**
Well Material:	**PVC Sch 40**	D.O. Meter No.: **Horiba U-53-2**
Screen:	18-33	Turbidity Meter No.: **Horiba U-53-2**
		ORP Meter No.: **Horiba U-53-2**

Time (24 hr.)	**Flow rate (ml per minute)**	**Water Temp (°C)**	**pH**	**Cond. (umhos/cm)**	**Dissolved Oxygen (mg/l)**	**Turbidity (NTU)**	**ORP (mV) +/-**	**Settleable Solids (ml/L)**	**Milliliters Purged Before Measurement**	**Water Level (feet)**	**Remarks (e.g. water clarity and odor)**
1320	--	--	--	--	--	--	--	--	--	19.63	TD= 34.10
1325	600	27.75	7.25	3,870	1.97	18.2	--	--	2,000	22.00	Start purging. Clear water. No odor.
1330	600	27.73	7.26	3,860	0.73	14.0	--	--	5,000	22.10	Clear water. No odor.
1335	600	27.49	7.30	3,850	0.33	4.7	--	--	8,000	22.10	Clear water. No odor.
1340	600	27.25	7.32	3,770	0.29	0.9	--	--	11,000	22.00	Clear water. No odor.
1345	600	27.30	7.30	3,770	0.16	0.5	--	--	14,000	22.00	Clear water. No odor.
1350	600	27.32	7.30	3,770	0.15	0.8	--	--	17,000	22.00	Clear water. No odor.
1355	600	27.35	7.30	3,770		0.8	--	--	20,000	22.00	Sample Well

Notes:
NA = Non-applicable

Recorded By Edwin Moncayo Date 3/12/019
Checked By Alex Santini Date 3/13/2019

GROUP DELTA

PURGE LOG

Project Name:	**SDSU Mission Valley**	Project No.:	**SD605**		
PID/FID Readings:	NA	(Ambient)	NA	(well mouth)	
Static Levels:	NA	(product)		(water)	
Notes: Dedicated tubing used					
Pump ■ /Bail □	Avg. Rate:	Total Milliliters Extracted:			
Disposition of Discharge Water:	**Storage drum**				

Well Information		**Equipment Information**
Number:	R-86AS	Bailer No.: **NA**
Location:		Pump No.: **Monsoon Pump 12V SS**
Datum:		Interface Probe No.: **100'- Solinst**
Elev. Datum Point:		Sounder No.: NA
Top Of Casing Elev.:		pH Meter No.: **Horiba U-53-2**
Well Diameter:	2"	Conductivity Meter No.: **Horiba U-53-2**
Well Depth:	27.65	Thermometer No.: **Horiba U-53-2**
Well Material:	**PVC Sch 40**	D.O. Meter No.: **Horiba U-53-2**
Screen:	12-27.5	Turbidity Meter No.: **Horiba U-53-2**
		ORP Meter No.: **Horiba U-53-2**

Time (24 hr.)	Flow rate (ml per minute)	Water Temp (°C)	pH	Cond. (umhos/cm)	Dissolved Oxygen (mg/l)	Turbidity (NTU)	ORP (mV) +/-	Settleable Solids (ml/L)	Milliliters Purged Before Measurement	Water Level (feet)	Remarks (e.g. water clarity and odor)
1045	--	--	--	--	--	--	--	--	--	14.02	TD= 27.65
1230	600	25.34	7.22	3,410	0.86	78.0	--	--	3,000	14.06	Start purging. Cloudy water. No odor.
1235	600	25.43	7.29	3,320	0.46	52.0	--	--	6,000	14.16	Semi-clear water. No odor.
1240	600	26.32	7.30	3,270	0.35	42.0	--	--	9,000	14.10	Clear water. No odor.
1245	600	26.35	7.31	3,260	0.25	34.0	--	--	12,000	14.10	Clear water. No odor.
1250	600	26.36	7.32	3,260	0.25	30.0	--	--	15,000	14.10	Clear water. No odor.
1255	600	26.37	7.34	3,260	0.25	30.1	--	--	18,000	14.10	Sample Well

Notes:
NA = Non-applicable

Recorded By Edwin Moncayo Date 3/12/019
Checked By Alex Santini Date 3/13/2019

GROUP DELTA

Appendix B

Soil Analytical Laboratory Reports

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 19-02-0970

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/01/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-02-0970

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Work Order Narrative

Work Order: 19-02-0970 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/13/19. They were assigned to Work Order 19-02-0970.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-0970
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	02/13/19 19:00
		Number of Containers:	26
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-16-2	19-02-0970-1	02/13/19 08:30	1	Solid
B-16-5	19-02-0970-2	02/13/19 08:40	6	Solid
B-16-10	19-02-0970-3	02/13/19 08:50	6	Solid
S-13-2	19-02-0970-4	02/13/19 11:30	1	Solid
S-13-5	19-02-0970-5	02/13/19 11:45	6	Solid
S-13-10	19-02-0970-6	02/13/19 12:05	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-0970
		Project Name:	SDSU Mission Valley / SD605
		Received:	02/13/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-16-2 (19-02-0970-1)						
Arsenic	1.93		0.735	mg/kg	EPA 6010B	EPA 3050B
Barium	62.1		0.490	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.595		0.245	mg/kg	EPA 6010B	EPA 3050B
Chromium	5.18		0.245	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.16		0.245	mg/kg	EPA 6010B	EPA 3050B
Copper	4.06		0.490	mg/kg	EPA 6010B	EPA 3050B
Lead	1.79		0.490	mg/kg	EPA 6010B	EPA 3050B
Nickel	4.38		0.245	mg/kg	EPA 6010B	EPA 3050B
Vanadium	10.6		0.245	mg/kg	EPA 6010B	EPA 3050B
Zinc	21.4		0.980	mg/kg	EPA 6010B	EPA 3050B
B-16-10 (19-02-0970-3)						
C11-C12	0.036	J	0.022*	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.083		0.071	mg/kg	EPA 8015B (M)	EPA 5035
Benzene	0.80		0.74	ug/kg	EPA 8260B	EPA 5035
S-13-2 (19-02-0970-4)						
Arsenic	1.88		0.743	mg/kg	EPA 6010B	EPA 3050B
Barium	80.0		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.485		0.248	mg/kg	EPA 6010B	EPA 3050B
Chromium	9.51		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.62		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	5.74		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	2.19		0.495	mg/kg	EPA 6010B	EPA 3050B
Nickel	4.80		0.248	mg/kg	EPA 6010B	EPA 3050B
Vanadium	21.8		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	22.1		0.990	mg/kg	EPA 6010B	EPA 3050B
S-13-5 (19-02-0970-5)						
C6	0.023	J	0.022*	mg/kg	EPA 8015B (M)	EPA 5035
C8	0.065	J	0.024*	mg/kg	EPA 8015B (M)	EPA 5035
C9-C10	0.77		0.074	mg/kg	EPA 8015B (M)	EPA 5035
C11-C12	0.44		0.074	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	1.3		0.074	mg/kg	EPA 8015B (M)	EPA 5035
C13-C14	6.7		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C19-C20	2.1	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	4.2	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	6.6		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	8.6		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	10		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	14		5.0	mg/kg	EPA 8015B (M)	EPA 3550B

* MDL is shown

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-0970
		Project Name:	SDSU Mission Valley / SD605
		Received:	02/13/19
Attn:	Alex Santini		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
S-13-10 (19-02-0970-6)						
C9-C10	0.12		0.077	mg/kg	EPA 8015B (M)	EPA 5035
C11-C12	0.11		0.077	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.27		0.077	mg/kg	EPA 8015B (M)	EPA 5035
C13-C14	3.9	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C19-C20	1.9	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	4.7	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	10		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	12		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-5	**19-02-0970-2-A**	**02/13/19 08:40**	**Solid**	**GC 47**	**02/14/19**	**02/16/19 01:25**	**190214B07B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-10	**19-02-0970-3-A**	**02/13/19 08:50**	**Solid**	**GC 47**	**02/14/19**	**02/16/19 01:47**	**190214B07B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.1	1.3	1.00	
C15-C16	ND	5.1	1.3	1.00	
C17-C18	ND	5.1	1.3	1.00	
C19-C20	ND	5.1	1.3	1.00	
C21-C22	ND	5.1	1.3	1.00	
C23-C24	ND	5.1	1.3	1.00	
C25-C26	ND	5.1	1.3	1.00	
C27-C28	ND	5.1	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.1	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	107	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-5	**19-02-0970-5-A**	**02/13/19 11:45**	**Solid**	**GC 47**	**02/14/19**	**02/16/19 02:09**	**190214B07B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	6.7	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	2.1	5.0	1.3	1.00	J
C21-C22	4.2	5.0	1.3	1.00	J
C23-C24	6.6	5.0	1.3	1.00	
C25-C26	8.6	5.0	1.3	1.00	
C27-C28	10	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	14	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	119	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-10	**19-02-0970-6-A**	**02/13/19 12:05**	**Solid**	**GC 47**	**02/14/19**	**02/16/19 02:30**	**190214B07B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	3.9	5.0	1.3	1.00	J
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	1.9	5.0	1.3	1.00	J
C21-C22	4.7	5.0	1.3	1.00	J
C23-C24	10	5.0	1.3	1.00	
C25-C26	11	5.0	1.3	1.00	
C27-C28	12	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	11	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	113	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-556**	**N/A**	**Solid**	**GC 47**	**02/14/19**	**02/15/19 15:38**	**190214B07B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	112	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-5	**19-02-0970-2-F**	**02/13/19 08:40**	**Solid**	**GC 56**	**02/13/19**	**02/14/19 20:40**	**190214L044**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.074	0.043	1.00	
C6	ND	0.074	0.022	1.00	
C7	ND	0.074	0.024	1.00	
C8	ND	0.074	0.025	1.00	
C9-C10	ND	0.074	0.027	1.00	
C11-C12	ND	0.074	0.023	1.00	
GRO (C4-C12) Total	ND	0.074	0.043	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	75	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-10	**19-02-0970-3-F**	**02/13/19 08:50**	**Solid**	**GC 56**	**02/13/19**	**02/14/19 21:14**	**190214L044**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.071	0.041	1.00	
C6	ND	0.071	0.022	1.00	
C7	ND	0.071	0.023	1.00	
C8	ND	0.071	0.024	1.00	
C9-C10	ND	0.071	0.026	1.00	
C11-C12	0.036	0.071	0.022	1.00	J
GRO (C4-C12) Total	0.083	0.071	0.041	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	72	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-5	**19-02-0970-5-F**	**02/13/19 11:45**	**Solid**	**GC 56**	**02/13/19**	**02/14/19 21:47**	**190214L044**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.074	0.043	1.00	
C6	0.023	0.074	0.022	1.00	J
C7	ND	0.074	0.024	1.00	
C8	0.065	0.074	0.024	1.00	J
C9-C10	0.77	0.074	0.027	1.00	
C11-C12	0.44	0.074	0.023	1.00	
GRO (C4-C12) Total	1.3	0.074	0.043	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-10	**19-02-0970-6-F**	**02/13/19 12:05**	**Solid**	**GC 56**	**02/13/19**	**02/14/19 22:21**	**190214L044**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.077	0.045	1.00	
C6	ND	0.077	0.023	1.00	
C7	ND	0.077	0.025	1.00	
C8	ND	0.077	0.026	1.00	
C9-C10	0.12	0.077	0.028	1.00	
C11-C12	0.11	0.077	0.024	1.00	
GRO (C4-C12) Total	0.27	0.077	0.045	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	79	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-917**	**N/A**	**Solid**	**GC 56**	**02/14/19**	**02/14/19 17:18**	**190214L044**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	67	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-2	**19-02-0970-1-A**	**02/13/19 08:30**	**Solid**	**ICP 8300**	**02/15/19**	**02/16/19 11:39**	**190214L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.735	0.980	
Arsenic	1.93	0.735	0.980	
Barium	62.1	0.490	0.980	
Beryllium	0.595	0.245	0.980	
Cadmium	ND	0.490	0.980	
Chromium	5.18	0.245	0.980	
Cobalt	3.16	0.245	0.980	
Copper	4.06	0.490	0.980	
Lead	1.79	0.490	0.980	
Molybdenum	ND	0.245	0.980	
Nickel	4.38	0.245	0.980	
Selenium	ND	0.735	0.980	
Silver	ND	0.245	0.980	
Thallium	ND	0.735	0.980	
Vanadium	10.6	0.245	0.980	
Zinc	21.4	0.980	0.980	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-2	**19-02-0970-4-A**	**02/13/19 11:30**	**Solid**	**ICP 8300**	**02/15/19**	**02/16/19 11:41**	**190214L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	1.88	0.743	0.990	
Barium	80.0	0.495	0.990	
Beryllium	0.485	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	9.51	0.248	0.990	
Cobalt	4.62	0.248	0.990	
Copper	5.74	0.495	0.990	
Lead	2.19	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	4.80	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	21.8	0.248	0.990	
Zinc	22.1	0.990	0.990	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27558**	**N/A**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:24**	**190214L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	ND	0.725	0.966	
Barium	ND	0.483	0.966	
Beryllium	ND	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	ND	0.242	0.966	
Cobalt	ND	0.242	0.966	
Copper	ND	0.483	0.966	
Lead	ND	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	ND	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	0.827	0.725	0.966	
Vanadium	ND	0.242	0.966	
Zinc	ND	0.966	0.966	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-2	**19-02-0970-1-A**	**02/13/19 08:30**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:42**	**190218L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-2	**19-02-0970-4-A**	**02/13/19 11:30**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:44**	**190218L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4434**	**N/A**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:26**	**190218L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-2	**19-02-0970-1-A**	**02/13/19 08:30**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 14:02**	**190218L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-2	**19-02-0970-4-A**	**02/13/19 11:30**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 14:17**	**190218L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3106**	**N/A**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 13:06**	**190218L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	95	24-168	
2,4,5,6-Tetrachloro-m-Xylene	93	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-2	**19-02-0970-1-A**	**02/13/19 08:30**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 14:11**	**190218L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	109	24-168	
2,4,5,6-Tetrachloro-m-Xylene	79	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-2	**19-02-0970-4-A**	**02/13/19 11:30**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 14:29**	**190218L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	111	24-168	
2,4,5,6-Tetrachloro-m-Xylene	93	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-5102**	**N/A**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 12:59**	**190218L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	113	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-2	**19-02-0970-1-a**	**02/13/19 08:30**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 16:04**	**190218L14**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	25	13-127	
Nitrobenzene-d5	22	17-137	
p-Terphenyl-d14	25	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-2	**19-02-0970-4-a**	**02/13/19 11:30**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 16:25**	**190218L14**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	21	13-127	
Nitrobenzene-d5	20	17-137	
p-Terphenyl-d14	26	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-488**	**N/A**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 13:00**	**190218L14**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	34	13-127	
Nitrobenzene-d5	35	17-137	
p-Terphenyl-d14	36	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-5	**19-02-0970-2-C**	**02/13/19 08:40**	**Solid**	**GC/MS LL**	**02/13/19**	**02/20/19 14:26**	**190220L004**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	38	1.00	
Benzene	ND	0.76	1.00	
Bromobenzene	ND	0.76	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.76	1.00	
Bromoform	ND	3.8	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.76	1.00	
sec-Butylbenzene	ND	0.76	1.00	
tert-Butylbenzene	ND	0.76	1.00	
Carbon Disulfide	ND	7.6	1.00	
Carbon Tetrachloride	ND	0.76	1.00	
Chlorobenzene	ND	0.76	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.76	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.76	1.00	
4-Chlorotoluene	ND	0.76	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.00	
1,2-Dibromoethane	ND	0.76	1.00	
Dibromomethane	ND	0.76	1.00	
1,2-Dichlorobenzene	ND	0.76	1.00	
1,3-Dichlorobenzene	ND	0.76	1.00	
1,4-Dichlorobenzene	ND	0.76	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.76	1.00	
1,2-Dichloroethane	ND	0.76	1.00	
1,1-Dichloroethene	ND	0.76	1.00	
c-1,2-Dichloroethene	ND	0.76	1.00	
t-1,2-Dichloroethene	ND	0.76	1.00	
1,2-Dichloropropane	ND	0.76	1.00	
1,3-Dichloropropane	ND	0.76	1.00	
2,2-Dichloropropane	ND	3.8	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.76	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.76	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.76	1.00	
p-Isopropyltoluene	ND	0.76	1.00	
Methylene Chloride	ND	7.6	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.6	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.76	1.00	
1,1,1,2-Tetrachloroethane	ND	0.76	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.76	1.00	
Toluene	ND	0.76	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.76	1.00	
1,1,2-Trichloroethane	ND	0.76	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.6	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.6	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.6	1.00	
Vinyl Chloride	ND	0.76	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.76	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.76	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.76	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.76	1.00	
Ethanol	ND	380	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-16-10	**19-02-0970-3-C**	**02/13/19 08:50**	**Solid**	**GC/MS LL**	**02/13/19**	**02/20/19 14:52**	**190220L004**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	37	1.00	
Benzene	0.80	0.74	1.00	
Bromobenzene	ND	0.74	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.74	1.00	
Bromoform	ND	3.7	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.74	1.00	
sec-Butylbenzene	ND	0.74	1.00	
tert-Butylbenzene	ND	0.74	1.00	
Carbon Disulfide	ND	7.4	1.00	
Carbon Tetrachloride	ND	0.74	1.00	
Chlorobenzene	ND	0.74	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.74	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.74	1.00	
4-Chlorotoluene	ND	0.74	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.00	
1,2-Dibromoethane	ND	0.74	1.00	
Dibromomethane	ND	0.74	1.00	
1,2-Dichlorobenzene	ND	0.74	1.00	
1,3-Dichlorobenzene	ND	0.74	1.00	
1,4-Dichlorobenzene	ND	0.74	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.74	1.00	
1,2-Dichloroethane	ND	0.74	1.00	
1,1-Dichloroethene	ND	0.74	1.00	
c-1,2-Dichloroethene	ND	0.74	1.00	
t-1,2-Dichloroethene	ND	0.74	1.00	
1,2-Dichloropropane	ND	0.74	1.00	
1,3-Dichloropropane	ND	0.74	1.00	
2,2-Dichloropropane	ND	3.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.74	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.74	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.74	1.00	
p-Isopropyltoluene	ND	0.74	1.00	
Methylene Chloride	ND	7.4	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.4	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.74	1.00	
1,1,1,2-Tetrachloroethane	ND	0.74	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.74	1.00	
Toluene	ND	0.74	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.74	1.00	
1,1,2-Trichloroethane	ND	0.74	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.4	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.4	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.4	1.00	
Vinyl Chloride	ND	0.74	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.74	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.74	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.74	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.74	1.00	
Ethanol	ND	370	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	96	79-133	
1,2-Dichloroethane-d4	109	71-155	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-5	**19-02-0970-5-C**	**02/13/19 11:45**	**Solid**	**GC/MS LL**	**02/13/19**	**02/20/19 15:18**	**190220L004**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	ND	0.80	1.00	
Bromobenzene	ND	0.80	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.80	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.80	1.00	
sec-Butylbenzene	ND	0.80	1.00	
tert-Butylbenzene	ND	0.80	1.00	
Carbon Disulfide	ND	8.0	1.00	
Carbon Tetrachloride	ND	0.80	1.00	
Chlorobenzene	ND	0.80	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.80	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.80	1.00	
4-Chlorotoluene	ND	0.80	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.80	1.00	
Dibromomethane	ND	0.80	1.00	
1,2-Dichlorobenzene	ND	0.80	1.00	
1,3-Dichlorobenzene	ND	0.80	1.00	
1,4-Dichlorobenzene	ND	0.80	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.80	1.00	
1,2-Dichloroethane	ND	0.80	1.00	
1,1-Dichloroethene	ND	0.80	1.00	
c-1,2-Dichloroethene	ND	0.80	1.00	
t-1,2-Dichloroethene	ND	0.80	1.00	
1,2-Dichloropropane	ND	0.80	1.00	
1,3-Dichloropropane	ND	0.80	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.80	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.80	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.80	1.00	
p-Isopropyltoluene	ND	0.80	1.00	
Methylene Chloride	ND	8.0	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	8.0	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.80	1.00	
1,1,1,2-Tetrachloroethane	ND	0.80	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.80	1.00	
Toluene	ND	0.80	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.80	1.00	
1,1,2-Trichloroethane	ND	0.80	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.0	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	8.0	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	8.0	1.00	
Vinyl Chloride	ND	0.80	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.80	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.80	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.80	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.80	1.00	
Ethanol	ND	400	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	109	71-155	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13-10	**19-02-0970-6-C**	**02/13/19 12:05**	**Solid**	**GC/MS LL**	**02/13/19**	**02/20/19 15:43**	**190220L004**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	ND	0.94	1.00	
Bromobenzene	ND	0.94	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.94	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.94	1.00	
sec-Butylbenzene	ND	0.94	1.00	
tert-Butylbenzene	ND	0.94	1.00	
Carbon Disulfide	ND	9.4	1.00	
Carbon Tetrachloride	ND	0.94	1.00	
Chlorobenzene	ND	0.94	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.94	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.94	1.00	
4-Chlorotoluene	ND	0.94	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.94	1.00	
Dibromomethane	ND	0.94	1.00	
1,2-Dichlorobenzene	ND	0.94	1.00	
1,3-Dichlorobenzene	ND	0.94	1.00	
1,4-Dichlorobenzene	ND	0.94	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.94	1.00	
1,2-Dichloroethane	ND	0.94	1.00	
1,1-Dichloroethene	ND	0.94	1.00	
c-1,2-Dichloroethene	ND	0.94	1.00	
t-1,2-Dichloroethene	ND	0.94	1.00	
1,2-Dichloropropane	ND	0.94	1.00	
1,3-Dichloropropane	ND	0.94	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 11 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.94	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.94	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.94	1.00	
p-Isopropyltoluene	ND	0.94	1.00	
Methylene Chloride	ND	9.4	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.4	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.94	1.00	
1,1,1,2-Tetrachloroethane	ND	0.94	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.94	1.00	
Toluene	ND	0.94	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.4	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.4	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.4	1.00	
Vinyl Chloride	ND	0.94	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.94	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.94	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.94	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.94	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	96	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	111	71-155	
Toluene-d8	96	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30780**	**N/A**	**Solid**	**GC/MS LL**	**02/20/19**	**02/20/19 11:45**	**190220L004**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 14 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	97	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 3550B
	Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605		Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-0936-1	**Sample**	**Solid**	**GC 47**	**02/14/19**	**02/15/19 18:54**	**190214S07**
19-02-0936-1	**Matrix Spike**	**Solid**	**GC 47**	**02/14/19**	**02/15/19 17:05**	**190214S07**
19-02-0936-1	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**02/14/19**	**02/15/19 17:49**	**190214S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	15.75	400.0	512.3	124	600.6	146	64-130	16	0-15	3,4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-0762-1	**Sample**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:32**	**190214S03**
19-02-0762-1	**Matrix Spike**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:42**	**190214S03**
19-02-0762-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:44**	**190214S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.20	53	14.87	59	50-115	12	0-20	
Arsenic	1.358	25.00	27.31	104	28.29	108	75-125	4	0-20	
Barium	71.59	25.00	78.39	27	69.20	0	75-125	12	0-20	3
Beryllium	ND	25.00	24.68	99	25.88	104	75-125	5	0-20	
Cadmium	ND	25.00	24.57	98	25.97	104	75-125	6	0-20	
Chromium	1.260	25.00	26.72	102	27.79	106	75-125	4	0-20	
Cobalt	ND	25.00	25.21	101	26.76	107	75-125	6	0-20	
Copper	6.904	25.00	28.73	87	30.57	95	75-125	6	0-20	
Lead	ND	25.00	25.96	104	26.67	107	75-125	3	0-20	
Molybdenum	0.2792	25.00	22.32	88	23.06	91	75-125	3	0-20	
Nickel	0.3821	25.00	25.49	100	26.36	104	75-125	3	0-20	
Selenium	39.70	25.00	54.95	61	51.83	49	75-125	6	0-20	3
Silver	ND	12.50	11.13	89	11.31	90	75-125	2	0-20	
Thallium	0.7804	25.00	5.514	19	5.195	18	75-125	6	0-20	3
Vanadium	0.4595	25.00	24.98	98	26.15	103	75-125	5	0-20	
Zinc	2.747	25.00	26.35	94	27.44	99	75-125	4	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1124-1	**Sample**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:30**	**190218S02**
19-02-1124-1	**Matrix Spike**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:33**	**190218S02**
19-02-1124-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:35**	**190218S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.3308	0.8350	0.9471	74	1.250	110	71-137	28	0-14	4

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-16-2	**Sample**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 14:02**	**190218S10**
B-16-2	**Matrix Spike**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 13:34**	**190218S10**
B-16-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 13:48**	**190218S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	18.80	75	19.33	77	50-135	3	0-25	
Alpha-BHC	ND	25.00	18.28	73	18.86	75	50-135	3	0-25	
Beta-BHC	ND	25.00	17.99	72	18.96	76	50-135	5	0-25	
4,4'-DDD	ND	25.00	21.96	88	22.32	89	50-135	2	0-25	
4,4'-DDE	ND	25.00	21.32	85	21.76	87	50-135	2	0-25	
4,4'-DDT	ND	25.00	19.94	80	20.31	81	50-135	2	0-25	
Delta-BHC	ND	25.00	17.69	71	18.31	73	50-135	3	0-25	
Dieldrin	ND	25.00	19.39	78	20.13	81	50-135	4	0-25	
Endosulfan I	ND	25.00	18.13	73	18.93	76	50-135	4	0-25	
Endosulfan II	ND	25.00	20.11	80	20.73	83	50-135	3	0-25	
Endosulfan Sulfate	ND	25.00	20.28	81	21.03	84	50-135	4	0-25	
Endrin	ND	25.00	18.75	75	19.40	78	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	17.68	71	18.25	73	50-135	3	0-25	
Gamma-BHC	ND	25.00	18.08	72	18.80	75	50-135	4	0-25	
Heptachlor	ND	25.00	18.75	75	19.32	77	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	18.87	75	19.74	79	50-135	4	0-25	
Methoxychlor	ND	25.00	19.86	79	20.71	83	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	02/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-0970
Torrance, CA 90501-7243	Preparation:	EPA 3545
	Method:	EPA 8082
Project: SDSU Mission Valley / SD605		Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-16-2	**Sample**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 14:11**	**190218S11**
B-16-2	**Matrix Spike**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 13:35**	**190218S11**
B-16-2	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 13:53**	**190218S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	81.00	81	79.50	80	50-135	2	0-20	
Aroclor-1260	ND	100.0	102.0	102	98.00	98	50-135	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-0763-2	**Sample**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 14:43**	**190218S14**
19-02-0763-2	**Matrix Spike**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 13:42**	**190218S14**
19-02-0763-2	**Matrix Spike Duplicate**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 14:03**	**190218S14**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	0.01853	0.1000	0.07121	53	0.06948	51	20-150	2	0-33	
2-Methylnaphthalene	0.01807	0.1000	0.07557	58	0.07659	59	29-137	1	0-31	
1-Methylnaphthalene	ND	0.1000	0.07452	75	0.07349	73	34-136	1	0-29	
Acenaphthylene	ND	0.1000	0.07364	74	0.07306	73	29-131	1	0-32	
Acenaphthene	ND	0.1000	0.06767	68	0.06673	67	29-137	1	0-28	
Fluorene	ND	0.1000	0.07500	75	0.07529	75	36-132	0	0-27	
Phenanthrene	ND	0.1000	0.07048	70	0.07030	70	20-144	0	0-27	
Anthracene	ND	0.1000	0.06952	70	0.07026	70	26-134	1	0-27	
Fluoranthene	ND	0.1000	0.07416	74	0.07344	73	20-151	1	0-26	
Pyrene	ND	0.1000	0.07420	74	0.07448	74	20-150	0	0-32	
Benzo (a) Anthracene	ND	0.1000	0.07325	73	0.07346	73	24-150	0	0-24	
Chrysene	ND	0.1000	0.07315	73	0.07289	73	25-145	0	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.07738	77	0.08269	83	28-148	7	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.07579	76	0.07171	72	21-153	6	0-26	
Benzo (a) Pyrene	ND	0.1000	0.07919	79	0.07669	77	29-149	3	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.05778	58	0.05519	55	20-154	5	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.06064	61	0.05817	58	20-132	4	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.05725	57	0.05381	54	20-148	6	0-27	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-556	**LCS**	**Solid**	**GC 47**	**02/14/19**	**02/15/19 16:42**	**190214B07B**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	468.1	117	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 02/13/19
370 Amapola Avenue, Suite 212	Work Order: 19-02-0970
Torrance, CA 90501-7243	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: SDSU Mission Valley / SD605	Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-917	**LCS**	**Solid**	**GC 56**	**02/14/19**	**02/14/19 15:37**	**190214L044**
099-13-043-917	**LCSD**	**Solid**	**GC 56**	**02/14/19**	**02/14/19 16:11**	**190214L044**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	2.011	101	1.975	99	55-139	2	0-25	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27558	**LCS**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:27**	**190214L03**
097-01-002-27558	**LCSD**	**Solid**	**ICP 8300**	**02/14/19**	**02/15/19 16:30**	**190214L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	22.56	90	22.11	88	80-120	73-127	2	0-20	
Arsenic	25.00	23.64	95	22.98	92	80-120	73-127	3	0-20	
Barium	25.00	25.61	102	25.55	102	80-120	73-127	0	0-20	
Beryllium	25.00	22.58	90	22.49	90	80-120	73-127	0	0-20	
Cadmium	25.00	24.04	96	23.93	96	80-120	73-127	0	0-20	
Chromium	25.00	23.67	95	23.74	95	80-120	73-127	0	0-20	
Cobalt	25.00	25.03	100	24.91	100	80-120	73-127	0	0-20	
Copper	25.00	23.36	93	23.33	93	80-120	73-127	0	0-20	
Lead	25.00	25.72	103	25.26	101	80-120	73-127	2	0-20	
Molybdenum	25.00	22.68	91	22.43	90	80-120	73-127	1	0-20	
Nickel	25.00	24.93	100	24.66	99	80-120	73-127	1	0-20	
Selenium	25.00	23.60	94	23.44	94	80-120	73-127	1	0-20	
Silver	12.50	11.98	96	11.95	96	80-120	73-127	0	0-20	
Thallium	25.00	23.03	92	23.12	92	80-120	73-127	0	0-20	
Vanadium	25.00	22.70	91	22.53	90	80-120	73-127	1	0-20	
Zinc	25.00	23.35	93	23.03	92	80-120	73-127	1	0-20	

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

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 02/13/19
370 Amapola Avenue, Suite 212	Work Order: 19-02-0970
Torrance, CA 90501-7243	Preparation: EPA 7471A Total
	Method: EPA 7471A
Project: SDSU Mission Valley / SD605	Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-272-4434	**LCS**	**Solid**	**Mercury 08**	**02/18/19**	**02/18/19 15:28**	**190218L02**
099-16-272-4434	**LCSD**	**Solid**	**Mercury 08**	**02/18/19**	**02/19/19 17:23**	**190218L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	0.8845	106	0.8521	102	85-121	4	0-10	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3106	**LCS**	**Solid**	**GC 51**	**02/18/19**	**02/19/19 13:20**	**190218L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	20.77	83	50-135	36-149	
Alpha-BHC	25.00	21.07	84	50-135	36-149	
Beta-BHC	25.00	20.28	81	50-135	36-149	
4,4'-DDD	25.00	23.09	92	50-135	36-149	
4,4'-DDE	25.00	22.24	89	50-135	36-149	
4,4'-DDT	25.00	20.53	82	50-135	36-149	
Delta-BHC	25.00	20.29	81	50-135	36-149	
Dieldrin	25.00	21.58	86	50-135	36-149	
Endosulfan I	25.00	20.86	83	50-135	36-149	
Endosulfan II	25.00	22.07	88	50-135	36-149	
Endosulfan Sulfate	25.00	22.21	89	50-135	36-149	
Endrin	25.00	19.94	80	50-135	36-149	
Endrin Aldehyde	25.00	21.22	85	50-135	36-149	
Gamma-BHC	25.00	21.03	84	50-135	36-149	
Heptachlor	25.00	21.16	85	50-135	36-149	
Heptachlor Epoxide	25.00	21.35	85	50-135	36-149	
Methoxychlor	25.00	21.02	84	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5102	**LCS**	**Solid**	**GC 58**	**02/18/19**	**02/19/19 13:17**	**190218L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	88.50	88	50-135	
Aroclor-1260	100.0	94.00	94	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-0970
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-488	**LCS**	**Solid**	**GC/MS EEE**	**02/18/19**	**02/19/19 13:22**	**190218L14**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.07966	80	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08512	85	50-127	37-140	
1-Methylnaphthalene	0.1000	0.08305	83	54-132	41-145	
Acenaphthylene	0.1000	0.08227	82	50-123	38-135	
Acenaphthene	0.1000	0.07528	75	53-125	41-137	
Fluorene	0.1000	0.08008	80	55-127	43-139	
Phenanthrene	0.1000	0.07478	75	50-122	38-134	
Anthracene	0.1000	0.07410	74	50-132	36-146	
Fluoranthene	0.1000	0.07703	77	55-127	43-139	
Pyrene	0.1000	0.07841	78	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.07656	77	50-133	36-147	
Chrysene	0.1000	0.07676	77	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.08583	86	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.07729	77	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.08147	81	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.05868	59	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.06348	63	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.05784	58	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/13/19
Work Order: 19-02-0970
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30780	**LCS**	**Solid**	**GC/MS LL**	**02/20/19**	**02/20/19 10:21**	**190220L004**
095-01-025-30780	**LCSD**	**Solid**	**GC/MS LL**	**02/20/19**	**02/20/19 10:46**	**190220L004**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	43.18	86	41.35	83	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	40.17	80	37.49	75	65-137	53-149	7	0-20	
Chlorobenzene	50.00	49.38	99	46.17	92	80-120	73-127	7	0-20	
1,2-Dibromoethane	50.00	53.31	107	50.13	100	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	50.00	53.49	107	52.02	104	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	46.30	93	44.46	89	80-120	73-127	4	0-20	
1,1-Dichloroethene	50.00	40.92	82	38.22	76	68-128	58-138	7	0-20	
Ethylbenzene	50.00	48.86	98	45.77	92	80-120	73-127	7	0-20	
Toluene	50.00	44.43	89	42.17	84	80-120	73-127	5	0-20	
Trichloroethene	50.00	43.57	87	40.65	81	80-120	73-127	7	0-20	
Vinyl Chloride	50.00	42.83	86	41.20	82	67-127	57-137	4	0-20	
p/m-Xylene	100.0	99.38	99	91.76	92	75-125	67-133	8	0-25	
o-Xylene	50.00	51.30	103	47.72	95	75-125	67-133	7	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	35.76	72	34.55	69	70-124	61-133	3	0-20	ME
Tert-Butyl Alcohol (TBA)	250.0	264.7	106	264.0	106	73-121	65-129	0	0-20	
Diisopropyl Ether (DIPE)	50.00	42.89	86	41.02	82	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	38.56	77	37.66	75	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	45.75	91	44.12	88	74-122	66-130	4	0-20	
Ethanol	500.0	549.2	110	540.2	108	51-135	37-149	2	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-02-0970 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	715	GC 56	2
EPA 8015B (M)	EPA 3550B	1028	GC 47	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	1120	GC/MS LL	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS EEE	1

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Glossary of Terms and Qualifiers

Work Order: 19-02-0970 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **19-02-0970**

DATE: 2/13/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.

ADDRESS: 9245 Activity Rd, Suite 103

CITY: San Diego STATE: CA ZIP: 92126

TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley

P.O. NO.: SD605

PROJECT CONTACT: Alex Santini

SAMPLER(S): (PRINT) Samuel Narveson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☒ GRO	☐ TPH(d) ☒ 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
1	B-16-2	2/13/19	0830	Soil	1	X												X	X	X	X	
2	B-16-5	"	0840	"	6	X	X		X	X				X	X							
3	B-16-10	"	0850	"	6	X	X		X	X				X	X							
4	S-13-2		11:30	Soil	1	X												X	X	X	X	
5	S-13-5		11:45	"	6	X	X		X	X				X	X							
6	S-13-10		12:05	"	6	X	X		X	X				X	X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 02/13/19	Time: 1235
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 2/13/19	Time: 1900
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 19-02-0970

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 02/13/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.9 °C (w/ CF): 3.4 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 728

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 728

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 671

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 19-02-1404

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 04/02/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-02-1404

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Work Order Narrative

Work Order: 19-02-1404 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/19/19. They were assigned to Work Order 19-02-1404.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-1404
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	02/19/19 18:40
		Number of Containers:	13
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
S-2-2	19-02-1404-1	02/19/19 08:15	1	Solid
S-2-5	19-02-1404-2	02/19/19 08:20	6	Solid
S-2-10	19-02-1404-3	02/19/19 08:30	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-1404
		Project Name:	SDSU Mission Valley / SD605
		Received:	02/19/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
S-2-2 (19-02-1404-1)						
Arsenic	6.31		0.750	mg/kg	EPA 6010B	EPA 3050B
Barium	125		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.602		0.250	mg/kg	EPA 6010B	EPA 3050B
Chromium	6.00		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.36		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	6.57		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	4.14		0.500	mg/kg	EPA 6010B	EPA 3050B
Nickel	3.84		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	18.1		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	23.9		1.00	mg/kg	EPA 6010B	EPA 3050B
4,4'-DDE	21		5.0	ug/kg	EPA 8081A	EPA 3545
S-2-5 (19-02-1404-2)						
C25-C26	2.0	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	3.7	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
TPH as Diesel	7.0	HD	5.1	mg/kg	EPA 8015B (M)	EPA 3550B
S-2-10 (19-02-1404-3)						
C21-C22	1.3	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	2.1	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-5	**19-02-1404-2-A**	**02/19/19 08:20**	**Solid**	**GC 46**	**02/21/19**	**02/22/19 22:09**	**190221B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	7.0	5.1	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-10	**19-02-1404-3-A**	**02/19/19 08:30**	**Solid**	**GC 46**	**02/21/19**	**02/22/19 22:30**	**190221B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-422-4126**	**N/A**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 14:27**	**190221B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Diesel	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	61-145	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-5	**19-02-1404-2-A**	**02/19/19 08:20**	**Solid**	**GC 46**	**02/21/19**	**02/22/19 22:09**	**190221B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.1	1.3	1.00	
C15-C16	ND	5.1	1.3	1.00	
C17-C18	ND	5.1	1.3	1.00	
C19-C20	ND	5.1	1.3	1.00	
C21-C22	ND	5.1	1.3	1.00	
C23-C24	ND	5.1	1.3	1.00	
C25-C26	2.0	5.1	1.3	1.00	J
C27-C28	3.7	5.1	1.3	1.00	J
C13-C22 TPH Diesel Range	ND	5.1	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-10	**19-02-1404-3-A**	**02/19/19 08:30**	**Solid**	**GC 46**	**02/21/19**	**02/22/19 22:30**	**190221B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.2	1.00	
C15-C16	ND	5.0	1.2	1.00	
C17-C18	ND	5.0	1.2	1.00	
C19-C20	ND	5.0	1.2	1.00	
C21-C22	1.3	5.0	1.2	1.00	J
C23-C24	ND	5.0	1.2	1.00	
C25-C26	ND	5.0	1.2	1.00	
C27-C28	ND	5.0	1.2	1.00	
C13-C22 TPH Diesel Range	2.1	5.0	1.2	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-555**	**N/A**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 14:27**	**190221B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-5	**19-02-1404-2-G**	**02/19/19 08:20**	**Solid**	**GC 4**	**02/19/19**	**02/26/19 22:45**	**190226L016**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.068	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	120	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-10	**19-02-1404-3-G**	**02/19/19 08:30**	**Solid**	**GC 4**	**02/19/19**	**02/26/19 23:19**	**190226L016**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.072	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	123	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-285-7052**	**N/A**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 09:30**	**190226L016**

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.10	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-5	**19-02-1404-2-G**	**02/19/19 08:20**	**Solid**	**GC 4**	**02/19/19**	**02/26/19 22:45**	**190226L054**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.068	0.039	1.00	
C6	ND	0.068	0.021	1.00	
C7	ND	0.068	0.022	1.00	
C8	ND	0.068	0.022	1.00	
C9-C10	ND	0.068	0.025	1.00	
C11-C12	ND	0.068	0.021	1.00	
GRO (C4-C12) Total	ND	0.068	0.039	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	120	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-10	**19-02-1404-3-G**	**02/19/19 08:30**	**Solid**	**GC 4**	**02/19/19**	**02/26/19 23:19**	**190226L054**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.072	0.041	1.00	
C6	ND	0.072	0.022	1.00	
C7	ND	0.072	0.023	1.00	
C8	ND	0.072	0.024	1.00	
C9-C10	ND	0.072	0.026	1.00	
C11-C12	ND	0.072	0.023	1.00	
GRO (C4-C12) Total	ND	0.072	0.041	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	123	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-916**	**N/A**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 09:30**	**190226L054**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-2	**19-02-1404-1-A**	**02/19/19 08:15**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:54**	**190223L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	6.31	0.750	1.00	
Barium	125	0.500	1.00	
Beryllium	0.602	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	6.00	0.250	1.00	
Cobalt	3.36	0.250	1.00	
Copper	6.57	0.500	1.00	
Lead	4.14	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	3.84	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	18.1	0.250	1.00	
Zinc	23.9	1.00	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27588**	**N/A**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:09**	**190223L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	1.03	0.754	1.01	
Arsenic	ND	0.754	1.01	
Barium	ND	0.503	1.01	
Beryllium	ND	0.251	1.01	
Cadmium	ND	0.503	1.01	
Chromium	ND	0.251	1.01	
Cobalt	ND	0.251	1.01	
Copper	ND	0.503	1.01	
Lead	ND	0.503	1.01	
Molybdenum	ND	0.251	1.01	
Nickel	ND	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	ND	0.251	1.01	
Zinc	ND	1.01	1.01	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-2	**19-02-1404-1-A**	**02/19/19 08:15**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 14:55**	**190222L01**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4439**	**N/A**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 12:23**	**190222L01**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-2	**19-02-1404-1-A**	**02/19/19 08:15**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 12:02**	**190221L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	21	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3109**	**N/A**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 11:48**	**190221L06**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	89	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-2	**19-02-1404-1-A**	**02/19/19 08:15**	**Solid**	**GC 58**	**02/21/19**	**02/22/19 12:15**	**190221L07**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Method Blank	099-12-535-5106	N/A	Solid	GC 58	02/21/19	02/22/19 10:09	190221L07

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-2	**19-02-1404-1-A**	**02/19/19 08:15**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/21/19 22:37**	**190220L04**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.020	2.00	
2-Methylnaphthalene	ND	0.020	2.00	
1-Methylnaphthalene	ND	0.020	2.00	
Acenaphthylene	ND	0.020	2.00	
Acenaphthene	ND	0.020	2.00	
Fluorene	ND	0.020	2.00	
Phenanthrene	ND	0.020	2.00	
Anthracene	ND	0.020	2.00	
Fluoranthene	ND	0.020	2.00	
Pyrene	ND	0.020	2.00	
Benzo (a) Anthracene	ND	0.020	2.00	
Chrysene	ND	0.020	2.00	
Benzo (k) Fluoranthene	ND	0.020	2.00	
Benzo (b) Fluoranthene	ND	0.020	2.00	
Benzo (a) Pyrene	ND	0.020	2.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.020	2.00	
Dibenz (a,h) Anthracene	ND	0.020	2.00	
Benzo (g,h,i) Perylene	ND	0.020	2.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	57	13-127	
Nitrobenzene-d5	48	17-137	
p-Terphenyl-d14	60	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-490**	**N/A**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/21/19 13:48**	**190220L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	13-127	
Nitrobenzene-d5	72	17-137	
p-Terphenyl-d14	66	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-5	**19-02-1404-2-C**	**02/19/19 08:20**	**Solid**	**GC/MS OO**	**02/19/19**	**02/20/19 23:13**	**190220L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	35	1.00	
Benzene	ND	0.69	1.00	
Bromobenzene	ND	0.69	1.00	
Bromochloromethane	ND	1.4	1.00	
Bromodichloromethane	ND	0.69	1.00	
Bromoform	ND	3.5	1.00	
Bromomethane	ND	14	1.00	
2-Butanone	ND	14	1.00	
n-Butylbenzene	ND	0.69	1.00	
sec-Butylbenzene	ND	0.69	1.00	
tert-Butylbenzene	ND	0.69	1.00	
Carbon Disulfide	ND	6.9	1.00	
Carbon Tetrachloride	ND	0.69	1.00	
Chlorobenzene	ND	0.69	1.00	
Chloroethane	ND	1.4	1.00	
Chloroform	ND	0.69	1.00	
Chloromethane	ND	14	1.00	
2-Chlorotoluene	ND	0.69	1.00	
4-Chlorotoluene	ND	0.69	1.00	
Dibromochloromethane	ND	1.4	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.5	1.00	
1,2-Dibromoethane	ND	0.69	1.00	
Dibromomethane	ND	0.69	1.00	
1,2-Dichlorobenzene	ND	0.69	1.00	
1,3-Dichlorobenzene	ND	0.69	1.00	
1,4-Dichlorobenzene	ND	0.69	1.00	
Dichlorodifluoromethane	ND	1.4	1.00	
1,1-Dichloroethane	ND	0.69	1.00	
1,2-Dichloroethane	ND	0.69	1.00	
1,1-Dichloroethene	ND	0.69	1.00	
c-1,2-Dichloroethene	ND	0.69	1.00	
t-1,2-Dichloroethene	ND	0.69	1.00	
1,2-Dichloropropane	ND	0.69	1.00	
1,3-Dichloropropane	ND	0.69	1.00	
2,2-Dichloropropane	ND	3.5	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.4	1.00	
c-1,3-Dichloropropene	ND	0.69	1.00	
t-1,3-Dichloropropene	ND	1.4	1.00	
Ethylbenzene	ND	0.69	1.00	
2-Hexanone	ND	14	1.00	
Isopropylbenzene	ND	0.69	1.00	
p-Isopropyltoluene	ND	0.69	1.00	
Methylene Chloride	ND	6.9	1.00	
4-Methyl-2-Pentanone	ND	14	1.00	
Naphthalene	ND	6.9	1.00	
n-Propylbenzene	ND	1.4	1.00	
Styrene	ND	0.69	1.00	
1,1,1,2-Tetrachloroethane	ND	0.69	1.00	
1,1,2,2-Tetrachloroethane	ND	1.4	1.00	
Tetrachloroethene	ND	0.69	1.00	
Toluene	ND	0.69	1.00	
1,2,3-Trichlorobenzene	ND	1.4	1.00	
1,2,4-Trichlorobenzene	ND	1.4	1.00	
1,1,1-Trichloroethane	ND	0.69	1.00	
1,1,2-Trichloroethane	ND	0.69	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	6.9	1.00	
Trichloroethene	ND	1.4	1.00	
Trichlorofluoromethane	ND	6.9	1.00	
1,2,3-Trichloropropane	ND	1.4	1.00	
1,2,4-Trimethylbenzene	ND	1.4	1.00	
1,3,5-Trimethylbenzene	ND	1.4	1.00	
Vinyl Acetate	ND	6.9	1.00	
Vinyl Chloride	ND	0.69	1.00	
p/m-Xylene	ND	1.4	1.00	
o-Xylene	ND	0.69	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.4	1.00	
Tert-Butyl Alcohol (TBA)	ND	14	1.00	
Diisopropyl Ether (DIPE)	ND	0.69	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.69	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.69	1.00	
Ethanol	ND	350	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	111	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-2-10	**19-02-1404-3-C**	**02/19/19 08:30**	**Solid**	**GC/MS OO**	**02/19/19**	**02/20/19 23:41**	**190220L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.78	1.00	
Bromobenzene	ND	0.78	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.78	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.78	1.00	
sec-Butylbenzene	ND	0.78	1.00	
tert-Butylbenzene	ND	0.78	1.00	
Carbon Disulfide	ND	7.8	1.00	
Carbon Tetrachloride	ND	0.78	1.00	
Chlorobenzene	ND	0.78	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.78	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.78	1.00	
4-Chlorotoluene	ND	0.78	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.78	1.00	
Dibromomethane	ND	0.78	1.00	
1,2-Dichlorobenzene	ND	0.78	1.00	
1,3-Dichlorobenzene	ND	0.78	1.00	
1,4-Dichlorobenzene	ND	0.78	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.78	1.00	
1,2-Dichloroethane	ND	0.78	1.00	
1,1-Dichloroethene	ND	0.78	1.00	
c-1,2-Dichloroethene	ND	0.78	1.00	
t-1,2-Dichloroethene	ND	0.78	1.00	
1,2-Dichloropropane	ND	0.78	1.00	
1,3-Dichloropropane	ND	0.78	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.78	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.78	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.78	1.00	
p-Isopropyltoluene	ND	0.78	1.00	
Methylene Chloride	ND	7.8	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.8	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.78	1.00	
1,1,1,2-Tetrachloroethane	ND	0.78	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.78	1.00	
Toluene	ND	0.78	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloroethane	ND	0.78	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.8	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.8	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.8	1.00	
Vinyl Chloride	ND	0.78	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.78	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.78	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.78	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.78	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	111	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30783**	**N/A**	**Solid**	**GC/MS OO**	**02/20/19**	**02/20/19 17:05**	**190220L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	102	71-155	
Toluene-d8	100	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1487-1	**Sample**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 15:09**	**190221S03**
19-02-1487-1	**Matrix Spike**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 15:29**	**190221S03**
19-02-1487-1	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 15:51**	**190221S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	60.11	400.0	469.6	102	433.5	93	64-130	8	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1480-1	**Sample**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:21**	**190223S02**
19-02-1480-1	**Matrix Spike**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:22**	**190223S02**
19-02-1480-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:24**	**190223S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	4.978	20	6.334	25	50-115	24	0-20	3,4
Arsenic	ND	25.00	25.28	101	25.38	102	75-125	0	0-20	
Barium	139.4	25.00	166.7	4X	167.6	4X	75-125	4X	0-20	Q
Beryllium	0.6377	25.00	26.22	102	27.60	108	75-125	5	0-20	
Cadmium	ND	25.00	26.22	105	27.73	111	75-125	6	0-20	
Chromium	15.23	25.00	41.39	105	42.55	109	75-125	3	0-20	
Cobalt	10.03	25.00	36.10	104	37.00	108	75-125	2	0-20	
Copper	14.82	25.00	41.43	106	42.75	112	75-125	3	0-20	
Lead	4.306	25.00	29.79	102	32.19	112	75-125	8	0-20	
Molybdenum	ND	25.00	23.25	93	24.71	99	75-125	6	0-20	
Nickel	16.90	25.00	42.45	102	43.46	106	75-125	2	0-20	
Selenium	ND	25.00	21.85	87	22.63	91	75-125	3	0-20	
Silver	ND	12.50	12.62	101	13.40	107	75-125	6	0-20	
Thallium	ND	25.00	21.59	86	22.77	91	75-125	5	0-20	
Vanadium	30.92	25.00	56.59	103	57.12	105	75-125	1	0-20	
Zinc	53.22	25.00	78.31	100	79.69	106	75-125	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	02/19/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1404
Torrance, CA 90501-7243	Preparation:	EPA 7471A Total
	Method:	EPA 7471A
Project: SDSU Mission Valley / SD605		Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1480-1	**Sample**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 12:28**	**190222S01**
19-02-1480-1	**Matrix Spike**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 12:30**	**190222S01**
19-02-1480-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 12:32**	**190222S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.08609	0.8350	0.7960	85	0.8057	86	71-137	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-2-2	**Sample**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 12:02**	**190221S06**
S-2-2	**Matrix Spike**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 13:28**	**190221S06**
S-2-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 13:42**	**190221S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	20.45	82	20.06	80	50-135	2	0-25	
Alpha-BHC	ND	25.00	19.07	76	19.42	78	50-135	2	0-25	
Beta-BHC	ND	25.00	16.54	66	16.80	67	50-135	2	0-25	
4,4'-DDD	ND	25.00	24.30	97	26.80	107	50-135	10	0-25	
4,4'-DDE	21.38	25.00	39.11	71	52.34	124	50-135	29	0-25	4
4,4'-DDT	ND	25.00	27.35	109	28.04	112	50-135	2	0-25	
Delta-BHC	ND	25.00	18.09	72	18.28	73	50-135	1	0-25	
Dieldrin	ND	25.00	19.56	78	19.74	79	50-135	1	0-25	
Endosulfan I	ND	25.00	18.34	73	18.26	73	50-135	0	0-25	
Endosulfan II	ND	25.00	19.66	79	19.87	79	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	19.73	79	20.00	80	50-135	1	0-25	
Endrin	ND	25.00	20.13	81	20.52	82	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	18.37	73	17.11	68	50-135	7	0-25	
Gamma-BHC	ND	25.00	19.68	79	19.49	78	50-135	1	0-25	
Heptachlor	ND	25.00	19.92	80	20.13	81	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	20.10	80	20.24	81	50-135	1	0-25	
Methoxychlor	ND	25.00	21.70	87	21.75	87	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-2-2	**Sample**	**Solid**	**GC 58**	**02/21/19**	**02/22/19 12:15**	**190221S07**
S-2-2	**Matrix Spike**	**Solid**	**GC 58**	**02/21/19**	**02/22/19 11:39**	**190221S07**
S-2-2	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**02/21/19**	**02/22/19 11:57**	**190221S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	92.50	92	84.00	84	50-135	10	0-20	
Aroclor-1260	ND	100.0	95.50	96	86.00	86	50-135	10	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1397-1	**Sample**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/21/19 22:17**	**190220S04**
19-02-1397-1	**Matrix Spike**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/21/19 21:38**	**190220S04**
19-02-1397-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/22/19 18:40**	**190220S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.04824	48	0.04864	49	20-150	1	0-33	
2-Methylnaphthalene	ND	0.1000	0.05234	52	0.05258	53	29-137	0	0-31	
1-Methylnaphthalene	ND	0.1000	0.04790	48	0.04804	48	34-136	0	0-29	
Acenaphthylene	ND	0.1000	0.05436	54	0.05440	54	29-131	0	0-32	
Acenaphthene	ND	0.1000	0.04802	48	0.04868	49	29-137	1	0-28	
Fluorene	ND	0.1000	0.05042	50	0.05240	52	36-132	4	0-27	
Phenanthrene	ND	0.1000	0.05370	54	0.05486	55	20-144	2	0-27	
Anthracene	ND	0.1000	0.05070	51	0.05046	50	26-134	0	0-27	
Fluoranthene	0.05546	0.1000	0.05966	4	0.06010	5	20-151	1	0-26	3
Pyrene	0.07894	0.1000	0.06778	0	0.06946	0	20-150	2	0-32	3
Benzo (a) Anthracene	0.05068	0.1000	0.06244	12	0.06328	13	24-150	1	0-24	3
Chrysene	0.05370	0.1000	0.06086	7	0.06138	8	25-145	1	0-28	3
Benzo (k) Fluoranthene	0.03848	0.1000	0.04592	7	0.05440	16	28-148	17	0-26	3
Benzo (b) Fluoranthene	0.03778	0.1000	0.05792	20	0.06476	27	21-153	11	0-26	3
Benzo (a) Pyrene	0.05850	0.1000	0.07260	14	0.07342	15	29-149	1	0-22	3
Indeno (1,2,3-c,d) Pyrene	0.03034	0.1000	0.06562	35	0.06486	35	20-154	1	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.06382	64	0.06332	63	20-132	1	0-26	
Benzo (g,h,i) Perylene	0.03658	0.1000	0.07146	35	0.06868	32	20-148	4	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-4126	**LCS**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 14:47**	**190221B03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	388.4	97	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 2 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-555	**LCS**	**Solid**	**GC 46**	**02/21/19**	**02/21/19 14:47**	**190221B03B**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	388.4	97	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 3 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-285-7052	**LCS**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 08:12**	**190226L016**
099-12-285-7052	**LCSD**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 10:04**	**190226L016**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2.000	1.895	95	1.728	86	55-139	9	0-18	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 4 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-916	**LCS**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 08:12**	**190226L054**
099-13-043-916	**LCSD**	**Solid**	**GC 4**	**02/26/19**	**02/26/19 10:04**	**190226L054**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	1.894	95	1.726	86	55-139	9	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 5 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27588	**LCS**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:12**	**190223L02**
097-01-002-27588	**LCSD**	**Solid**	**ICP 8300**	**02/23/19**	**02/25/19 11:13**	**190223L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	27.84	111	28.96	116	80-120	73-127	4	0-20	
Arsenic	25.00	26.90	108	27.66	111	80-120	73-127	3	0-20	
Barium	25.00	28.68	115	28.78	115	80-120	73-127	0	0-20	
Beryllium	25.00	25.53	102	25.62	102	80-120	73-127	0	0-20	
Cadmium	25.00	27.48	110	27.57	110	80-120	73-127	0	0-20	
Chromium	25.00	27.29	109	27.33	109	80-120	73-127	0	0-20	
Cobalt	25.00	28.96	116	29.10	116	80-120	73-127	0	0-20	
Copper	25.00	27.07	108	27.06	108	80-120	73-127	0	0-20	
Lead	25.00	28.68	115	29.36	117	80-120	73-127	2	0-20	
Molybdenum	25.00	26.07	104	26.64	107	80-120	73-127	2	0-20	
Nickel	25.00	28.75	115	28.83	115	80-120	73-127	0	0-20	
Selenium	25.00	25.20	101	24.91	100	80-120	73-127	1	0-20	
Silver	12.50	13.00	104	13.07	105	80-120	73-127	1	0-20	
Thallium	25.00	25.19	101	25.12	100	80-120	73-127	0	0-20	
Vanadium	25.00	25.30	101	25.40	102	80-120	73-127	0	0-20	
Zinc	25.00	27.62	110	28.09	112	80-120	73-127	2	0-20	

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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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 6 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4439	**LCS**	**Solid**	**Mercury 08**	**02/22/19**	**02/22/19 12:25**	**190222L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8055	96	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 7 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3109	**LCS**	**Solid**	**GC 51**	**02/21/19**	**02/22/19 12:17**	**190221L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	21.86	87	50-135	36-149	
Alpha-BHC	25.00	22.48	90	50-135	36-149	
Beta-BHC	25.00	21.23	85	50-135	36-149	
4,4'-DDD	25.00	21.57	86	50-135	36-149	
4,4'-DDE	25.00	22.35	89	50-135	36-149	
4,4'-DDT	25.00	20.40	82	50-135	36-149	
Delta-BHC	25.00	21.89	88	50-135	36-149	
Dieldrin	25.00	21.02	84	50-135	36-149	
Endosulfan I	25.00	20.18	81	50-135	36-149	
Endosulfan II	25.00	20.57	82	50-135	36-149	
Endosulfan Sulfate	25.00	20.97	84	50-135	36-149	
Endrin	25.00	20.59	82	50-135	36-149	
Endrin Aldehyde	25.00	17.90	72	50-135	36-149	
Gamma-BHC	25.00	21.99	88	50-135	36-149	
Heptachlor	25.00	22.30	89	50-135	36-149	
Heptachlor Epoxide	25.00	21.86	87	50-135	36-149	
Methoxychlor	25.00	20.04	80	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 8 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5106	**LCS**	**Solid**	**GC 58**	**02/21/19**	**02/22/19 10:27**	**190221L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	97.00	97	50-135	
Aroclor-1260	100.0	105.5	106	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/19/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1404
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 9 of 10

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-490	**LCS**	**Solid**	**GC/MS AAA**	**02/20/19**	**02/21/19 14:08**	**190220L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.07295	73	51-129	38-142	
2-Methylnaphthalene	0.1000	0.07844	78	50-127	37-140	
1-Methylnaphthalene	0.1000	0.07145	71	54-132	41-145	
Acenaphthylene	0.1000	0.07188	72	50-123	38-135	
Acenaphthene	0.1000	0.06479	65	53-125	41-137	
Fluorene	0.1000	0.06855	69	55-127	43-139	
Phenanthrene	0.1000	0.06409	64	50-122	38-134	
Anthracene	0.1000	0.06520	65	50-132	36-146	
Fluoranthene	0.1000	0.06018	60	55-127	43-139	
Pyrene	0.1000	0.06447	64	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.06311	63	50-133	36-147	
Chrysene	0.1000	0.06304	63	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.05799	58	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.06078	61	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.07152	72	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.06685	67	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.06874	69	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.07181	72	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/19/19
Work Order: 19-02-1404
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30783	**LCS**	**Solid**	**GC/MS OO**	**02/20/19**	**02/20/19 15:11**	**190220L017**
095-01-025-30783	**LCSD**	**Solid**	**GC/MS OO**	**02/20/19**	**02/20/19 15:40**	**190220L017**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.54	101	47.76	96	80-120	73-127	6	0-20	
Carbon Tetrachloride	50.00	59.80	120	55.60	111	65-137	53-149	7	0-20	
Chlorobenzene	50.00	52.30	105	48.18	96	80-120	73-127	8	0-20	
1,2-Dibromoethane	50.00	56.76	114	51.82	104	80-120	73-127	9	0-20	
1,2-Dichlorobenzene	50.00	53.11	106	48.90	98	80-120	73-127	8	0-20	
1,2-Dichloroethane	50.00	52.93	106	50.36	101	80-120	73-127	5	0-20	
1,1-Dichloroethene	50.00	53.72	107	50.35	101	68-128	58-138	6	0-20	
Ethylbenzene	50.00	52.69	105	48.75	98	80-120	73-127	8	0-20	
Toluene	50.00	52.61	105	49.93	100	80-120	73-127	5	0-20	
Trichloroethene	50.00	52.91	106	50.06	100	80-120	73-127	6	0-20	
Vinyl Chloride	50.00	49.34	99	44.79	90	67-127	57-137	10	0-20	
p/m-Xylene	100.0	103.7	104	96.61	97	75-125	67-133	7	0-25	
o-Xylene	50.00	53.19	106	49.36	99	75-125	67-133	7	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	44.57	89	42.39	85	70-124	61-133	5	0-20	
Tert-Butyl Alcohol (TBA)	250.0	277.7	111	263.5	105	73-121	65-129	5	0-20	
Diisopropyl Ether (DIPE)	50.00	52.05	104	48.95	98	69-129	59-139	6	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.80	100	46.69	93	70-124	61-133	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	55.77	112	52.48	105	74-122	66-130	6	0-20	
Ethanol	500.0	511.8	102	525.8	105	51-135	37-149	3	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-02-1404 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	1152	Mercury 08	1
EPA 8015B (M)	EPA 5035	715	GC 4	2
EPA 8015B (M)	EPA 3550B	421	GC 46	1
EPA 8015B (M)	EPA 3550B	972	GC 46	1
EPA 8015B (M)	EPA 3550B	1028	GC 46	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	1178	GC/MS OO	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS AAA	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841
Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

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Glossary of Terms and Qualifiers

Work Order: 19-02-1404 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 19-02-1404

DATE: 2/19/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.

ADDRESS: 9245 Activity Rd, Suite 103

CITY: San Diego STATE: CA ZIP: 92126

TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley

P.O. NO.: SD605

PROJECT CONTACT: Alex Santini

SAMPLER(S): (PRINT) Samuel Narveson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	S-2-2	2/19/19	8:15	1	Soil	X												X	X	X	X	
2	S-2-5	2/19/19	8:20	6	Soil	X	X		X	X				X	X							
3	S-2-10	2/19/19	8:30	6	Soil	X	X		X	X				X	X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Samuel R Narveson	EL	02/19/19	1307
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		2/19/19	1840
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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06/02/14 Revision

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WORK ORDER NUMBER: 19-02-1404

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 02/19/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.7 °C (w/ CF): 3.2 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1163

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 671

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WORK ORDER NUMBER: 19-02-1997

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/08/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-02-1997

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 02/27/19. They were assigned to Work Order 19-02-1997.

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.

DoD Projects:

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-1997
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	02/27/19 18:45
		Number of Containers:	13
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-20-2	19-02-1997-1	02/27/19 08:30	1	Solid
B-20-6	19-02-1997-2	02/27/19 09:50	6	Solid
B-20-10	19-02-1997-3	02/27/19 09:10	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-02-1997
		Project Name:	SDSU Mission Valley / SD605
		Received:	02/27/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-20-2 (19-02-1997-1)						
Arsenic	5.77		0.743	mg/kg	EPA 6010B	EPA 3050B
Barium	88.2		0.495	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.276		0.248	mg/kg	EPA 6010B	EPA 3050B
Chromium	4.13		0.248	mg/kg	EPA 6010B	EPA 3050B
Cobalt	2.37		0.248	mg/kg	EPA 6010B	EPA 3050B
Copper	3.39		0.495	mg/kg	EPA 6010B	EPA 3050B
Lead	3.71		0.495	mg/kg	EPA 6010B	EPA 3050B
Nickel	2.73		0.248	mg/kg	EPA 6010B	EPA 3050B
Vanadium	8.16		0.248	mg/kg	EPA 6010B	EPA 3050B
Zinc	16.7		0.990	mg/kg	EPA 6010B	EPA 3050B
B-20-6 (19-02-1997-2)						
C7	0.049	J	0.024*	mg/kg	EPA 8015B (M)	EPA 5035
C8	0.11		0.074	mg/kg	EPA 8015B (M)	EPA 5035
C9-C10	1.2		0.074	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	1.4		0.074	mg/kg	EPA 8015B (M)	EPA 5035
C13-C14	3.5	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	1.3	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	1.8	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	4.4	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	7.1		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	5.1		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
B-20-10 (19-02-1997-3)						
C7	0.032	J	0.026*	mg/kg	EPA 8015B (M)	EPA 5035
C8	0.030	J	0.027*	mg/kg	EPA 8015B (M)	EPA 5035
C9-C10	0.18		0.081	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.24		0.081	mg/kg	EPA 8015B (M)	EPA 5035

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-6	**19-02-1997-2-A**	**02/27/19 09:50**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 10:32**	**190301B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	3.5	4.9	1.2	1.00	J
C15-C16	ND	4.9	1.2	1.00	
C17-C18	ND	4.9	1.2	1.00	
C19-C20	ND	4.9	1.2	1.00	
C21-C22	1.3	4.9	1.2	1.00	J
C23-C24	1.8	4.9	1.2	1.00	J
C25-C26	4.4	4.9	1.2	1.00	J
C27-C28	7.1	4.9	1.2	1.00	
C13-C22 TPH Diesel Range	5.1	4.9	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-10	**19-02-1997-3-A**	**02/27/19 09:10**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 10:53**	**190301B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	4.8	1.2	1.00	
C15-C16	ND	4.8	1.2	1.00	
C17-C18	ND	4.8	1.2	1.00	
C19-C20	ND	4.8	1.2	1.00	
C21-C22	ND	4.8	1.2	1.00	
C23-C24	ND	4.8	1.2	1.00	
C25-C26	ND	4.8	1.2	1.00	
C27-C28	ND	4.8	1.2	1.00	
C13-C22 TPH Diesel Range	ND	4.8	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-559**	**N/A**	**Solid**	**GC 46**	**03/01/19**	**03/04/19 13:40**	**190301B03B**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-6	**19-02-1997-2-F**	**02/27/19 09:50**	**Solid**	**GC 4**	**02/27/19**	**03/01/19 01:16**	**190228L048**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.074	0.043	1.00	
C6	ND	0.074	0.023	1.00	
C7	0.049	0.074	0.024	1.00	J
C8	0.11	0.074	0.025	1.00	
C9-C10	1.2	0.074	0.027	1.00	
C11-C12	ND	0.074	0.023	1.00	
GRO (C4-C12) Total	1.4	0.074	0.043	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	120	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-10	**19-02-1997-3-F**	**02/27/19 09:10**	**Solid**	**GC 4**	**02/27/19**	**03/01/19 01:50**	**190228L048**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.081	0.047	1.00	
C6	ND	0.081	0.025	1.00	
C7	0.032	0.081	0.026	1.00	J
C8	0.030	0.081	0.027	1.00	J
C9-C10	0.18	0.081	0.029	1.00	
C11-C12	ND	0.081	0.026	1.00	
GRO (C4-C12) Total	0.24	0.081	0.047	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	129	60-126	2,7

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-918**	**N/A**	**Solid**	**GC 4**	**02/28/19**	**02/28/19 11:45**	**190228L048**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	78	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-2	**19-02-1997-1-A**	**02/27/19 08:30**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 15:01**	**190305L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.743	0.990	
Arsenic	5.77	0.743	0.990	
Barium	88.2	0.495	0.990	
Beryllium	0.276	0.248	0.990	
Cadmium	ND	0.495	0.990	
Chromium	4.13	0.248	0.990	
Cobalt	2.37	0.248	0.990	
Copper	3.39	0.495	0.990	
Lead	3.71	0.495	0.990	
Molybdenum	ND	0.248	0.990	
Nickel	2.73	0.248	0.990	
Selenium	ND	0.743	0.990	
Silver	ND	0.248	0.990	
Thallium	ND	0.743	0.990	
Vanadium	8.16	0.248	0.990	
Zinc	16.7	0.990	0.990	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27616**	**N/A**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:02**	**190305L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	ND	0.721	0.962	
Barium	ND	0.481	0.962	
Beryllium	ND	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	ND	0.240	0.962	
Cobalt	ND	0.240	0.962	
Copper	ND	0.481	0.962	
Lead	ND	0.481	0.962	
Molybdenum	ND	0.240	0.962	
Nickel	ND	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	ND	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	ND	0.240	0.962	
Zinc	ND	0.962	0.962	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-2	**19-02-1997-1-A**	**02/27/19 08:30**	**Solid**	**Mercury 08**	**03/06/19**	**03/06/19 12:53**	**190305L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4454**	**N/A**	**Solid**	**Mercury 08**	**03/05/19**	**03/05/19 17:06**	**190305L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-2	**19-02-1997-1-A**	**02/27/19 08:30**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 11:27**	**190304L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3114**	**N/A**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 10:30**	**190304L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-2	**19-02-1997-1-A**	**02/27/19 08:30**	**Solid**	**GC 31**	**03/04/19**	**03/05/19 11:29**	**190304L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

Method Blank	099-12-535-5116	N/A	Solid	GC 31	03/04/19	03/05/19 10:13	190304L09

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	101	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-2	**19-02-1997-1-A**	**02/27/19 08:30**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 12:01**	**190306L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	34	13-127	
Nitrobenzene-d5	32	17-137	
p-Terphenyl-d14	39	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-491**	**N/A**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 11:18**	**190306L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	45	13-127	
Nitrobenzene-d5	42	17-137	
p-Terphenyl-d14	45	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-6	**19-02-1997-2-C**	**02/27/19 09:50**	**Solid**	**GC/MS Q**	**02/27/19**	**02/28/19 16:57**	**190228L006**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	37	1.00	
Benzene	ND	0.75	1.00	
Bromobenzene	ND	0.75	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.75	1.00	
Bromoform	ND	3.7	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.75	1.00	
sec-Butylbenzene	ND	0.75	1.00	
tert-Butylbenzene	ND	0.75	1.00	
Carbon Disulfide	ND	7.5	1.00	
Carbon Tetrachloride	ND	0.75	1.00	
Chlorobenzene	ND	0.75	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.75	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.75	1.00	
4-Chlorotoluene	ND	0.75	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.7	1.00	
1,2-Dibromoethane	ND	0.75	1.00	
Dibromomethane	ND	0.75	1.00	
1,2-Dichlorobenzene	ND	0.75	1.00	
1,3-Dichlorobenzene	ND	0.75	1.00	
1,4-Dichlorobenzene	ND	0.75	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.75	1.00	
1,2-Dichloroethane	ND	0.75	1.00	
1,1-Dichloroethene	ND	0.75	1.00	
c-1,2-Dichloroethene	ND	0.75	1.00	
t-1,2-Dichloroethene	ND	0.75	1.00	
1,2-Dichloropropane	ND	0.75	1.00	
1,3-Dichloropropane	ND	0.75	1.00	
2,2-Dichloropropane	ND	3.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.75	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.75	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.75	1.00	
p-Isopropyltoluene	ND	0.75	1.00	
Methylene Chloride	ND	7.5	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.5	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.75	1.00	
1,1,1,2-Tetrachloroethane	ND	0.75	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.75	1.00	
Toluene	ND	0.75	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.75	1.00	
1,1,2-Trichloroethane	ND	0.75	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.5	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.5	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.5	1.00	
Vinyl Chloride	ND	0.75	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.75	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.75	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.75	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.75	1.00	
Ethanol	ND	370	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	79-133	
1,2-Dichloroethane-d4	108	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-20-10	**19-02-1997-3-C**	**02/27/19 09:10**	**Solid**	**GC/MS Q**	**02/27/19**	**02/28/19 17:24**	**190228L006**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	ND	0.95	1.00	
Bromobenzene	ND	0.95	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.95	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.95	1.00	
sec-Butylbenzene	ND	0.95	1.00	
tert-Butylbenzene	ND	0.95	1.00	
Carbon Disulfide	ND	9.5	1.00	
Carbon Tetrachloride	ND	0.95	1.00	
Chlorobenzene	ND	0.95	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.95	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.95	1.00	
4-Chlorotoluene	ND	0.95	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.95	1.00	
Dibromomethane	ND	0.95	1.00	
1,2-Dichlorobenzene	ND	0.95	1.00	
1,3-Dichlorobenzene	ND	0.95	1.00	
1,4-Dichlorobenzene	ND	0.95	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.95	1.00	
1,2-Dichloroethane	ND	0.95	1.00	
1,1-Dichloroethene	ND	0.95	1.00	
c-1,2-Dichloroethene	ND	0.95	1.00	
t-1,2-Dichloroethene	ND	0.95	1.00	
1,2-Dichloropropane	ND	0.95	1.00	
1,3-Dichloropropane	ND	0.95	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.95	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.95	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.95	1.00	
p-Isopropyltoluene	ND	0.95	1.00	
Methylene Chloride	ND	9.5	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.5	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.95	1.00	
1,1,1,2-Tetrachloroethane	ND	0.95	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.95	1.00	
Toluene	ND	0.95	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.95	1.00	
1,1,2-Trichloroethane	ND	0.95	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.5	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.5	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.5	1.00	
Vinyl Chloride	ND	0.95	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.95	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.95	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.95	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.95	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	79-133	
1,2-Dichloroethane-d4	111	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30806**	**N/A**	**Solid**	**GC/MS Q**	**02/28/19**	**02/28/19 11:28**	**190228L006**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	95	79-133	
1,2-Dichloroethane-d4	98	71-155	
Toluene-d8	99	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1979-2	**Sample**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 08:25**	**190301S03**
19-02-1979-2	**Matrix Spike**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 07:42**	**190301S03**
19-02-1979-2	**Matrix Spike Duplicate**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 08:03**	**190301S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	343.5	86	431.9	108	80-120	23	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-2007-1	**Sample**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:17**	**190305S02**
19-02-2007-1	**Matrix Spike**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:19**	**190305S02**
19-02-2007-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:21**	**190305S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	15.41	62	14.61	58	50-115	5	0-20	
Arsenic	4.179	25.00	29.88	103	29.48	101	75-125	1	0-20	
Barium	97.57	25.00	121.8	97	121.5	96	75-125	0	0-20	
Beryllium	ND	25.00	25.01	100	24.37	97	75-125	3	0-20	
Cadmium	0.7057	25.00	25.92	101	25.52	99	75-125	2	0-20	
Chromium	21.54	25.00	47.79	105	45.98	98	75-125	4	0-20	
Cobalt	2.010	25.00	27.94	104	27.47	102	75-125	2	0-20	
Copper	142.1	25.00	172.6	4X	164.4	4X	75-125	4X	0-20	Q
Lead	17.04	25.00	42.70	103	41.97	100	75-125	2	0-20	
Molybdenum	8.198	25.00	31.83	95	31.19	92	75-125	2	0-20	
Nickel	23.95	25.00	50.45	106	47.90	96	75-125	5	0-20	
Selenium	1.404	25.00	25.29	96	25.30	96	75-125	0	0-20	
Silver	8.764	12.50	21.01	98	20.54	94	75-125	2	0-20	
Thallium	ND	25.00	23.73	95	22.83	91	75-125	4	0-20	
Vanadium	5.478	25.00	30.35	99	29.57	96	75-125	3	0-20	
Zinc	292.7	25.00	311.0	4X	315.5	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-02-1885-2	**Sample**	**Solid**	**Mercury 08**	**03/05/19**	**03/05/19 17:11**	**190305S03**
19-02-1885-2	**Matrix Spike**	**Solid**	**Mercury 08**	**03/05/19**	**03/05/19 17:17**	**190305S03**
19-02-1885-2	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**03/05/19**	**03/05/19 17:23**	**190305S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7632	91	0.8088	97	71-137	6	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-20-2	**Sample**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 11:27**	**190304S08**
B-20-2	**Matrix Spike**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 10:59**	**190304S08**
B-20-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 11:13**	**190304S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	18.62	74	19.99	80	50-135	7	0-25	
Alpha-BHC	ND	25.00	17.47	70	18.98	76	50-135	8	0-25	
Beta-BHC	ND	25.00	18.98	76	20.39	82	50-135	7	0-25	
4,4'-DDD	ND	25.00	21.87	87	22.68	91	50-135	4	0-25	
4,4'-DDE	ND	25.00	21.52	86	22.39	90	50-135	4	0-25	
4,4'-DDT	ND	25.00	23.42	94	23.58	94	50-135	1	0-25	
Delta-BHC	ND	25.00	20.01	80	21.30	85	50-135	6	0-25	
Dieldrin	ND	25.00	20.65	83	21.90	88	50-135	6	0-25	
Endosulfan I	ND	25.00	20.33	81	21.64	87	50-135	6	0-25	
Endosulfan II	ND	25.00	21.61	86	22.44	90	50-135	4	0-25	
Endosulfan Sulfate	ND	25.00	23.02	92	23.39	94	50-135	2	0-25	
Endrin	ND	25.00	20.67	83	21.60	86	50-135	4	0-25	
Endrin Aldehyde	ND	25.00	20.21	81	20.53	82	50-135	2	0-25	
Gamma-BHC	ND	25.00	17.75	71	19.35	77	50-135	9	0-25	
Heptachlor	ND	25.00	19.16	77	20.81	83	50-135	8	0-25	
Heptachlor Epoxide	ND	25.00	19.32	77	20.82	83	50-135	7	0-25	
Methoxychlor	ND	25.00	23.16	93	23.31	93	50-135	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	02/27/19
370 Amapola Avenue, Suite 212	Work Order:	19-02-1997
Torrance, CA 90501-7243	Preparation:	EPA 3545
	Method:	EPA 8082
Project: SDSU Mission Valley / SD605		Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-20-2	**Sample**	**Solid**	**GC 31**	**03/04/19**	**03/05/19 11:29**	**190304S09**
B-20-2	**Matrix Spike**	**Solid**	**GC 31**	**03/04/19**	**03/05/19 10:51**	**190304S09**
B-20-2	**Matrix Spike Duplicate**	**Solid**	**GC 31**	**03/04/19**	**03/05/19 11:10**	**190304S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	86.00	86	76.50	76	50-135	12	0-20	
Aroclor-1260	ND	100.0	90.00	90	81.00	81	50-135	11	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-20-2	**Sample**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 12:01**	**190306S06**
B-20-2	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 12:23**	**190306S06**
B-20-2	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 12:43**	**190306S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.05783	58	0.06004	60	20-150	4	0-33	
2-Methylnaphthalene	ND	0.1000	0.05768	58	0.06117	61	29-137	6	0-31	
1-Methylnaphthalene	ND	0.1000	0.05162	52	0.05419	54	34-136	5	0-29	
Acenaphthylene	ND	0.1000	0.06212	62	0.06460	65	29-131	4	0-32	
Acenaphthene	ND	0.1000	0.05795	58	0.06046	60	29-137	4	0-28	
Fluorene	ND	0.1000	0.06314	63	0.06508	65	36-132	3	0-27	
Phenanthrene	ND	0.1000	0.06419	64	0.06632	66	20-144	3	0-27	
Anthracene	ND	0.1000	0.06455	65	0.06702	67	26-134	4	0-27	
Fluoranthene	ND	0.1000	0.06621	66	0.06798	68	20-151	3	0-26	
Pyrene	ND	0.1000	0.08253	83	0.08414	84	20-150	2	0-32	
Benzo (a) Anthracene	ND	0.1000	0.07813	78	0.07999	80	24-150	2	0-24	
Chrysene	ND	0.1000	0.07449	74	0.07803	78	25-145	5	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.06907	69	0.07499	75	28-148	8	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.08458	85	0.08158	82	21-153	4	0-26	
Benzo (a) Pyrene	ND	0.1000	0.09069	91	0.09355	94	29-149	3	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.07672	77	0.08015	80	20-154	4	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.07864	79	0.08302	83	20-132	5	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.07934	79	0.08248	82	20-148	4	0-27	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS/PDSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 3050B
Method: EPA 6010B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
19-02-2007-1	**Sample**	**Solid**	**ICP 8300**	**03/05/19 00:00**	**03/06/19 14:17**	**190305S02**
19-02-2007-1	**PDS**	**Solid**	**ICP 8300**	**03/05/19 00:00**	**03/06/19 14:23**	**190305S02**
19-02-2007-1	**PDSD**	**Solid**	**ICP 8300**	**03/05/19 00:00**	**03/06/19 14:34**	**190305S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	PDSD Conc.	PDSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	24.28	97	24.63	99	75-125	1	0-20	
Arsenic	4.179	25.00	28.96	99	29.42	101	75-125	2	0-20	
Barium	97.57	25.00	122.5	100	122.3	99	75-125	0	0-20	
Beryllium	ND	25.00	24.19	97	24.09	96	75-125	0	0-20	
Cadmium	0.7057	25.00	25.21	98	25.01	97	75-125	1	0-20	
Chromium	21.54	25.00	45.45	96	45.62	96	75-125	0	0-20	
Cobalt	2.010	25.00	27.08	100	27.00	100	75-125	0	0-20	
Copper	142.1	25.00	164.7	4X	168.7	4X	75-125	4X	0-20	Q
Lead	17.04	25.00	41.80	99	41.57	98	75-125	1	0-20	
Molybdenum	8.198	25.00	32.35	97	32.05	95	75-125	1	0-20	
Nickel	23.95	25.00	49.03	100	48.66	99	75-125	1	0-20	
Selenium	1.404	25.00	26.48	100	25.95	98	75-125	2	0-20	
Silver	8.764	12.50	20.70	96	20.66	95	75-125	0	0-20	
Thallium	ND	25.00	24.45	98	24.01	96	75-125	2	0-20	
Vanadium	5.478	25.00	29.34	95	29.27	95	75-125	0	0-20	
Zinc	292.7	25.00	313.7	4X	312.8	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-559	**LCS**	**Solid**	**GC 46**	**03/01/19**	**03/02/19 07:21**	**190301B03B**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	326.7	82	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-918	**LCS**	**Solid**	**GC 4**	**02/28/19**	**02/28/19 10:37**	**190228L048**
099-13-043-918	**LCSD**	**Solid**	**GC 4**	**02/28/19**	**02/28/19 11:11**	**190228L048**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	1.705	85	1.826	91	55-139	7	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27616	**LCS**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:05**	**190305L02**
097-01-002-27616	**LCSD**	**Solid**	**ICP 8300**	**03/05/19**	**03/06/19 14:07**	**190305L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	25.12	100	24.82	99	80-120	73-127	1	0-20	
Arsenic	25.00	23.59	94	23.49	94	80-120	73-127	0	0-20	
Barium	25.00	25.00	100	24.82	99	80-120	73-127	1	0-20	
Beryllium	25.00	22.33	89	22.11	88	80-120	73-127	1	0-20	
Cadmium	25.00	24.32	97	24.17	97	80-120	73-127	1	0-20	
Chromium	25.00	24.71	99	24.49	98	80-120	73-127	1	0-20	
Cobalt	25.00	26.04	104	25.73	103	80-120	73-127	1	0-20	
Copper	25.00	24.45	98	24.22	97	80-120	73-127	1	0-20	
Lead	25.00	25.36	101	25.08	100	80-120	73-127	1	0-20	
Molybdenum	25.00	23.14	93	23.13	93	80-120	73-127	0	0-20	
Nickel	25.00	25.28	101	25.02	100	80-120	73-127	1	0-20	
Selenium	25.00	21.54	86	21.60	86	80-120	73-127	0	0-20	
Silver	12.50	11.38	91	11.26	90	80-120	73-127	1	0-20	
Thallium	25.00	23.43	94	23.44	94	80-120	73-127	0	0-20	
Vanadium	25.00	22.86	91	22.60	90	80-120	73-127	1	0-20	
Zinc	25.00	24.21	97	24.07	96	80-120	73-127	1	0-20	

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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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4454	**LCS**	**Solid**	**Mercury 08**	**03/05/19**	**03/05/19 18:00**	**190305L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7801	93	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3114	**LCS**	**Solid**	**GC 51**	**03/04/19**	**03/05/19 10:45**	**190304L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.39	90	50-135	36-149	
Alpha-BHC	25.00	22.24	89	50-135	36-149	
Beta-BHC	25.00	21.12	84	50-135	36-149	
4,4'-DDD	25.00	23.80	95	50-135	36-149	
4,4'-DDE	25.00	23.09	92	50-135	36-149	
4,4'-DDT	25.00	24.37	97	50-135	36-149	
Delta-BHC	25.00	22.91	92	50-135	36-149	
Dieldrin	25.00	23.50	94	50-135	36-149	
Endosulfan I	25.00	23.58	94	50-135	36-149	
Endosulfan II	25.00	24.29	97	50-135	36-149	
Endosulfan Sulfate	25.00	25.12	100	50-135	36-149	
Endrin	25.00	20.89	84	50-135	36-149	
Endrin Aldehyde	25.00	22.43	90	50-135	36-149	
Gamma-BHC	25.00	22.30	89	50-135	36-149	
Heptachlor	25.00	23.27	93	50-135	36-149	
Heptachlor Epoxide	25.00	22.82	91	50-135	36-149	
Methoxychlor	25.00	24.81	99	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5116	**LCS**	**Solid**	**GC 31**	**03/04/19**	**03/05/19 10:32**	**190304L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	100.0	100	50-135	
Aroclor-1260	100.0	96.00	96	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	02/27/19
370 Amapola Avenue, Suite 212		Work Order:	19-02-1997
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-491	**LCS**	**Solid**	**GC/MS AAA**	**03/06/19**	**03/07/19 10:59**	**190306L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.08710	87	51-129	38-142	
2-Methylnaphthalene	0.1000	0.09357	94	50-127	37-140	
1-Methylnaphthalene	0.1000	0.08517	85	54-132	41-145	
Acenaphthylene	0.1000	0.09742	97	50-123	38-135	
Acenaphthene	0.1000	0.08701	87	53-125	41-137	
Fluorene	0.1000	0.09167	92	55-127	43-139	
Phenanthrene	0.1000	0.08914	89	50-122	38-134	
Anthracene	0.1000	0.08969	90	50-132	36-146	
Fluoranthene	0.1000	0.08010	80	55-127	43-139	
Pyrene	0.1000	0.09672	97	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.09037	90	50-133	36-147	
Chrysene	0.1000	0.08623	86	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.08249	82	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.09533	95	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1040	104	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.08264	83	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.08416	84	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.08498	85	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 02/27/19
Work Order: 19-02-1997
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30806	**LCS**	**Solid**	**GC/MS Q**	**02/28/19**	**02/28/19 09:16**	**190228L006**
095-01-025-30806	**LCSD**	**Solid**	**GC/MS Q**	**02/28/19**	**02/28/19 09:42**	**190228L006**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	46.72	93	54.06	108	80-120	73-127	15	0-20	
Carbon Tetrachloride	50.00	50.18	100	58.62	117	65-137	53-149	16	0-20	
Chlorobenzene	50.00	47.03	94	54.12	108	80-120	73-127	14	0-20	
1,2-Dibromoethane	50.00	47.06	94	54.37	109	80-120	73-127	14	0-20	
1,2-Dichlorobenzene	50.00	49.62	99	56.18	112	80-120	73-127	12	0-20	
1,2-Dichloroethane	50.00	42.62	85	48.87	98	80-120	73-127	14	0-20	
1,1-Dichloroethene	50.00	44.68	89	51.07	102	68-128	58-138	13	0-20	
Ethylbenzene	50.00	49.13	98	56.93	114	80-120	73-127	15	0-20	
Toluene	50.00	47.84	96	54.81	110	80-120	73-127	14	0-20	
Trichloroethene	50.00	46.92	94	54.74	109	80-120	73-127	15	0-20	
Vinyl Chloride	50.00	47.67	95	50.64	101	67-127	57-137	6	0-20	
p/m-Xylene	100.0	94.19	94	109.1	109	75-125	67-133	15	0-25	
o-Xylene	50.00	47.70	95	54.21	108	75-125	67-133	13	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.14	92	51.86	104	70-124	61-133	12	0-20	
Tert-Butyl Alcohol (TBA)	250.0	214.1	86	241.6	97	73-121	65-129	12	0-20	
Diisopropyl Ether (DIPE)	50.00	47.21	94	52.54	105	69-129	59-139	11	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.66	91	51.12	102	70-124	61-133	11	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	46.43	93	53.30	107	74-122	66-130	14	0-20	
Ethanol	500.0	417.9	84	473.0	95	51-135	37-149	12	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-02-1997 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	715	GC 4	2
EPA 8015B (M)	EPA 3550B	1028	GC 46	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	1096	GC 31	1
EPA 8260B	EPA 5035	316	GC/MS Q	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS AAA	1

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Glossary of Terms and Qualifiers

Work Order: 19-02-1997 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 19-02-1997

DATE: 2/27/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.

ADDRESS: 9245 Activity Rd, Suite 103

CITY: San Diego STATE: CA ZIP: 92126

TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley

P.O. NO.: SD605

PROJECT CONTACT: Alex Santini

SAMPLER(S): (PRINT) Samuel Narveson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	B-20-2	2/27/19	8:30	Soil	1	X												X	X	X	X	
2	B-20-6	2/27/19	8:50	Soil	6	X	X		X	X				X	X							
3	B-20-10	2/27/19	9:10	Soil	6	X	X		X	X				X	X							

	Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
1		EL	02/27/19	1300
2			2/27/19	1845
3			Date:	Time:

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WORK ORDER NUMBER: 19-02-0997

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 02/27/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 1163

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 1017

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WORK ORDER NUMBER: 19-03-0872

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/20/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-0872

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/12/19. They were assigned to Work Order 19-03-0872.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-0872
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/12/19 19:00
		Number of Containers:	13
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-24-2	19-03-0872-1	03/12/19 14:04	1	Solid
B-24-5	19-03-0872-2	03/12/19 14:17	6	Solid
B-24-10	19-03-0872-3	03/12/19 14:25	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-0872
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/12/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-24-2 (19-03-0872-1)						
Arsenic	3.87		0.785	mg/kg	EPA 6010B	EPA 3050B
Barium	60.0		0.524	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.870		0.262	mg/kg	EPA 6010B	EPA 3050B
Chromium	5.17		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.52		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	5.39		0.524	mg/kg	EPA 6010B	EPA 3050B
Lead	4.38		0.524	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.31		0.262	mg/kg	EPA 6010B	EPA 3050B
Vanadium	6.51		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	24.2		1.05	mg/kg	EPA 6010B	EPA 3050B
B-24-5 (19-03-0872-2)						
C9-C10	0.25		0.085	mg/kg	EPA 8015B (M)	EPA 5035
C11-C12	0.13		0.085	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.42		0.085	mg/kg	EPA 8015B (M)	EPA 5035
C13-C14	47		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C15-C16	1.5	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C17-C18	1.4	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C19-C20	5.3		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	12		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	19		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	18		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	21		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	68		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B-24-10 (19-03-0872-3)						
GRO (C4-C12) Total	0.054	J	0.046*	mg/kg	EPA 8015B (M)	EPA 5035
C19-C20	2.6	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	8.5		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	18		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	23		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	27		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	12		5.0	mg/kg	EPA 8015B (M)	EPA 3550B

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-5	**19-03-0872-2-A**	**03/12/19 14:17**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 21:48**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	47	5.0	1.3	1.00	
C15-C16	1.5	5.0	1.3	1.00	J
C17-C18	1.4	5.0	1.3	1.00	J
C19-C20	5.3	5.0	1.3	1.00	
C21-C22	12	5.0	1.3	1.00	
C23-C24	19	5.0	1.3	1.00	
C25-C26	18	5.0	1.3	1.00	
C27-C28	21	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	68	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-10	**19-03-0872-3-A**	**03/12/19 14:25**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 22:08**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.2	1.00	
C15-C16	ND	5.0	1.2	1.00	
C17-C18	ND	5.0	1.2	1.00	
C19-C20	2.6	5.0	1.2	1.00	J
C21-C22	8.5	5.0	1.2	1.00	
C23-C24	18	5.0	1.2	1.00	
C25-C26	23	5.0	1.2	1.00	
C27-C28	27	5.0	1.2	1.00	
C13-C22 TPH Diesel Range	12	5.0	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	101	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-563**	**N/A**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:10**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-5	**19-03-0872-2-G**	**03/12/19 14:17**	**Solid**	**GC 4**	**03/12/19**	**03/15/19 20:48**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.085	0.049	1.00	
C6	ND	0.085	0.026	1.00	
C7	ND	0.085	0.027	1.00	
C8	ND	0.085	0.028	1.00	
C9-C10	0.25	0.085	0.031	1.00	
C11-C12	0.13	0.085	0.027	1.00	
GRO (C4-C12) Total	0.42	0.085	0.049	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	134	60-126	2,7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-10	**19-03-0872-3-G**	**03/12/19 14:25**	**Solid**	**GC 4**	**03/12/19**	**03/15/19 21:22**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.080	0.046	1.00	
C6	ND	0.080	0.024	1.00	
C7	ND	0.080	0.026	1.00	
C8	ND	0.080	0.027	1.00	
C9-C10	ND	0.080	0.029	1.00	
C11-C12	ND	0.080	0.025	1.00	
GRO (C4-C12) Total	0.054	0.080	0.046	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	132	60-126	2,7

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-919**	**N/A**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 13:28**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-2	**19-03-0872-1-A**	**03/12/19 14:04**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:28**	**190316L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Arsenic	3.87	0.785	1.05	
Barium	60.0	0.524	1.05	
Beryllium	0.870	0.262	1.05	
Cadmium	ND	0.524	1.05	
Chromium	5.17	0.262	1.05	
Cobalt	3.52	0.262	1.05	
Copper	5.39	0.524	1.05	
Lead	4.38	0.524	1.05	
Molybdenum	ND	0.262	1.05	
Nickel	5.31	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	6.51	0.262	1.05	
Zinc	24.2	1.05	1.05	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27662**	**N/A**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:06**	**190316L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.732	0.976	
Arsenic	ND	0.732	0.976	
Barium	ND	0.488	0.976	
Beryllium	ND	0.244	0.976	
Cadmium	ND	0.488	0.976	
Chromium	ND	0.244	0.976	
Cobalt	ND	0.244	0.976	
Copper	ND	0.488	0.976	
Lead	ND	0.488	0.976	
Molybdenum	ND	0.244	0.976	
Nickel	ND	0.244	0.976	
Selenium	ND	0.732	0.976	
Silver	ND	0.244	0.976	
Thallium	ND	0.732	0.976	
Vanadium	ND	0.244	0.976	
Zinc	ND	0.976	0.976	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-2	**19-03-0872-1-A**	**03/12/19 14:04**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 16:54**	**190318L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4479**	**N/A**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 15:59**	**190318L02**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-2	**19-03-0872-1-A**	**03/12/19 14:04**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 11:41**	**190313L17**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	78	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3118**	**N/A**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 10:45**	**190313L17**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-2	**19-03-0872-1-A**	**03/12/19 14:04**	**Solid**	**GC 58**	**03/13/19**	**03/14/19 11:21**	**190313L08**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	99	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

Method Blank	099-12-535-5126	N/A	Solid	GC 58	03/13/19	03/14/19 10:10	190313L08

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	97	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-2	**19-03-0872-1-A**	**03/12/19 14:04**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 15:05**	**190316L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	66	13-127	
Nitrobenzene-d5	43	17-137	
p-Terphenyl-d14	50	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-493**	**N/A**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 13:47**	**190316L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	46	13-127	
Nitrobenzene-d5	46	17-137	
p-Terphenyl-d14	49	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-5	**19-03-0872-2-C**	**03/12/19 14:17**	**Solid**	**GC/MS QQ**	**03/12/19**	**03/15/19 16:44**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	ND	0.94	1.00	
Bromobenzene	ND	0.94	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.94	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.94	1.00	
sec-Butylbenzene	ND	0.94	1.00	
tert-Butylbenzene	ND	0.94	1.00	
Carbon Disulfide	ND	9.4	1.00	
Carbon Tetrachloride	ND	0.94	1.00	
Chlorobenzene	ND	0.94	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.94	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.94	1.00	
4-Chlorotoluene	ND	0.94	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.94	1.00	
Dibromomethane	ND	0.94	1.00	
1,2-Dichlorobenzene	ND	0.94	1.00	
1,3-Dichlorobenzene	ND	0.94	1.00	
1,4-Dichlorobenzene	ND	0.94	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.94	1.00	
1,2-Dichloroethane	ND	0.94	1.00	
1,1-Dichloroethene	ND	0.94	1.00	
c-1,2-Dichloroethene	ND	0.94	1.00	
t-1,2-Dichloroethene	ND	0.94	1.00	
1,2-Dichloropropane	ND	0.94	1.00	
1,3-Dichloropropane	ND	0.94	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.94	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.94	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.94	1.00	
p-Isopropyltoluene	ND	0.94	1.00	
Methylene Chloride	ND	9.4	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.4	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.94	1.00	
1,1,1,2-Tetrachloroethane	ND	0.94	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.94	1.00	
Toluene	ND	0.94	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.4	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.4	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.4	1.00	
Vinyl Chloride	ND	0.94	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.94	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.94	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.94	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.94	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	79-133	
1,2-Dichloroethane-d4	102	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-24-10	**19-03-0872-3-C**	**03/12/19 14:25**	**Solid**	**GC/MS QQ**	**03/12/19**	**03/15/19 17:13**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	ND	0.79	1.00	
Bromobenzene	ND	0.79	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.79	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.79	1.00	
sec-Butylbenzene	ND	0.79	1.00	
tert-Butylbenzene	ND	0.79	1.00	
Carbon Disulfide	ND	7.9	1.00	
Carbon Tetrachloride	ND	0.79	1.00	
Chlorobenzene	ND	0.79	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.79	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.79	1.00	
4-Chlorotoluene	ND	0.79	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.79	1.00	
Dibromomethane	ND	0.79	1.00	
1,2-Dichlorobenzene	ND	0.79	1.00	
1,3-Dichlorobenzene	ND	0.79	1.00	
1,4-Dichlorobenzene	ND	0.79	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.79	1.00	
1,2-Dichloroethane	ND	0.79	1.00	
1,1-Dichloroethene	ND	0.79	1.00	
c-1,2-Dichloroethene	ND	0.79	1.00	
t-1,2-Dichloroethene	ND	0.79	1.00	
1,2-Dichloropropane	ND	0.79	1.00	
1,3-Dichloropropane	ND	0.79	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.79	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.79	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.79	1.00	
p-Isopropyltoluene	ND	0.79	1.00	
Methylene Chloride	ND	7.9	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.9	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.79	1.00	
1,1,1,2-Tetrachloroethane	ND	0.79	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.79	1.00	
Toluene	ND	0.79	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.9	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.9	1.00	
Vinyl Chloride	ND	0.79	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.79	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.79	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.79	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.79	1.00	
Ethanol	ND	400	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 9

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

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30823**	**N/A**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 11:18**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0872
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	101	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0889-1	**Sample**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 21:28**	**190318S05**
19-03-0889-1	**Matrix Spike**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:49**	**190318S05**
19-03-0889-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 21:09**	**190318S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	391.0	98	401.2	100	64-130	3	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0873-1	**Sample**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:11**	**190316S03**
19-03-0873-1	**Matrix Spike**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:20**	**190316S03**
19-03-0873-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:22**	**190316S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	6.706	27	4.786	19	50-115	33	0-20	3,4
Arsenic	11.68	25.00	40.06	114	36.90	101	75-125	8	0-20	
Barium	89.41	25.00	107.0	70	99.58	41	75-125	7	0-20	3
Beryllium	0.6915	25.00	28.05	109	24.49	95	75-125	14	0-20	
Cadmium	ND	25.00	27.33	109	23.64	95	75-125	15	0-20	
Chromium	13.93	25.00	41.83	112	36.46	90	75-125	14	0-20	
Cobalt	4.380	25.00	29.80	102	25.75	85	75-125	15	0-20	
Copper	6.377	25.00	33.44	108	29.52	93	75-125	12	0-20	
Lead	3.788	25.00	30.32	106	26.85	92	75-125	12	0-20	
Molybdenum	ND	25.00	24.34	97	21.02	84	75-125	15	0-20	
Nickel	5.846	25.00	33.16	109	29.05	93	75-125	13	0-20	
Selenium	ND	25.00	24.66	99	22.54	90	75-125	9	0-20	
Silver	ND	12.50	11.99	96	12.14	97	75-125	1	0-20	
Thallium	ND	25.00	22.04	88	20.04	80	75-125	9	0-20	
Vanadium	18.87	25.00	46.02	109	39.57	83	75-125	15	0-20	
Zinc	25.43	25.00	50.46	100	46.36	84	75-125	8	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0873-1	**Sample**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 16:08**	**190318S02**
19-03-0873-1	**Matrix Spike**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 16:10**	**190318S02**
19-03-0873-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 16:13**	**190318S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.6375	76	0.7047	84	71-137	10	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-24-2	**Sample**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 11:41**	**190313S17**
B-24-2	**Matrix Spike**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 11:13**	**190313S17**
B-24-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 11:27**	**190313S17**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.52	86	20.07	80	50-135	7	0-25	
Alpha-BHC	ND	25.00	20.76	83	19.80	79	50-135	5	0-25	
Beta-BHC	ND	25.00	22.99	92	21.06	84	50-135	9	0-25	
4,4'-DDD	ND	25.00	24.95	100	23.34	93	50-135	7	0-25	
4,4'-DDE	ND	25.00	24.32	97	22.33	89	50-135	9	0-25	
4,4'-DDT	ND	25.00	25.01	100	22.82	91	50-135	9	0-25	
Delta-BHC	ND	25.00	23.50	94	20.93	84	50-135	12	0-25	
Dieldrin	ND	25.00	24.08	96	22.13	89	50-135	8	0-25	
Endosulfan I	ND	25.00	24.09	96	22.08	88	50-135	9	0-25	
Endosulfan II	ND	25.00	24.87	99	23.01	92	50-135	8	0-25	
Endosulfan Sulfate	ND	25.00	25.50	102	23.47	94	50-135	8	0-25	
Endrin	ND	25.00	22.84	91	20.95	84	50-135	9	0-25	
Endrin Aldehyde	ND	25.00	22.58	90	21.04	84	50-135	7	0-25	
Gamma-BHC	ND	25.00	21.53	86	20.21	81	50-135	6	0-25	
Heptachlor	ND	25.00	22.05	88	20.64	83	50-135	7	0-25	
Heptachlor Epoxide	ND	25.00	22.75	91	20.81	83	50-135	9	0-25	
Methoxychlor	ND	25.00	24.01	96	22.11	88	50-135	8	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-24-2	**Sample**	**Solid**	**GC 58**	**03/13/19**	**03/14/19 11:21**	**190313S08**
B-24-2	**Matrix Spike**	**Solid**	**GC 58**	**03/13/19**	**03/14/19 10:46**	**190313S08**
B-24-2	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**03/13/19**	**03/14/19 11:04**	**190313S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	79.00	79	79.50	80	50-135	1	0-20	
Aroclor-1260	ND	100.0	87.50	88	88.00	88	50-135	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-24-2	**Sample**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 15:05**	**190316S04**
B-24-2	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:26**	**190316S04**
B-24-2	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:46**	**190316S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.08712	87	0.09411	94	20-150	8	0-33	
2-Methylnaphthalene	ND	0.1000	0.09163	92	0.08875	89	29-137	3	0-31	
1-Methylnaphthalene	ND	0.1000	0.08344	83	0.08000	80	34-136	4	0-29	
Acenaphthylene	ND	0.1000	0.08701	87	0.08696	87	29-131	0	0-32	
Acenaphthene	ND	0.1000	0.07943	79	0.07952	80	29-137	0	0-28	
Fluorene	ND	0.1000	0.08544	85	0.08425	84	36-132	1	0-27	
Phenanthrene	ND	0.1000	0.08563	86	0.08934	89	20-144	4	0-27	
Anthracene	ND	0.1000	0.08818	88	0.08849	88	26-134	0	0-27	
Fluoranthene	ND	0.1000	0.08694	87	0.08492	85	20-151	2	0-26	
Pyrene	ND	0.1000	0.09215	92	0.09262	93	20-150	1	0-32	
Benzo (a) Anthracene	ND	0.1000	0.09726	97	0.09511	95	24-150	2	0-24	
Chrysene	ND	0.1000	0.09279	93	0.09159	92	25-145	1	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.08938	89	0.08738	87	28-148	2	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.1016	102	0.09800	98	21-153	4	0-26	
Benzo (a) Pyrene	ND	0.1000	0.1157	116	0.1128	113	29-149	2	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.1023	102	0.1015	101	20-154	1	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.1074	107	0.1069	107	20-132	0	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.1045	104	0.1026	103	20-148	2	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-563	**LCS**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:29**	**190318B05A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	392.2	98	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 03/12/19
370 Amapola Avenue, Suite 212	Work Order: 19-03-0872
Torrance, CA 90501-7243	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: SDSU Mission Valley / SD605	Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-919	**LCS**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 11:46**	**190315L061**
099-13-043-919	**LCSD**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 12:20**	**190315L061**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	1.818	91	1.972	99	55-139	8	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27662	**LCS**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:08**	**190316L03**
097-01-002-27662	**LCSD**	**Solid**	**ICP 8300**	**03/16/19**	**03/18/19 22:10**	**190316L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	27.73	111	27.76	111	80-120	73-127	0	0-20	
Arsenic	25.00	26.96	108	27.13	109	80-120	73-127	1	0-20	
Barium	25.00	26.59	106	26.16	105	80-120	73-127	2	0-20	
Beryllium	25.00	25.38	102	24.94	100	80-120	73-127	2	0-20	
Cadmium	25.00	27.20	109	26.48	106	80-120	73-127	3	0-20	
Chromium	25.00	28.42	114	27.93	112	80-120	73-127	2	0-20	
Cobalt	25.00	27.27	109	26.72	107	80-120	73-127	2	0-20	
Copper	25.00	26.17	105	25.74	103	80-120	73-127	2	0-20	
Lead	25.00	28.05	112	28.09	112	80-120	73-127	0	0-20	
Molybdenum	25.00	25.30	101	25.55	102	80-120	73-127	1	0-20	
Nickel	25.00	28.22	113	27.63	111	80-120	73-127	2	0-20	
Selenium	25.00	24.27	97	24.30	97	80-120	73-127	0	0-20	
Silver	12.50	12.89	103	12.66	101	80-120	73-127	2	0-20	
Thallium	25.00	23.35	93	23.37	93	80-120	73-127	0	0-20	
Vanadium	25.00	23.42	94	22.86	91	80-120	73-127	2	0-20	
Zinc	25.00	23.68	95	23.69	95	80-120	73-127	0	0-20	

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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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4479	**LCS**	**Solid**	**Mercury 08**	**03/18/19**	**03/18/19 16:06**	**190318L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7377	88	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3118	**LCS**	**Solid**	**GC 51**	**03/13/19**	**03/15/19 10:59**	**190313L17**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.40	90	50-135	36-149	
Alpha-BHC	25.00	23.30	93	50-135	36-149	
Beta-BHC	25.00	22.77	91	50-135	36-149	
4,4'-DDD	25.00	24.00	96	50-135	36-149	
4,4'-DDE	25.00	23.19	93	50-135	36-149	
4,4'-DDT	25.00	22.82	91	50-135	36-149	
Delta-BHC	25.00	23.93	96	50-135	36-149	
Dieldrin	25.00	23.90	96	50-135	36-149	
Endosulfan I	25.00	24.50	98	50-135	36-149	
Endosulfan II	25.00	24.35	97	50-135	36-149	
Endosulfan Sulfate	25.00	24.64	99	50-135	36-149	
Endrin	25.00	22.34	89	50-135	36-149	
Endrin Aldehyde	25.00	16.51	66	50-135	36-149	
Gamma-BHC	25.00	23.30	93	50-135	36-149	
Heptachlor	25.00	23.54	94	50-135	36-149	
Heptachlor Epoxide	25.00	22.83	91	50-135	36-149	
Methoxychlor	25.00	21.78	87	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5126	**LCS**	**Solid**	**GC 58**	**03/13/19**	**03/14/19 10:28**	**190313L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	91.00	91	50-135	
Aroclor-1260	100.0	89.00	89	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0872
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-493	**LCS**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:07**	**190316L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.07762	78	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08076	81	50-127	37-140	
1-Methylnaphthalene	0.1000	0.07507	75	54-132	41-145	
Acenaphthylene	0.1000	0.07964	80	50-123	38-135	
Acenaphthene	0.1000	0.07102	71	53-125	41-137	
Fluorene	0.1000	0.07666	77	55-127	43-139	
Phenanthrene	0.1000	0.07677	77	50-122	38-134	
Anthracene	0.1000	0.08105	81	50-132	36-146	
Fluoranthene	0.1000	0.08057	81	55-127	43-139	
Pyrene	0.1000	0.08674	87	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.09936	99	50-133	36-147	
Chrysene	0.1000	0.09673	97	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.09392	94	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.1095	109	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1232	123	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.1073	107	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.1120	112	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.1084	108	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0872
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30823	**LCS**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 09:43**	**190315L017**
095-01-025-30823	**LCSD**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 10:12**	**190315L017**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.51	107	53.27	107	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	50.31	101	49.58	99	65-137	53-149	1	0-20	
Chlorobenzene	50.00	51.39	103	50.96	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	51.05	102	51.62	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	52.18	104	52.23	104	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	45.49	91	45.35	91	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	51.07	102	51.11	102	68-128	58-138	0	0-20	
Ethylbenzene	50.00	51.90	104	51.77	104	80-120	73-127	0	0-20	
Toluene	50.00	53.72	107	53.63	107	80-120	73-127	0	0-20	
Trichloroethene	50.00	53.17	106	52.71	105	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	35.58	71	34.12	68	67-127	57-137	4	0-20	
p/m-Xylene	100.0	101.0	101	100.6	101	75-125	67-133	0	0-25	
o-Xylene	50.00	51.61	103	51.26	103	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.07	84	42.18	84	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	253.7	101	252.7	101	73-121	65-129	0	0-20	
Diisopropyl Ether (DIPE)	50.00	54.22	108	53.95	108	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.20	92	46.04	92	70-124	61-133	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.82	98	49.05	98	74-122	66-130	0	0-20	
Ethanol	500.0	602.1	120	584.8	117	51-135	37-149	3	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

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Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	607	GC 4	2
EPA 8015B (M)	EPA 3550B	1028	GC 50	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8270C SIM PAHs	EPA 3545	1117	GC/MS AAA	1

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Glossary of Terms and Qualifiers

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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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: 19-03-0872

DATE: 3/12/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.

ADDRESS: 9245 Activity Rd, Suite 103

CITY: San Diego STATE: CA ZIP: 92126

TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley

P.O. NO.: SD605

PROJECT CONTACT: Alex Santini

SAMPLER(S): (PRINT) Allison Bleda

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	B-24-2	3/12/19	2:04 PM	Soil	1	X												X	X	X	X	
2	B-24-5	3/12/19	2:17PM	Soil	6	X	X		X	X				X	X							
3	B-24-10	3/12/19	2:25PM	Soil	6	X	X		X	X				X	X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation) EC	Date: 03/12/19	Time: 1510
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/12/19	Time: 1945
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 19-03-0872

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/12/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.9 °C (w/ CF): 3.4 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (2,3): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 300

Reviewed by: 876

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WORK ORDER NUMBER: 19-03-1022

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/20/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-1022

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Work Order Narrative

Work Order: 19-03-1022 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/13/19. They were assigned to Work Order 19-03-1022.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1022
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/13/19 17:30
		Number of Containers:	13
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-14-2	19-03-1022-1	03/13/19 08:30	1	Solid
B-14-5	19-03-1022-2	03/13/19 09:00	6	Solid
B-14-10	19-03-1022-3	03/13/19 09:17	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1022
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/13/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-14-2 (19-03-1022-1)						
Barium	43.4		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	7.54		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.24		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	5.23		0.521	mg/kg	EPA 6010B	EPA 3050B
Nickel	2.33		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	15.1		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	10.8		1.04	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.211		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
B-14-5 (19-03-1022-2)						
Acetone	83		48	ug/kg	EPA 8260B	EPA 5035
B-14-10 (19-03-1022-3)						
C9-C10	0.028	J	0.027*	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.061	J	0.043*	mg/kg	EPA 8015B (M)	EPA 5035

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-5	**19-03-1022-2-A**	**03/13/19 09:00**	**Solid**	**GC 50**	**03/18/19**	**03/19/19 02:27**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	4.9	1.2	1.00	
C15-C16	ND	4.9	1.2	1.00	
C17-C18	ND	4.9	1.2	1.00	
C19-C20	ND	4.9	1.2	1.00	
C21-C22	ND	4.9	1.2	1.00	
C23-C24	ND	4.9	1.2	1.00	
C25-C26	ND	4.9	1.2	1.00	
C27-C28	ND	4.9	1.2	1.00	
C13-C22 TPH Diesel Range	ND	4.9	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-10	**19-03-1022-3-A**	**03/13/19 09:17**	**Solid**	**GC 50**	**03/18/19**	**03/19/19 02:48**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.2	1.00	
C15-C16	ND	5.0	1.2	1.00	
C17-C18	ND	5.0	1.2	1.00	
C19-C20	ND	5.0	1.2	1.00	
C21-C22	ND	5.0	1.2	1.00	
C23-C24	ND	5.0	1.2	1.00	
C25-C26	ND	5.0	1.2	1.00	
C27-C28	ND	5.0	1.2	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-563**	**N/A**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:10**	**190318B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-5	**19-03-1022-2-F**	**03/13/19 09:00**	**Solid**	**GC 4**	**03/13/19**	**03/15/19 19:07**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.089	0.052	1.00	
C6	ND	0.089	0.027	1.00	
C7	ND	0.089	0.029	1.00	
C8	ND	0.089	0.030	1.00	
C9-C10	ND	0.089	0.032	1.00	
C11-C12	ND	0.089	0.028	1.00	
GRO (C4-C12) Total	ND	0.089	0.052	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-10	**19-03-1022-3-F**	**03/13/19 09:17**	**Solid**	**GC 4**	**03/13/19**	**03/15/19 19:40**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.074	0.043	1.00	
C6	ND	0.074	0.022	1.00	
C7	ND	0.074	0.024	1.00	
C8	ND	0.074	0.024	1.00	
C9-C10	0.028	0.074	0.027	1.00	J
C11-C12	ND	0.074	0.023	1.00	
GRO (C4-C12) Total	0.061	0.074	0.043	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-919**	**N/A**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 13:28**	**190315L061**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	85	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-2	**19-03-1022-1-A**	**03/13/19 08:30**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 22:04**	**190318L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	ND	0.781	1.04	
Barium	43.4	0.521	1.04	
Beryllium	ND	0.260	1.04	
Cadmium	ND	0.521	1.04	
Chromium	7.54	0.260	1.04	
Cobalt	3.24	0.260	1.04	
Copper	5.23	0.521	1.04	
Lead	ND	0.521	1.04	
Molybdenum	ND	0.260	1.04	
Nickel	2.33	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	15.1	0.260	1.04	
Zinc	10.8	1.04	1.04	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27654**	**N/A**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:21**	**190318L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	ND	0.725	0.966	
Barium	ND	0.483	0.966	
Beryllium	ND	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	ND	0.242	0.966	
Cobalt	ND	0.242	0.966	
Copper	ND	0.483	0.966	
Lead	ND	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	ND	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	ND	0.242	0.966	
Zinc	ND	0.966	0.966	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-2	**19-03-1022-1-A**	**03/13/19 08:30**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 13:28**	**190319L01**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.211	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4480**	**N/A**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 12:29**	**190319L01**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-2	**19-03-1022-1-A**	**03/13/19 08:30**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 11:56**	**190315L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	96	24-168	
2,4,5,6-Tetrachloro-m-Xylene	68	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3120**	**N/A**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 11:13**	**190315L08**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-2	**19-03-1022-1-A**	**03/13/19 08:30**	**Solid**	**GC 58**	**03/15/19**	**03/15/19 22:32**	**190315L09**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	93	24-168	
2,4,5,6-Tetrachloro-m-Xylene	76	25-145	

Method Blank	099-12-535-5129	N/A	Solid	GC 58	03/15/19	03/15/19 21:20	190315L09

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-2	**19-03-1022-1-A**	**03/13/19 08:30**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 15:24**	**190316L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	43	13-127	
Nitrobenzene-d5	40	17-137	
p-Terphenyl-d14	43	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-493**	**N/A**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 13:47**	**190316L04**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	46	13-127	
Nitrobenzene-d5	46	17-137	
p-Terphenyl-d14	49	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-5	**19-03-1022-2-C**	**03/13/19 09:00**	**Solid**	**GC/MS QQ**	**03/13/19**	**03/15/19 18:07**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	83	48	1.00	
Benzene	ND	0.97	1.00	
Bromobenzene	ND	0.97	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.97	1.00	
Bromoform	ND	4.8	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.97	1.00	
sec-Butylbenzene	ND	0.97	1.00	
tert-Butylbenzene	ND	0.97	1.00	
Carbon Disulfide	ND	9.7	1.00	
Carbon Tetrachloride	ND	0.97	1.00	
Chlorobenzene	ND	0.97	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.97	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.97	1.00	
4-Chlorotoluene	ND	0.97	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.8	1.00	
1,2-Dibromoethane	ND	0.97	1.00	
Dibromomethane	ND	0.97	1.00	
1,2-Dichlorobenzene	ND	0.97	1.00	
1,3-Dichlorobenzene	ND	0.97	1.00	
1,4-Dichlorobenzene	ND	0.97	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.97	1.00	
1,2-Dichloroethane	ND	0.97	1.00	
1,1-Dichloroethene	ND	0.97	1.00	
c-1,2-Dichloroethene	ND	0.97	1.00	
t-1,2-Dichloroethene	ND	0.97	1.00	
1,2-Dichloropropane	ND	0.97	1.00	
1,3-Dichloropropane	ND	0.97	1.00	
2,2-Dichloropropane	ND	4.8	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.97	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.97	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.97	1.00	
p-Isopropyltoluene	ND	0.97	1.00	
Methylene Chloride	ND	9.7	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.7	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.97	1.00	
1,1,1,2-Tetrachloroethane	ND	0.97	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.97	1.00	
Toluene	ND	0.97	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.97	1.00	
1,1,2-Trichloroethane	ND	0.97	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.7	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.7	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.7	1.00	
Vinyl Chloride	ND	0.97	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.97	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.97	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.97	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.97	1.00	
Ethanol	ND	480	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	103	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-14-10	**19-03-1022-3-C**	**03/13/19 09:17**	**Solid**	**GC/MS QQ**	**03/13/19**	**03/15/19 18:55**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	ND	0.93	1.00	
Bromobenzene	ND	0.93	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.93	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.93	1.00	
sec-Butylbenzene	ND	0.93	1.00	
tert-Butylbenzene	ND	0.93	1.00	
Carbon Disulfide	ND	9.3	1.00	
Carbon Tetrachloride	ND	0.93	1.00	
Chlorobenzene	ND	0.93	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.93	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.93	1.00	
4-Chlorotoluene	ND	0.93	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.93	1.00	
Dibromomethane	ND	0.93	1.00	
1,2-Dichlorobenzene	ND	0.93	1.00	
1,3-Dichlorobenzene	ND	0.93	1.00	
1,4-Dichlorobenzene	ND	0.93	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.93	1.00	
1,2-Dichloroethane	ND	0.93	1.00	
1,1-Dichloroethene	ND	0.93	1.00	
c-1,2-Dichloroethene	ND	0.93	1.00	
t-1,2-Dichloroethene	ND	0.93	1.00	
1,2-Dichloropropane	ND	0.93	1.00	
1,3-Dichloropropane	ND	0.93	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.93	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.93	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.93	1.00	
p-Isopropyltoluene	ND	0.93	1.00	
Methylene Chloride	ND	9.3	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.3	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.93	1.00	
1,1,1,2-Tetrachloroethane	ND	0.93	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.93	1.00	
Toluene	ND	0.93	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.3	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.3	1.00	
Vinyl Chloride	ND	0.93	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.93	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.93	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.93	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.93	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30823**	**N/A**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 11:18**	**190315L017**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	99	71-155	
Toluene-d8	101	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0889-1	**Sample**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 21:28**	**190318S05**
19-03-0889-1	**Matrix Spike**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:49**	**190318S05**
19-03-0889-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 21:09**	**190318S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	391.0	98	401.2	100	64-130	3	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0311-4	**Sample**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:32**	**190318S01**
19-03-0311-4	**Matrix Spike**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:34**	**190318S01**
19-03-0311-4	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:36**	**190318S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	5.992	24	7.090	28	50-115	17	0-20	3
Arsenic	ND	25.00	25.59	102	24.27	97	75-125	5	0-20	
Barium	83.69	25.00	88.64	20	80.23	0	75-125	10	0-20	3
Beryllium	0.5901	25.00	27.06	106	26.08	102	75-125	4	0-20	
Cadmium	0.8282	25.00	27.09	105	26.08	101	75-125	4	0-20	
Chromium	10.46	25.00	39.54	116	37.57	108	75-125	5	0-20	
Cobalt	12.72	25.00	34.92	89	32.19	78	75-125	8	0-20	
Copper	12.36	25.00	37.34	100	34.81	90	75-125	7	0-20	
Lead	ND	25.00	27.12	108	25.78	103	75-125	5	0-20	
Molybdenum	ND	25.00	21.44	86	20.65	83	75-125	4	0-20	
Nickel	17.24	25.00	36.11	75	34.43	69	75-125	5	0-20	3
Selenium	ND	25.00	22.38	90	20.91	84	75-125	7	0-20	
Silver	ND	12.50	12.02	96	12.26	98	75-125	2	0-20	
Thallium	ND	25.00	22.79	91	21.45	86	75-125	6	0-20	
Vanadium	23.53	25.00	46.61	92	41.76	73	75-125	11	0-20	3
Zinc	34.92	25.00	56.12	85	53.45	74	75-125	5	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0929-9	**Sample**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 12:38**	**190319S01**
19-03-0929-9	**Matrix Spike**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 12:41**	**190319S01**
19-03-0929-9	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 12:43**	**190319S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8677	104	0.8509	102	71-137	2	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-14-2	**Sample**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 11:56**	**190315S08**
B-14-2	**Matrix Spike**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 11:27**	**190315S08**
B-14-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 11:42**	**190315S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	16.01	64	16.80	67	50-135	5	0-25	
Alpha-BHC	ND	25.00	15.53	62	16.33	65	50-135	5	0-25	
Beta-BHC	ND	25.00	16.88	68	17.35	69	50-135	3	0-25	
4,4'-DDD	ND	25.00	26.74	107	25.90	104	50-135	3	0-25	
4,4'-DDE	ND	25.00	20.41	82	20.31	81	50-135	0	0-25	
4,4'-DDT	ND	25.00	13.00	52	14.53	58	50-135	11	0-25	
Delta-BHC	ND	25.00	17.38	70	17.74	71	50-135	2	0-25	
Dieldrin	ND	25.00	19.10	76	19.38	78	50-135	1	0-25	
Endosulfan I	ND	25.00	18.43	74	18.93	76	50-135	3	0-25	
Endosulfan II	ND	25.00	20.94	84	21.18	85	50-135	1	0-25	
Endosulfan Sulfate	ND	25.00	22.54	90	22.46	90	50-135	0	0-25	
Endrin	ND	25.00	18.19	73	18.62	74	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	18.54	74	19.62	78	50-135	6	0-25	
Gamma-BHC	ND	25.00	15.75	63	16.59	66	50-135	5	0-25	
Heptachlor	ND	25.00	14.18	57	15.50	62	50-135	9	0-25	
Heptachlor Epoxide	ND	25.00	17.46	70	17.87	71	50-135	2	0-25	
Methoxychlor	ND	25.00	13.01	52	14.75	59	50-135	13	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	03/13/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1022
Torrance, CA 90501-7243	Preparation:	EPA 3545
	Method:	EPA 8082
Project: SDSU Mission Valley / SD605		Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-14-2	**Sample**	**Solid**	**GC 58**	**03/15/19**	**03/15/19 22:32**	**190315S09**
B-14-2	**Matrix Spike**	**Solid**	**GC 58**	**03/15/19**	**03/15/19 21:56**	**190315S09**
B-14-2	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**03/15/19**	**03/15/19 22:14**	**190315S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	74.50	74	74.50	74	50-135	0	0-20	
Aroclor-1260	ND	100.0	84.50	84	82.50	82	50-135	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0872-1	**Sample**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 15:05**	**190316S04**
19-03-0872-1	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:26**	**190316S04**
19-03-0872-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:46**	**190316S04**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.08712	87	0.09411	94	20-150	8	0-33	
2-Methylnaphthalene	ND	0.1000	0.09163	92	0.08875	89	29-137	3	0-31	
1-Methylnaphthalene	ND	0.1000	0.08344	83	0.08000	80	34-136	4	0-29	
Acenaphthylene	ND	0.1000	0.08701	87	0.08696	87	29-131	0	0-32	
Acenaphthene	ND	0.1000	0.07943	79	0.07952	80	29-137	0	0-28	
Fluorene	ND	0.1000	0.08544	85	0.08425	84	36-132	1	0-27	
Phenanthrene	ND	0.1000	0.08563	86	0.08934	89	20-144	4	0-27	
Anthracene	ND	0.1000	0.08818	88	0.08849	88	26-134	0	0-27	
Fluoranthene	ND	0.1000	0.08694	87	0.08492	85	20-151	2	0-26	
Pyrene	ND	0.1000	0.09215	92	0.09262	93	20-150	1	0-32	
Benzo (a) Anthracene	ND	0.1000	0.09726	97	0.09511	95	24-150	2	0-24	
Chrysene	ND	0.1000	0.09279	93	0.09159	92	25-145	1	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.08938	89	0.08738	87	28-148	2	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.1016	102	0.09800	98	21-153	4	0-26	
Benzo (a) Pyrene	ND	0.1000	0.1157	116	0.1128	113	29-149	2	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.1023	102	0.1015	101	20-154	1	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.1074	107	0.1069	107	20-132	0	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.1045	104	0.1026	103	20-148	2	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-563	**LCS**	**Solid**	**GC 50**	**03/18/19**	**03/18/19 20:29**	**190318B05A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	392.2	98	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 03/13/19
370 Amapola Avenue, Suite 212	Work Order: 19-03-1022
Torrance, CA 90501-7243	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: SDSU Mission Valley / SD605	Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-919	**LCS**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 11:46**	**190315L061**
099-13-043-919	**LCSD**	**Solid**	**GC 4**	**03/15/19**	**03/15/19 12:20**	**190315L061**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	1.818	91	1.972	99	55-139	8	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 3050B
Method: EPA 6010B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27654	**LCS**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:23**	**190318L01**
097-01-002-27654	**LCSD**	**Solid**	**ICP 8300**	**03/18/19**	**03/18/19 12:25**	**190318L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	28.17	113	26.80	107	80-120	73-127	5	0-20	
Arsenic	25.00	27.37	109	26.37	105	80-120	73-127	4	0-20	
Barium	25.00	26.76	107	26.03	104	80-120	73-127	3	0-20	
Beryllium	25.00	25.22	101	24.53	98	80-120	73-127	3	0-20	
Cadmium	25.00	26.72	107	25.88	104	80-120	73-127	3	0-20	
Chromium	25.00	28.28	113	27.46	110	80-120	73-127	3	0-20	
Cobalt	25.00	27.40	110	26.77	107	80-120	73-127	2	0-20	
Copper	25.00	26.65	107	26.02	104	80-120	73-127	2	0-20	
Lead	25.00	27.97	112	26.97	108	80-120	73-127	4	0-20	
Molybdenum	25.00	25.91	104	25.16	101	80-120	73-127	3	0-20	
Nickel	25.00	27.82	111	27.06	108	80-120	73-127	3	0-20	
Selenium	25.00	24.10	96	23.42	94	80-120	73-127	3	0-20	
Silver	12.50	12.98	104	12.68	101	80-120	73-127	2	0-20	
Thallium	25.00	24.40	98	23.14	93	80-120	73-127	5	0-20	
Vanadium	25.00	23.51	94	22.85	91	80-120	73-127	3	0-20	
Zinc	25.00	23.52	94	22.64	91	80-120	73-127	4	0-20	

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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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4480	**LCS**	**Solid**	**Mercury 08**	**03/19/19**	**03/19/19 12:31**	**190319L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7617	91	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3120	**LCS**	**Solid**	**GC 51**	**03/15/19**	**03/19/19 12:24**	**190315L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	22.42	90	50-135	36-149	
Alpha-BHC	25.00	22.70	91	50-135	36-149	
Beta-BHC	25.00	21.95	88	50-135	36-149	
4,4'-DDD	25.00	25.23	101	50-135	36-149	
4,4'-DDE	25.00	23.57	94	50-135	36-149	
4,4'-DDT	25.00	20.66	83	50-135	36-149	
Delta-BHC	25.00	23.48	94	50-135	36-149	
Dieldrin	25.00	23.62	94	50-135	36-149	
Endosulfan I	25.00	23.81	95	50-135	36-149	
Endosulfan II	25.00	23.93	96	50-135	36-149	
Endosulfan Sulfate	25.00	23.94	96	50-135	36-149	
Endrin	25.00	22.65	91	50-135	36-149	
Endrin Aldehyde	25.00	21.60	86	50-135	36-149	
Gamma-BHC	25.00	22.45	90	50-135	36-149	
Heptachlor	25.00	22.19	89	50-135	36-149	
Heptachlor Epoxide	25.00	22.97	92	50-135	36-149	
Methoxychlor	25.00	19.97	80	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5129	**LCS**	**Solid**	**GC 58**	**03/15/19**	**03/15/19 21:38**	**190315L09**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	91.50	92	50-135	
Aroclor-1260	100.0	88.00	88	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/13/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1022
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-493	**LCS**	**Solid**	**GC/MS AAA**	**03/16/19**	**03/19/19 14:07**	**190316L04**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.07762	78	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08076	81	50-127	37-140	
1-Methylnaphthalene	0.1000	0.07507	75	54-132	41-145	
Acenaphthylene	0.1000	0.07964	80	50-123	38-135	
Acenaphthene	0.1000	0.07102	71	53-125	41-137	
Fluorene	0.1000	0.07666	77	55-127	43-139	
Phenanthrene	0.1000	0.07677	77	50-122	38-134	
Anthracene	0.1000	0.08105	81	50-132	36-146	
Fluoranthene	0.1000	0.08057	81	55-127	43-139	
Pyrene	0.1000	0.08674	87	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.09936	99	50-133	36-147	
Chrysene	0.1000	0.09673	97	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.09392	94	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.1095	109	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1232	123	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.1073	107	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.1120	112	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.1084	108	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/13/19
Work Order: 19-03-1022
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30823	**LCS**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 09:43**	**190315L017**
095-01-025-30823	**LCSD**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/15/19 10:12**	**190315L017**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.51	107	53.27	107	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	50.31	101	49.58	99	65-137	53-149	1	0-20	
Chlorobenzene	50.00	51.39	103	50.96	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	51.05	102	51.62	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	50.00	52.18	104	52.23	104	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	45.49	91	45.35	91	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	51.07	102	51.11	102	68-128	58-138	0	0-20	
Ethylbenzene	50.00	51.90	104	51.77	104	80-120	73-127	0	0-20	
Toluene	50.00	53.72	107	53.63	107	80-120	73-127	0	0-20	
Trichloroethene	50.00	53.17	106	52.71	105	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	35.58	71	34.12	68	67-127	57-137	4	0-20	
p/m-Xylene	100.0	101.0	101	100.6	101	75-125	67-133	0	0-25	
o-Xylene	50.00	51.61	103	51.26	103	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	42.07	84	42.18	84	70-124	61-133	0	0-20	
Tert-Butyl Alcohol (TBA)	250.0	253.7	101	252.7	101	73-121	65-129	0	0-20	
Diisopropyl Ether (DIPE)	50.00	54.22	108	53.95	108	69-129	59-139	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.20	92	46.04	92	70-124	61-133	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	48.82	98	49.05	98	74-122	66-130	0	0-20	
Ethanol	500.0	602.1	120	584.8	117	51-135	37-149	3	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-03-1022 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	607	GC 4	2
EPA 8015B (M)	EPA 3550B	1028	GC 50	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8270C SIM PAHs	EPA 3545	1117	GC/MS AAA	1

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Glossary of Terms and Qualifiers

Work Order: 19-03-1022 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **19-03-1022**

DATE: 3/13/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.	CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley
ADDRESS: 9245 Activity Rd, Suite 103	P.O. NO.: SD605
CITY: San Diego STATE: CA ZIP: 92126	PROJECT CONTACT: Alex Santini
TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com	SAMPLER(S): (PRINT) Samuel Narveson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF | GLOBAL ID: | LOG CODE:

SPECIAL INSTRUCTIONS:
Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	B-14-2	3/13/19	8:30	Soil	1	X			~~X~~									X	X	X	X	
2	B-14-5	"	9:00	"	6	X	X		X	X				X	X							
3	B-14-10	"	9:17	"	6	X	X		X	X				X	X							

Relinquished by: (Signature) Samuel R Narveson	Received by: (Signature/Affiliation) EZ	Date: 03/13/19	Time: 14:12
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/13/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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06/02/14 Revision

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WORK ORDER NUMBER: 19-03-1022

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/13/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1163

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 671

Reviewed by: 1163

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WORK ORDER NUMBER: 19-03-1162

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/25/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute 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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Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-1162

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Work Order Narrative

Work Order: 19-03-1162 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/14/19. They were assigned to Work Order 19-03-1162.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1162
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/14/19 18:30
		Number of Containers:	13
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
S-8-2	19-03-1162-1	03/14/19 08:10	1	Solid
S-8-5	19-03-1162-2	03/14/19 08:20	6	Solid
S-8-10	19-03-1162-3	03/14/19 08:35	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1162
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/14/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
S-8-2 (19-03-1162-1)						
Arsenic	11.0		0.721	mg/kg	EPA 6010B	EPA 3050B
Barium	193		0.481	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.473		0.240	mg/kg	EPA 6010B	EPA 3050B
Chromium	19.7		0.240	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.69		0.240	mg/kg	EPA 6010B	EPA 3050B
Copper	15.2		0.481	mg/kg	EPA 6010B	EPA 3050B
Lead	4.49		0.481	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.96		0.240	mg/kg	EPA 6010B	EPA 3050B
Nickel	6.12		0.240	mg/kg	EPA 6010B	EPA 3050B
Silver	0.388		0.240	mg/kg	EPA 6010B	EPA 3050B
Vanadium	19.2		0.240	mg/kg	EPA 6010B	EPA 3050B
Zinc	31.5		0.962	mg/kg	EPA 6010B	EPA 3050B
S-8-5 (19-03-1162-2)						
C13-C14	5.1	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C17-C18	2.3	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C19-C20	5.1	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	10		5.2	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	15		5.2	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	20		5.2	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	23		5.2	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	23		5.2	mg/kg	EPA 8015B (M)	EPA 3550B
S-8-10 (19-03-1162-3)						
C4-C5	0.11		0.093	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.15		0.093	mg/kg	EPA 8015B (M)	EPA 5035
C13-C14	10		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C17-C18	3.3	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C19-C20	4.8	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	7.1		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	11		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	17		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	27		5.0	mg/kg	EPA 8015B (M)	EPA 3550B

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-5	**19-03-1162-2-A**	**03/14/19 08:20**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 20:26**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	5.1	5.2	1.3	1.00	J
C15-C16	ND	5.2	1.3	1.00	
C17-C18	2.3	5.2	1.3	1.00	J
C19-C20	5.1	5.2	1.3	1.00	J
C21-C22	10	5.2	1.3	1.00	
C23-C24	15	5.2	1.3	1.00	
C25-C26	20	5.2	1.3	1.00	
C27-C28	23	5.2	1.3	1.00	
C13-C22 TPH Diesel Range	23	5.2	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-10	**19-03-1162-3-A**	**03/14/19 08:35**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 20:47**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	10	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	3.3	5.0	1.3	1.00	J
C19-C20	4.8	5.0	1.3	1.00	J
C21-C22	7.1	5.0	1.3	1.00	
C23-C24	11	5.0	1.3	1.00	
C25-C26	11	5.0	1.3	1.00	
C27-C28	17	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	27	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	100	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-564**	**N/A**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 17:26**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-5	**19-03-1162-2-D**	**03/14/19 08:20**	**Solid**	**GC 57**	**03/14/19**	**03/21/19 17:12**	**190321L025**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.070	0.041	1.00	
C6	ND	0.070	0.021	1.00	
C7	ND	0.070	0.022	1.00	
C8	ND	0.070	0.023	1.00	
C9-C10	ND	0.070	0.026	1.00	
C11-C12	ND	0.070	0.022	1.00	
GRO (C4-C12) Total	ND	0.070	0.041	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	109	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-10	**19-03-1162-3-D**	**03/14/19 08:35**	**Solid**	**GC 57**	**03/14/19**	**03/21/19 18:10**	**190321L025**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	0.11	0.093	0.054	1.00	
C6	ND	0.093	0.028	1.00	
C7	ND	0.093	0.030	1.00	
C8	ND	0.093	0.031	1.00	
C9-C10	ND	0.093	0.034	1.00	
C11-C12	ND	0.093	0.029	1.00	
GRO (C4-C12) Total	0.15	0.093	0.054	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-920**	**N/A**	**Solid**	**GC 57**	**03/21/19**	**03/21/19 16:10**	**190321L025**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-2	**19-03-1162-1-A**	**03/14/19 08:10**	**Solid**	**ICP 8300**	**03/20/19**	**03/22/19 16:24**	**190319L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.721	0.962	
Arsenic	11.0	0.721	0.962	
Barium	193	0.481	0.962	
Beryllium	0.473	0.240	0.962	
Cadmium	ND	0.481	0.962	
Chromium	19.7	0.240	0.962	
Cobalt	3.69	0.240	0.962	
Copper	15.2	0.481	0.962	
Lead	4.49	0.481	0.962	
Molybdenum	1.96	0.240	0.962	
Nickel	6.12	0.240	0.962	
Selenium	ND	0.721	0.962	
Silver	0.388	0.240	0.962	
Thallium	ND	0.721	0.962	
Vanadium	19.2	0.240	0.962	
Zinc	31.5	0.962	0.962	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27664**	**N/A**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:31**	**190319L03**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.725	0.966	
Arsenic	ND	0.725	0.966	
Barium	ND	0.483	0.966	
Beryllium	ND	0.242	0.966	
Cadmium	ND	0.483	0.966	
Chromium	ND	0.242	0.966	
Cobalt	ND	0.242	0.966	
Copper	ND	0.483	0.966	
Lead	ND	0.483	0.966	
Molybdenum	ND	0.242	0.966	
Nickel	ND	0.242	0.966	
Selenium	ND	0.725	0.966	
Silver	ND	0.242	0.966	
Thallium	ND	0.725	0.966	
Vanadium	ND	0.242	0.966	
Zinc	ND	0.966	0.966	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-2	**19-03-1162-1-A**	**03/14/19 08:10**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 18:20**	**190320L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4483**	**N/A**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 17:39**	**190320L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-2	**19-03-1162-1-A**	**03/14/19 08:10**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 14:38**	**190318L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	87	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3121**	**N/A**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 08:43**	**190318L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-2	**19-03-1162-1-A**	**03/14/19 08:10**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 12:24**	**190318L08**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Method Blank	099-12-535-5130	N/A	Solid	GC 58	03/18/19	03/19/19 10:37	190318L08

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-2	**19-03-1162-1-a**	**03/14/19 08:10**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 18:08**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	69	13-127	
Nitrobenzene-d5	53	17-137	
p-Terphenyl-d14	92	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-494**	**N/A**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:32**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	13-127	
Nitrobenzene-d5	84	17-137	
p-Terphenyl-d14	93	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-5	**19-03-1162-2-C**	**03/14/19 08:20**	**Solid**	**GC/MS QQ**	**03/14/19**	**03/20/19 15:25**	**190320L022**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	43	1.00	
Benzene	ND	0.85	1.00	
Bromobenzene	ND	0.85	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.85	1.00	
Bromoform	ND	4.3	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.85	1.00	
sec-Butylbenzene	ND	0.85	1.00	
tert-Butylbenzene	ND	0.85	1.00	
Carbon Disulfide	ND	8.5	1.00	
Carbon Tetrachloride	ND	0.85	1.00	
Chlorobenzene	ND	0.85	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.85	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.85	1.00	
4-Chlorotoluene	ND	0.85	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.3	1.00	
1,2-Dibromoethane	ND	0.85	1.00	
Dibromomethane	ND	0.85	1.00	
1,2-Dichlorobenzene	ND	0.85	1.00	
1,3-Dichlorobenzene	ND	0.85	1.00	
1,4-Dichlorobenzene	ND	0.85	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.85	1.00	
1,2-Dichloroethane	ND	0.85	1.00	
1,1-Dichloroethene	ND	0.85	1.00	
c-1,2-Dichloroethene	ND	0.85	1.00	
t-1,2-Dichloroethene	ND	0.85	1.00	
1,2-Dichloropropane	ND	0.85	1.00	
1,3-Dichloropropane	ND	0.85	1.00	
2,2-Dichloropropane	ND	4.3	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.85	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.85	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.85	1.00	
p-Isopropyltoluene	ND	0.85	1.00	
Methylene Chloride	ND	8.5	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.5	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.85	1.00	
1,1,1,2-Tetrachloroethane	ND	0.85	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.85	1.00	
Toluene	ND	0.85	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.85	1.00	
1,1,2-Trichloroethane	ND	0.85	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.5	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.5	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.5	1.00	
Vinyl Chloride	ND	0.85	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.85	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.85	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.85	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.85	1.00	
Ethanol	ND	430	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	104	79-133	
1,2-Dichloroethane-d4	113	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8-10	**19-03-1162-3-C**	**03/14/19 08:35**	**Solid**	**GC/MS QQ**	**03/14/19**	**03/20/19 15:53**	**190320L022**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	39	1.00	
Benzene	ND	0.77	1.00	
Bromobenzene	ND	0.77	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.77	1.00	
Bromoform	ND	3.9	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.77	1.00	
sec-Butylbenzene	ND	0.77	1.00	
tert-Butylbenzene	ND	0.77	1.00	
Carbon Disulfide	ND	7.7	1.00	
Carbon Tetrachloride	ND	0.77	1.00	
Chlorobenzene	ND	0.77	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.77	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.77	1.00	
4-Chlorotoluene	ND	0.77	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.9	1.00	
1,2-Dibromoethane	ND	0.77	1.00	
Dibromomethane	ND	0.77	1.00	
1,2-Dichlorobenzene	ND	0.77	1.00	
1,3-Dichlorobenzene	ND	0.77	1.00	
1,4-Dichlorobenzene	ND	0.77	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.77	1.00	
1,2-Dichloroethane	ND	0.77	1.00	
1,1-Dichloroethene	ND	0.77	1.00	
c-1,2-Dichloroethene	ND	0.77	1.00	
t-1,2-Dichloroethene	ND	0.77	1.00	
1,2-Dichloropropane	ND	0.77	1.00	
1,3-Dichloropropane	ND	0.77	1.00	
2,2-Dichloropropane	ND	3.9	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.77	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.77	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.77	1.00	
p-Isopropyltoluene	ND	0.77	1.00	
Methylene Chloride	ND	7.7	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.7	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.77	1.00	
1,1,1,2-Tetrachloroethane	ND	0.77	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.77	1.00	
Toluene	ND	0.77	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloroethane	ND	0.77	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.7	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.7	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.7	1.00	
Vinyl Chloride	ND	0.77	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.77	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.77	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.77	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.77	1.00	
Ethanol	ND	390	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	115	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30830**	**N/A**	**Solid**	**GC/MS QQ**	**03/20/19**	**03/20/19 11:36**	**190320L022**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 9

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/14/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1162
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 9 of 9

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	104	71-155	
Toluene-d8	101	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1053-2	**Sample**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:46**	**190319S01**
19-03-1053-2	**Matrix Spike**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:06**	**190319S01**
19-03-1053-2	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:26**	**190319S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	422.7	106	416.0	104	80-120	2	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1064-1	**Sample**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:39**	**190319S03**
19-03-1064-1	**Matrix Spike**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:41**	**190319S03**
19-03-1064-1	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:43**	**190319S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	15.37	61	18.59	74	50-115	19	0-20	
Arsenic	ND	25.00	22.46	90	27.15	109	75-125	19	0-20	
Barium	130.4	25.00	158.6	4X	181.7	4X	75-125	4X	0-20	Q
Beryllium	ND	25.00	23.60	94	28.35	113	75-125	18	0-20	
Cadmium	ND	25.00	23.68	95	27.91	112	75-125	16	0-20	
Chromium	10.84	25.00	35.07	97	40.78	120	75-125	15	0-20	
Cobalt	0.7012	25.00	24.23	94	28.85	113	75-125	17	0-20	
Copper	59.32	25.00	87.52	113	103.0	175	75-125	16	0-20	3
Lead	8.885	25.00	33.63	99	39.34	122	75-125	16	0-20	
Molybdenum	2.262	25.00	24.63	89	29.07	107	75-125	17	0-20	
Nickel	6.769	25.00	29.66	92	34.73	112	75-125	16	0-20	
Selenium	ND	25.00	20.80	83	25.31	101	75-125	20	0-20	
Silver	0.6983	12.50	10.18	76	14.29	109	75-125	34	0-20	4
Thallium	ND	25.00	14.82	59	17.66	71	75-125	17	0-20	3
Vanadium	8.160	25.00	31.34	93	37.22	116	75-125	17	0-20	
Zinc	220.4	25.00	254.8	4X	285.7	4X	75-125	4X	0-20	Q

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1053-2	**Sample**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 17:44**	**190320S03**
19-03-1053-2	**Matrix Spike**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 17:46**	**190320S03**
19-03-1053-2	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 17:49**	**190320S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	0.01737	0.8350	0.7027	82	0.6808	79	71-137	3	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1240-1	**Sample**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:40**	**190318S07**
19-03-1240-1	**Matrix Spike**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:11**	**190318S07**
19-03-1240-1	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:26**	**190318S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.24	85	20.36	81	50-135	4	0-25	
Alpha-BHC	ND	25.00	21.26	85	20.50	82	50-135	4	0-25	
Beta-BHC	ND	25.00	21.67	87	20.87	83	50-135	4	0-25	
4,4'-DDD	ND	25.00	22.93	92	22.59	90	50-135	2	0-25	
4,4'-DDE	ND	25.00	22.47	90	22.01	88	50-135	2	0-25	
4,4'-DDT	ND	25.00	22.89	92	22.71	91	50-135	1	0-25	
Delta-BHC	ND	25.00	20.17	81	19.28	77	50-135	5	0-25	
Dieldrin	ND	25.00	22.07	88	21.45	86	50-135	3	0-25	
Endosulfan I	ND	25.00	22.17	89	21.30	85	50-135	4	0-25	
Endosulfan II	ND	25.00	22.79	91	22.28	89	50-135	2	0-25	
Endosulfan Sulfate	ND	25.00	22.79	91	22.50	90	50-135	1	0-25	
Endrin	ND	25.00	21.87	87	21.29	85	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	19.16	77	18.62	74	50-135	3	0-25	
Gamma-BHC	ND	25.00	21.41	86	20.64	83	50-135	4	0-25	
Heptachlor	ND	25.00	22.20	89	21.55	86	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	21.29	85	20.74	83	50-135	3	0-25	
Methoxychlor	ND	25.00	22.33	89	22.31	89	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0889-1	**Sample**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:48**	**190318S08**
19-03-0889-1	**Matrix Spike**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:13**	**190318S08**
19-03-0889-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:31**	**190318S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	74.00	74	74.00	74	50-135	0	0-20	
Aroclor-1260	ND	100.0	84.00	84	88.00	88	50-135	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1240-1	**Sample**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 17:29**	**190320S06**
19-03-1240-1	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:11**	**190320S06**
19-03-1240-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:31**	**190320S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.09354	94	0.07960	80	20-150	16	0-33	
2-Methylnaphthalene	ND	0.1000	0.09502	95	0.08020	80	29-137	17	0-31	
1-Methylnaphthalene	ND	0.1000	0.08849	88	0.07432	74	34-136	17	0-29	
Acenaphthylene	ND	0.1000	0.09257	93	0.07905	79	29-131	16	0-32	
Acenaphthene	ND	0.1000	0.08528	85	0.07227	72	29-137	17	0-28	
Fluorene	ND	0.1000	0.08765	88	0.07574	76	36-132	15	0-27	
Phenanthrene	ND	0.1000	0.08709	87	0.07717	77	20-144	12	0-27	
Anthracene	ND	0.1000	0.09258	93	0.08180	82	26-134	12	0-27	
Fluoranthene	ND	0.1000	0.08883	89	0.07966	80	20-151	11	0-26	
Pyrene	ND	0.1000	0.09075	91	0.08363	84	20-150	8	0-32	
Benzo (a) Anthracene	ND	0.1000	0.09674	97	0.08717	87	24-150	10	0-24	
Chrysene	ND	0.1000	0.09448	94	0.08676	87	25-145	9	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.09287	93	0.08330	83	28-148	11	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.09680	97	0.08500	85	21-153	13	0-26	
Benzo (a) Pyrene	ND	0.1000	0.1171	117	0.1061	106	29-149	10	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.1030	103	0.09615	96	20-154	7	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.1072	107	0.1005	101	20-132	6	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.1011	101	0.09537	95	20-148	6	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-564	**LCS**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 17:46**	**190319B01C**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	391.9	98	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-920	**LCS**	**Solid**	**GC 57**	**03/21/19**	**03/21/19 14:44**	**190321L025**
099-13-043-920	**LCSD**	**Solid**	**GC 57**	**03/21/19**	**03/21/19 15:12**	**190321L025**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	1.531	77	1.489	74	55-139	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 03/14/19
370 Amapola Avenue, Suite 212	Work Order: 19-03-1162
Torrance, CA 90501-7243	Preparation: EPA 3050B
	Method: EPA 6010B
Project: SDSU Mission Valley / SD605	Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27664	**LCS**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:34**	**190319L03**
097-01-002-27664	**LCSD**	**Solid**	**ICP 8300**	**03/19/19**	**03/20/19 22:36**	**190319L03**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	26.71	107	25.42	102	80-120	73-127	5	0-20	
Arsenic	25.00	23.69	95	23.12	92	80-120	73-127	2	0-20	
Barium	25.00	26.42	106	25.95	104	80-120	73-127	2	0-20	
Beryllium	25.00	23.78	95	23.14	93	80-120	73-127	3	0-20	
Cadmium	25.00	25.07	100	24.48	98	80-120	73-127	2	0-20	
Chromium	25.00	26.08	104	25.55	102	80-120	73-127	2	0-20	
Cobalt	25.00	26.84	107	26.17	105	80-120	73-127	3	0-20	
Copper	25.00	26.00	104	25.45	102	80-120	73-127	2	0-20	
Lead	25.00	27.17	109	26.01	104	80-120	73-127	4	0-20	
Molybdenum	25.00	24.28	97	23.74	95	80-120	73-127	2	0-20	
Nickel	25.00	25.38	102	24.74	99	80-120	73-127	3	0-20	
Selenium	25.00	22.93	92	21.43	86	80-120	73-127	7	0-20	
Silver	12.50	15.16	121	15.46	124	80-120	73-127	2	0-20	ME
Thallium	25.00	24.06	96	23.50	94	80-120	73-127	2	0-20	
Vanadium	25.00	23.50	94	23.02	92	80-120	73-127	2	0-20	
Zinc	25.00	25.10	100	24.07	96	80-120	73-127	4	0-20	

Total number of LCS compounds: 16
Total number of ME compounds: 1
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4483	**LCS**	**Solid**	**Mercury 08**	**03/20/19**	**03/20/19 18:41**	**190320L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7492	90	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3121	**LCS**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 08:57**	**190318L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	19.32	77	50-135	36-149	
Alpha-BHC	25.00	22.80	91	50-135	36-149	
Beta-BHC	25.00	22.10	88	50-135	36-149	
4,4'-DDD	25.00	22.94	92	50-135	36-149	
4,4'-DDE	25.00	22.71	91	50-135	36-149	
4,4'-DDT	25.00	23.48	94	50-135	36-149	
Delta-BHC	25.00	22.17	89	50-135	36-149	
Dieldrin	25.00	22.86	91	50-135	36-149	
Endosulfan I	25.00	23.58	94	50-135	36-149	
Endosulfan II	25.00	23.58	94	50-135	36-149	
Endosulfan Sulfate	25.00	23.76	95	50-135	36-149	
Endrin	25.00	21.86	87	50-135	36-149	
Endrin Aldehyde	25.00	20.23	81	50-135	36-149	
Gamma-BHC	25.00	22.84	91	50-135	36-149	
Heptachlor	25.00	23.47	94	50-135	36-149	
Heptachlor Epoxide	25.00	22.57	90	50-135	36-149	
Methoxychlor	25.00	22.67	91	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5130	**LCS**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 10:55**	**190318L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	96.00	96	50-135	
Aroclor-1260	100.0	92.00	92	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/14/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1162
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-494	**LCS**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:52**	**190320L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.08638	86	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08730	87	50-127	37-140	
1-Methylnaphthalene	0.1000	0.08506	85	54-132	41-145	
Acenaphthylene	0.1000	0.08934	89	50-123	38-135	
Acenaphthene	0.1000	0.07840	78	53-125	41-137	
Fluorene	0.1000	0.08181	82	55-127	43-139	
Phenanthrene	0.1000	0.08132	81	50-122	38-134	
Anthracene	0.1000	0.08767	88	50-132	36-146	
Fluoranthene	0.1000	0.08383	84	55-127	43-139	
Pyrene	0.1000	0.08053	81	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.08688	87	50-133	36-147	
Chrysene	0.1000	0.08556	86	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.08566	86	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.08716	87	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1064	106	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.09170	92	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.09522	95	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.09032	90	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/14/19
Work Order: 19-03-1162
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30830	**LCS**	**Solid**	**GC/MS QQ**	**03/20/19**	**03/20/19 09:51**	**190320L022**
095-01-025-30830	**LCSD**	**Solid**	**GC/MS QQ**	**03/20/19**	**03/20/19 10:19**	**190320L022**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	51.98	104	54.32	109	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	53.32	107	54.41	109	65-137	53-149	2	0-20	
Chlorobenzene	50.00	52.49	105	54.37	109	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	52.95	106	55.30	111	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	50.00	53.75	107	55.59	111	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	51.93	104	54.67	109	80-120	73-127	5	0-20	
1,1-Dichloroethene	50.00	56.58	113	58.43	117	68-128	58-138	3	0-20	
Ethylbenzene	50.00	54.64	109	56.55	113	80-120	73-127	3	0-20	
Toluene	50.00	53.66	107	55.72	111	80-120	73-127	4	0-20	
Trichloroethene	50.00	53.65	107	55.54	111	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	51.73	103	52.25	104	67-127	57-137	1	0-20	
p/m-Xylene	100.0	108.3	108	111.3	111	75-125	67-133	3	0-25	
o-Xylene	50.00	56.11	112	57.83	116	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.60	91	47.38	95	70-124	61-133	4	0-20	
Tert-Butyl Alcohol (TBA)	250.0	257.3	103	259.7	104	73-121	65-129	1	0-20	
Diisopropyl Ether (DIPE)	50.00	52.78	106	54.77	110	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.27	99	51.14	102	70-124	61-133	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	53.63	107	56.47	113	74-122	66-130	5	0-20	
Ethanol	500.0	509.9	102	550.7	110	51-135	37-149	8	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-03-1162 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	771	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	715	GC 57	2
EPA 8015B (M)	EPA 3550B	1028	GC 50	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS AAA	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841
Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

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Glossary of Terms and Qualifiers

Work Order: 19-03-1162 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/PDSD 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.
CI	See case narrative.
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.

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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.

WO # / LAB USE ONLY
19-03-1162

CHAIN OF CUSTODY RECORD

DATE: 3/14/19
PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.
ADDRESS: 9245 Activity Rd, Suite 103
CITY: San Diego STATE: CA ZIP: 92126
TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley
P.O. NO.: SD605
PROJECT CONTACT: Alex Santini
SAMPLER(S): (PRINT) Samuel Narveson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	S-8-2	3/14/19	8:10 AM	Soil	1	X												X	X	X	X	
2	S-8-5	3/14/19	8:20 AM	Soil	6	X	X		X	X				X	X							
3	S-8-10	3/14/19	8:35 AM	Soil	6	X	X		X	X				X	X							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Samuel R Narveson	EC	03/14/19	1420
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		3/14/19	1830
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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06/02/14 Revision

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WORK ORDER NUMBER: 19-03-1162

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/14/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5_) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: 836

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WORK ORDER NUMBER: 19-03-1240

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/25/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-1240

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Work Order Narrative

Work Order: 19-03-1240 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/15/19. They were assigned to Work Order 19-03-1240.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1240
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/15/19 18:00
		Number of Containers:	26
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-26-2	19-03-1240-1	03/15/19 10:35	1	Solid
B-26-5	19-03-1240-2	03/15/19 10:45	6	Solid
B-26-10	19-03-1240-3	03/15/19 11:00	6	Solid
B-27-2	19-03-1240-4	03/15/19 08:31	1	Solid
B-27-5	19-03-1240-5	03/15/19 08:47	6	Solid
B-27-12.5	19-03-1240-6	03/15/19 10:04	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1240
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/15/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-26-2 (19-03-1240-1)						
Barium	33.8		0.524	mg/kg	EPA 6010B	EPA 3050B
Chromium	5.71		0.262	mg/kg	EPA 6010B	EPA 3050B
Cobalt	2.46		0.262	mg/kg	EPA 6010B	EPA 3050B
Copper	2.32		0.524	mg/kg	EPA 6010B	EPA 3050B
Nickel	2.02		0.262	mg/kg	EPA 6010B	EPA 3050B
Vanadium	13.5		0.262	mg/kg	EPA 6010B	EPA 3050B
Zinc	9.29		1.05	mg/kg	EPA 6010B	EPA 3050B
B-26-5 (19-03-1240-2)						
C19-C20	1.5	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C21-C22	2.2	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	4.1	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
B-27-2 (19-03-1240-4)						
Arsenic	2.88		0.758	mg/kg	EPA 6010B	EPA 3050B
Barium	117		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.547		0.253	mg/kg	EPA 6010B	EPA 3050B
Chromium	7.25		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	3.62		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	5.32		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	4.27		0.505	mg/kg	EPA 6010B	EPA 3050B
Nickel	4.38		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	15.2		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	23.3		1.01	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0959		0.0794	mg/kg	EPA 7471A	EPA 7471A Total
Chrysene	0.010		0.0099	mg/kg	EPA 8270C SIM PAHs	EPA 3545
B-27-5 (19-03-1240-5)						
C4-C5	0.093		0.086	mg/kg	EPA 8015B (M)	EPA 5035
C8	0.031	J	0.028*	mg/kg	EPA 8015B (M)	EPA 5035
C9-C10	0.12		0.086	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.32		0.086	mg/kg	EPA 8015B (M)	EPA 5035
C21-C22	3.0	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C23-C24	6.3		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	7.3		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	10		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	3.6	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B
Benzene	1.1		0.79	ug/kg	EPA 8260B	EPA 5035

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* MDL is shown

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1240
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/15/19
Attn:	Alex Santini		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-27-12.5 (19-03-1240-6)						
C4-C5	0.36		0.095	mg/kg	EPA 8015B (M)	EPA 5035
C6	0.11		0.095	mg/kg	EPA 8015B (M)	EPA 5035
C7	0.092	J	0.030*	mg/kg	EPA 8015B (M)	EPA 5035
C8	0.065	J	0.031*	mg/kg	EPA 8015B (M)	EPA 5035
C9-C10	0.060	J	0.034*	mg/kg	EPA 8015B (M)	EPA 5035
GRO (C4-C12) Total	0.71		0.095	mg/kg	EPA 8015B (M)	EPA 5035
C13-C22 TPH Diesel Range	1.6	J	1.3*	mg/kg	EPA 8015B (M)	EPA 3550B
Benzene	2.0		0.94	ug/kg	EPA 8260B	EPA 5035
Toluene	1.5		0.94	ug/kg	EPA 8260B	EPA 5035

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-5	**19-03-1240-2-A**	**03/15/19 10:45**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 22:06**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.1	1.3	1.00	
C15-C16	ND	5.1	1.3	1.00	
C17-C18	ND	5.1	1.3	1.00	
C19-C20	1.5	5.1	1.3	1.00	J
C21-C22	2.2	5.1	1.3	1.00	J
C23-C24	ND	5.1	1.3	1.00	
C25-C26	ND	5.1	1.3	1.00	
C27-C28	ND	5.1	1.3	1.00	
C13-C22 TPH Diesel Range	4.1	5.1	1.3	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	68-140	

B-26-10	19-03-1240-3-A	03/15/19 11:00	Solid	GC 50	03/19/19	03/19/19 22:27	190319B01C

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.3	1.3	1.00	
C15-C16	ND	5.3	1.3	1.00	
C17-C18	ND	5.3	1.3	1.00	
C19-C20	ND	5.3	1.3	1.00	
C21-C22	ND	5.3	1.3	1.00	
C23-C24	ND	5.3	1.3	1.00	
C25-C26	ND	5.3	1.3	1.00	
C27-C28	ND	5.3	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.3	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-5	**19-03-1240-5-A**	**03/15/19 08:47**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 22:47**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	4.9	1.2	1.00	
C15-C16	ND	4.9	1.2	1.00	
C17-C18	ND	4.9	1.2	1.00	
C19-C20	ND	4.9	1.2	1.00	
C21-C22	3.0	4.9	1.2	1.00	J
C23-C24	6.3	4.9	1.2	1.00	
C25-C26	7.3	4.9	1.2	1.00	
C27-C28	10	4.9	1.2	1.00	
C13-C22 TPH Diesel Range	3.6	4.9	1.2	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-12.5	**19-03-1240-6-A**	**03/15/19 10:04**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 23:06**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.1	1.3	1.00	
C15-C16	ND	5.1	1.3	1.00	
C17-C18	ND	5.1	1.3	1.00	
C19-C20	ND	5.1	1.3	1.00	
C21-C22	ND	5.1	1.3	1.00	
C23-C24	ND	5.1	1.3	1.00	
C25-C26	ND	5.1	1.3	1.00	
C27-C28	ND	5.1	1.3	1.00	
C13-C22 TPH Diesel Range	1.6	5.1	1.3	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	108	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-564**	**N/A**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 17:26**	**190319B01C**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	103	68-140	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-5	**19-03-1240-2-F**	**03/15/19 10:45**	**Solid**	**GC 4**	**03/15/19**	**03/21/19 10:32**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.11	0.063	1.00	
C6	ND	0.11	0.033	1.00	
C7	ND	0.11	0.035	1.00	
C8	ND	0.11	0.036	1.00	
C9-C10	ND	0.11	0.040	1.00	
C11-C12	ND	0.11	0.034	1.00	
GRO (C4-C12) Total	ND	0.11	0.063	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	92	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-10	**19-03-1240-3-F**	**03/15/19 11:00**	**Solid**	**GC 4**	**03/15/19**	**03/21/19 16:02**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.079	0.046	1.00	
C6	ND	0.079	0.024	1.00	
C7	ND	0.079	0.025	1.00	
C8	ND	0.079	0.026	1.00	
C9-C10	ND	0.079	0.029	1.00	
C11-C12	ND	0.079	0.025	1.00	
GRO (C4-C12) Total	ND	0.079	0.046	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	102	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-5	**19-03-1240-5-F**	**03/15/19 08:47**	**Solid**	**GC 4**	**03/15/19**	**03/21/19 16:36**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	0.093	0.086	0.050	1.00	
C6	ND	0.086	0.026	1.00	
C7	ND	0.086	0.027	1.00	
C8	0.031	0.086	0.028	1.00	J
C9-C10	0.12	0.086	0.031	1.00	
C11-C12	ND	0.086	0.027	1.00	
GRO (C4-C12) Total	0.32	0.086	0.050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-12.5	**19-03-1240-6-F**	**03/15/19 10:04**	**Solid**	**GC 4**	**03/15/19**	**03/21/19 17:10**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	0.36	0.095	0.055	1.00	
C6	0.11	0.095	0.029	1.00	
C7	0.092	0.095	0.030	1.00	J
C8	0.065	0.095	0.031	1.00	J
C9-C10	0.060	0.095	0.034	1.00	J
C11-C12	ND	0.095	0.030	1.00	
GRO (C4-C12) Total	0.71	0.095	0.055	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	127	60-126	2,7

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-921**	**N/A**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 09:24**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-2	**19-03-1240-1-A**	**03/15/19 10:35**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:54**	**190321L09A**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.785	1.05	
Arsenic	ND	0.785	1.05	
Barium	33.8	0.524	1.05	
Beryllium	ND	0.262	1.05	
Cadmium	ND	0.524	1.05	
Chromium	5.71	0.262	1.05	
Cobalt	2.46	0.262	1.05	
Copper	2.32	0.524	1.05	
Lead	ND	0.524	1.05	
Molybdenum	ND	0.262	1.05	
Nickel	2.02	0.262	1.05	
Selenium	ND	0.785	1.05	
Silver	ND	0.262	1.05	
Thallium	ND	0.785	1.05	
Vanadium	13.5	0.262	1.05	
Zinc	9.29	1.05	1.05	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-2	**19-03-1240-4-A**	**03/15/19 08:31**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 21:42**	**190321L09A**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	2.88	0.758	1.01	
Barium	117	0.505	1.01	
Beryllium	0.547	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	7.25	0.253	1.01	
Cobalt	3.62	0.253	1.01	
Copper	5.32	0.505	1.01	
Lead	4.27	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	4.38	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	15.2	0.253	1.01	
Zinc	23.3	1.01	1.01	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27676**	**N/A**	**Solid**	**ICP 8300**	**03/21/19**	**03/25/19 12:52**	**190321L09A**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.750	1.00	
Arsenic	ND	0.750	1.00	
Barium	ND	0.500	1.00	
Beryllium	ND	0.250	1.00	
Cadmium	ND	0.500	1.00	
Chromium	ND	0.250	1.00	
Cobalt	ND	0.250	1.00	
Copper	ND	0.500	1.00	
Lead	ND	0.500	1.00	
Molybdenum	ND	0.250	1.00	
Nickel	ND	0.250	1.00	
Selenium	ND	0.750	1.00	
Silver	ND	0.250	1.00	
Thallium	ND	0.750	1.00	
Vanadium	ND	0.250	1.00	
Zinc	ND	1.00	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-2	**19-03-1240-1-A**	**03/15/19 10:35**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:13**	**190322L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-2	**19-03-1240-4-A**	**03/15/19 08:31**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:20**	**190322L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0959	0.0794	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4489**	**N/A**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:09**	**190322L03**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-2	**19-03-1240-1-A**	**03/15/19 10:35**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:40**	**190318L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	9.9	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	9.9	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	9.9	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	99	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	91	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-2	**19-03-1240-4-A**	**03/15/19 08:31**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 14:24**	**190318L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	83	24-168	
2,4,5,6-Tetrachloro-m-Xylene	74	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3121**	**N/A**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 08:43**	**190318L07**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	81	24-168	
2,4,5,6-Tetrachloro-m-Xylene	90	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-2	**19-03-1240-1-A**	**03/15/19 10:35**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 16:00**	**190318L08**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	84	24-168	
2,4,5,6-Tetrachloro-m-Xylene	82	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-2	**19-03-1240-4-A**	**03/15/19 08:31**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 16:18**	**190318L08**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	79	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-535-5130**	**N/A**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 10:37**	**190318L08**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	100	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-2	**19-03-1240-1-a**	**03/15/19 10:35**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 17:29**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.0099	1.00	
2-Methylnaphthalene	ND	0.0099	1.00	
1-Methylnaphthalene	ND	0.0099	1.00	
Acenaphthylene	ND	0.0099	1.00	
Acenaphthene	ND	0.0099	1.00	
Fluorene	ND	0.0099	1.00	
Phenanthrene	ND	0.0099	1.00	
Anthracene	ND	0.0099	1.00	
Fluoranthene	ND	0.0099	1.00	
Pyrene	ND	0.0099	1.00	
Benzo (a) Anthracene	ND	0.0099	1.00	
Chrysene	ND	0.0099	1.00	
Benzo (k) Fluoranthene	ND	0.0099	1.00	
Benzo (b) Fluoranthene	ND	0.0099	1.00	
Benzo (a) Pyrene	ND	0.0099	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.0099	1.00	
Dibenz (a,h) Anthracene	ND	0.0099	1.00	
Benzo (g,h,i) Perylene	ND	0.0099	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	13-127	
Nitrobenzene-d5	83	17-137	
p-Terphenyl-d14	91	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-2	**19-03-1240-4-a**	**03/15/19 08:31**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 17:48**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.0099	1.00	
2-Methylnaphthalene	ND	0.0099	1.00	
1-Methylnaphthalene	ND	0.0099	1.00	
Acenaphthylene	ND	0.0099	1.00	
Acenaphthene	ND	0.0099	1.00	
Fluorene	ND	0.0099	1.00	
Phenanthrene	ND	0.0099	1.00	
Anthracene	ND	0.0099	1.00	
Fluoranthene	ND	0.0099	1.00	
Pyrene	ND	0.0099	1.00	
Benzo (a) Anthracene	ND	0.0099	1.00	
Chrysene	0.010	0.0099	1.00	
Benzo (k) Fluoranthene	ND	0.0099	1.00	
Benzo (b) Fluoranthene	ND	0.0099	1.00	
Benzo (a) Pyrene	ND	0.0099	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.0099	1.00	
Dibenz (a,h) Anthracene	ND	0.0099	1.00	
Benzo (g,h,i) Perylene	ND	0.0099	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	86	13-127	
Nitrobenzene-d5	75	17-137	
p-Terphenyl-d14	95	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-494**	**N/A**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:32**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	13-127	
Nitrobenzene-d5	84	17-137	
p-Terphenyl-d14	93	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-5	**19-03-1240-2-C**	**03/15/19 10:45**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/21/19 13:44**	**190321L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	54	1.00	
Benzene	ND	1.1	1.00	
Bromobenzene	ND	1.1	1.00	
Bromochloromethane	ND	2.2	1.00	
Bromodichloromethane	ND	1.1	1.00	
Bromoform	ND	5.4	1.00	
Bromomethane	ND	22	1.00	
2-Butanone	ND	22	1.00	
n-Butylbenzene	ND	1.1	1.00	
sec-Butylbenzene	ND	1.1	1.00	
tert-Butylbenzene	ND	1.1	1.00	
Carbon Disulfide	ND	11	1.00	
Carbon Tetrachloride	ND	1.1	1.00	
Chlorobenzene	ND	1.1	1.00	
Chloroethane	ND	2.2	1.00	
Chloroform	ND	1.1	1.00	
Chloromethane	ND	22	1.00	
2-Chlorotoluene	ND	1.1	1.00	
4-Chlorotoluene	ND	1.1	1.00	
Dibromochloromethane	ND	2.2	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.4	1.00	
1,2-Dibromoethane	ND	1.1	1.00	
Dibromomethane	ND	1.1	1.00	
1,2-Dichlorobenzene	ND	1.1	1.00	
1,3-Dichlorobenzene	ND	1.1	1.00	
1,4-Dichlorobenzene	ND	1.1	1.00	
Dichlorodifluoromethane	ND	2.2	1.00	
1,1-Dichloroethane	ND	1.1	1.00	
1,2-Dichloroethane	ND	1.1	1.00	
1,1-Dichloroethene	ND	1.1	1.00	
c-1,2-Dichloroethene	ND	1.1	1.00	
t-1,2-Dichloroethene	ND	1.1	1.00	
1,2-Dichloropropane	ND	1.1	1.00	
1,3-Dichloropropane	ND	1.1	1.00	
2,2-Dichloropropane	ND	5.4	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.2	1.00	
c-1,3-Dichloropropene	ND	1.1	1.00	
t-1,3-Dichloropropene	ND	2.2	1.00	
Ethylbenzene	ND	1.1	1.00	
2-Hexanone	ND	22	1.00	
Isopropylbenzene	ND	1.1	1.00	
p-Isopropyltoluene	ND	1.1	1.00	
Methylene Chloride	ND	11	1.00	
4-Methyl-2-Pentanone	ND	22	1.00	
Naphthalene	ND	11	1.00	
n-Propylbenzene	ND	2.2	1.00	
Styrene	ND	1.1	1.00	
1,1,1,2-Tetrachloroethane	ND	1.1	1.00	
1,1,2,2-Tetrachloroethane	ND	2.2	1.00	
Tetrachloroethene	ND	1.1	1.00	
Toluene	ND	1.1	1.00	
1,2,3-Trichlorobenzene	ND	2.2	1.00	
1,2,4-Trichlorobenzene	ND	2.2	1.00	
1,1,1-Trichloroethane	ND	1.1	1.00	
1,1,2-Trichloroethane	ND	1.1	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	11	1.00	
Trichloroethene	ND	2.2	1.00	
Trichlorofluoromethane	ND	11	1.00	
1,2,3-Trichloropropane	ND	2.2	1.00	
1,2,4-Trimethylbenzene	ND	2.2	1.00	
1,3,5-Trimethylbenzene	ND	2.2	1.00	
Vinyl Acetate	ND	11	1.00	
Vinyl Chloride	ND	1.1	1.00	
p/m-Xylene	ND	2.2	1.00	
o-Xylene	ND	1.1	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.2	1.00	
Tert-Butyl Alcohol (TBA)	ND	22	1.00	
Diisopropyl Ether (DIPE)	ND	1.1	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.1	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.1	1.00	
Ethanol	ND	540	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	79-133	
1,2-Dichloroethane-d4	113	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-26-10	**19-03-1240-3-C**	**03/15/19 11:00**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/21/19 14:12**	**190321L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	0.99	1.00	
Bromobenzene	ND	0.99	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	0.99	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	0.99	1.00	
sec-Butylbenzene	ND	0.99	1.00	
tert-Butylbenzene	ND	0.99	1.00	
Carbon Disulfide	ND	9.9	1.00	
Carbon Tetrachloride	ND	0.99	1.00	
Chlorobenzene	ND	0.99	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	0.99	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	0.99	1.00	
4-Chlorotoluene	ND	0.99	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.99	1.00	
Dibromomethane	ND	0.99	1.00	
1,2-Dichlorobenzene	ND	0.99	1.00	
1,3-Dichlorobenzene	ND	0.99	1.00	
1,4-Dichlorobenzene	ND	0.99	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	0.99	1.00	
1,2-Dichloroethane	ND	0.99	1.00	
1,1-Dichloroethene	ND	0.99	1.00	
c-1,2-Dichloroethene	ND	0.99	1.00	
t-1,2-Dichloroethene	ND	0.99	1.00	
1,2-Dichloropropane	ND	0.99	1.00	
1,3-Dichloropropane	ND	0.99	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	0.99	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	0.99	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	0.99	1.00	
p-Isopropyltoluene	ND	0.99	1.00	
Methylene Chloride	ND	9.9	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	9.9	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	0.99	1.00	
1,1,1,2-Tetrachloroethane	ND	0.99	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	0.99	1.00	
Toluene	ND	0.99	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	0.99	1.00	
1,1,2-Trichloroethane	ND	0.99	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.9	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	9.9	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	9.9	1.00	
Vinyl Chloride	ND	0.99	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	0.99	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	0.99	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.99	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.99	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	114	71-155	
Toluene-d8	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-5	**19-03-1240-5-C**	**03/15/19 08:47**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/21/19 14:41**	**190321L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	40	1.00	
Benzene	1.1	0.79	1.00	
Bromobenzene	ND	0.79	1.00	
Bromochloromethane	ND	1.6	1.00	
Bromodichloromethane	ND	0.79	1.00	
Bromoform	ND	4.0	1.00	
Bromomethane	ND	16	1.00	
2-Butanone	ND	16	1.00	
n-Butylbenzene	ND	0.79	1.00	
sec-Butylbenzene	ND	0.79	1.00	
tert-Butylbenzene	ND	0.79	1.00	
Carbon Disulfide	ND	7.9	1.00	
Carbon Tetrachloride	ND	0.79	1.00	
Chlorobenzene	ND	0.79	1.00	
Chloroethane	ND	1.6	1.00	
Chloroform	ND	0.79	1.00	
Chloromethane	ND	16	1.00	
2-Chlorotoluene	ND	0.79	1.00	
4-Chlorotoluene	ND	0.79	1.00	
Dibromochloromethane	ND	1.6	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.00	
1,2-Dibromoethane	ND	0.79	1.00	
Dibromomethane	ND	0.79	1.00	
1,2-Dichlorobenzene	ND	0.79	1.00	
1,3-Dichlorobenzene	ND	0.79	1.00	
1,4-Dichlorobenzene	ND	0.79	1.00	
Dichlorodifluoromethane	ND	1.6	1.00	
1,1-Dichloroethane	ND	0.79	1.00	
1,2-Dichloroethane	ND	0.79	1.00	
1,1-Dichloroethene	ND	0.79	1.00	
c-1,2-Dichloroethene	ND	0.79	1.00	
t-1,2-Dichloroethene	ND	0.79	1.00	
1,2-Dichloropropane	ND	0.79	1.00	
1,3-Dichloropropane	ND	0.79	1.00	
2,2-Dichloropropane	ND	4.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.6	1.00	
c-1,3-Dichloropropene	ND	0.79	1.00	
t-1,3-Dichloropropene	ND	1.6	1.00	
Ethylbenzene	ND	0.79	1.00	
2-Hexanone	ND	16	1.00	
Isopropylbenzene	ND	0.79	1.00	
p-Isopropyltoluene	ND	0.79	1.00	
Methylene Chloride	ND	7.9	1.00	
4-Methyl-2-Pentanone	ND	16	1.00	
Naphthalene	ND	7.9	1.00	
n-Propylbenzene	ND	1.6	1.00	
Styrene	ND	0.79	1.00	
1,1,1,2-Tetrachloroethane	ND	0.79	1.00	
1,1,2,2-Tetrachloroethane	ND	1.6	1.00	
Tetrachloroethene	ND	0.79	1.00	
Toluene	ND	0.79	1.00	
1,2,3-Trichlorobenzene	ND	1.6	1.00	
1,2,4-Trichlorobenzene	ND	1.6	1.00	
1,1,1-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloroethane	ND	0.79	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.9	1.00	
Trichloroethene	ND	1.6	1.00	
Trichlorofluoromethane	ND	7.9	1.00	
1,2,3-Trichloropropane	ND	1.6	1.00	
1,2,4-Trimethylbenzene	ND	1.6	1.00	
1,3,5-Trimethylbenzene	ND	1.6	1.00	
Vinyl Acetate	ND	7.9	1.00	
Vinyl Chloride	ND	0.79	1.00	
p/m-Xylene	ND	1.6	1.00	
o-Xylene	ND	0.79	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.6	1.00	
Tert-Butyl Alcohol (TBA)	ND	16	1.00	
Diisopropyl Ether (DIPE)	ND	0.79	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.79	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.79	1.00	
Ethanol	ND	400	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	117	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-27-12.5	**19-03-1240-6-C**	**03/15/19 10:04**	**Solid**	**GC/MS QQ**	**03/15/19**	**03/21/19 15:09**	**190321L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	2.0	0.94	1.00	
Bromobenzene	ND	0.94	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.94	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.94	1.00	
sec-Butylbenzene	ND	0.94	1.00	
tert-Butylbenzene	ND	0.94	1.00	
Carbon Disulfide	ND	9.4	1.00	
Carbon Tetrachloride	ND	0.94	1.00	
Chlorobenzene	ND	0.94	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.94	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.94	1.00	
4-Chlorotoluene	ND	0.94	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.94	1.00	
Dibromomethane	ND	0.94	1.00	
1,2-Dichlorobenzene	ND	0.94	1.00	
1,3-Dichlorobenzene	ND	0.94	1.00	
1,4-Dichlorobenzene	ND	0.94	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.94	1.00	
1,2-Dichloroethane	ND	0.94	1.00	
1,1-Dichloroethene	ND	0.94	1.00	
c-1,2-Dichloroethene	ND	0.94	1.00	
t-1,2-Dichloroethene	ND	0.94	1.00	
1,2-Dichloropropane	ND	0.94	1.00	
1,3-Dichloropropane	ND	0.94	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 11 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.94	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.94	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.94	1.00	
p-Isopropyltoluene	ND	0.94	1.00	
Methylene Chloride	ND	9.4	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.4	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.94	1.00	
1,1,1,2-Tetrachloroethane	ND	0.94	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.94	1.00	
Toluene	1.5	0.94	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloroethane	ND	0.94	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.4	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.4	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.4	1.00	
Vinyl Chloride	ND	0.94	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.94	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.94	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.94	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.94	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	113	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30832**	**N/A**	**Solid**	**GC/MS QQ**	**03/21/19**	**03/21/19 11:21**	**190321L015**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/15/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1240
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 14 of 15

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	101	71-155	
Toluene-d8	100	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1053-2	**Sample**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:46**	**190319S01**
19-03-1053-2	**Matrix Spike**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:06**	**190319S01**
19-03-1053-2	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 18:26**	**190319S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	422.7	106	416.0	104	80-120	2	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 3050B
Method: EPA 6010B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-26-2	**Sample**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:54**	**190321S09**
B-26-2	**Matrix Spike**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:50**	**190321S09**
B-26-2	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:52**	**190321S09**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	13.30	53	13.45	54	50-115	1	0-20	
Arsenic	ND	25.00	26.32	105	28.77	115	75-125	9	0-20	
Barium	33.83	25.00	67.94	136	82.88	196	75-125	20	0-20	3
Beryllium	ND	25.00	26.79	107	30.95	124	75-125	14	0-20	
Cadmium	ND	25.00	27.52	110	30.99	124	75-125	12	0-20	
Chromium	5.709	25.00	35.08	117	41.54	143	75-125	17	0-20	3
Cobalt	2.455	25.00	31.02	114	34.96	130	75-125	12	0-20	3
Copper	2.324	25.00	30.77	114	36.84	138	75-125	18	0-20	3
Lead	ND	25.00	27.21	109	30.36	121	75-125	11	0-20	
Molybdenum	ND	25.00	26.11	104	28.99	116	75-125	10	0-20	
Nickel	2.023	25.00	29.15	109	32.70	123	75-125	11	0-20	
Selenium	ND	25.00	24.69	99	25.98	104	75-125	5	0-20	
Silver	ND	12.50	13.36	107	15.64	125	75-125	16	0-20	
Thallium	ND	25.00	25.94	104	29.34	117	75-125	12	0-20	
Vanadium	13.49	25.00	44.52	124	53.15	159	75-125	18	0-20	3
Zinc	9.289	25.00	37.25	112	42.91	134	75-125	14	0-20	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-26-2	**Sample**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:13**	**190322S03**
B-26-2	**Matrix Spike**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:15**	**190322S03**
B-26-2	**Matrix Spike Duplicate**	**Solid**	**Mercury 08**	**03/22/19**	**03/22/19 17:18**	**190322S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.6979	84	0.7334	88	71-137	5	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-26-2	**Sample**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:40**	**190318S07**
B-26-2	**Matrix Spike**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:11**	**190318S07**
B-26-2	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 09:26**	**190318S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	21.24	85	20.36	81	50-135	4	0-25	
Alpha-BHC	ND	25.00	21.26	85	20.50	82	50-135	4	0-25	
Beta-BHC	ND	25.00	21.67	87	20.87	83	50-135	4	0-25	
4,4'-DDD	ND	25.00	22.93	92	22.59	90	50-135	2	0-25	
4,4'-DDE	ND	25.00	22.47	90	22.01	88	50-135	2	0-25	
4,4'-DDT	ND	25.00	22.89	92	22.71	91	50-135	1	0-25	
Delta-BHC	ND	25.00	20.17	81	19.28	77	50-135	5	0-25	
Dieldrin	ND	25.00	22.07	88	21.45	86	50-135	3	0-25	
Endosulfan I	ND	25.00	22.17	89	21.30	85	50-135	4	0-25	
Endosulfan II	ND	25.00	22.79	91	22.28	89	50-135	2	0-25	
Endosulfan Sulfate	ND	25.00	22.79	91	22.50	90	50-135	1	0-25	
Endrin	ND	25.00	21.87	87	21.29	85	50-135	3	0-25	
Endrin Aldehyde	ND	25.00	19.16	77	18.62	74	50-135	3	0-25	
Gamma-BHC	ND	25.00	21.41	86	20.64	83	50-135	4	0-25	
Heptachlor	ND	25.00	22.20	89	21.55	86	50-135	3	0-25	
Heptachlor Epoxide	ND	25.00	21.29	85	20.74	83	50-135	3	0-25	
Methoxychlor	ND	25.00	22.33	89	22.31	89	50-135	0	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0889-1	**Sample**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:48**	**190318S08**
19-03-0889-1	**Matrix Spike**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:13**	**190318S08**
19-03-0889-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 11:31**	**190318S08**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	74.00	74	74.00	74	50-135	0	0-20	
Aroclor-1260	ND	100.0	84.00	84	88.00	88	50-135	5	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-26-2	**Sample**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 17:29**	**190320S06**
B-26-2	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:11**	**190320S06**
B-26-2	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:31**	**190320S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.09354	94	0.07960	80	20-150	16	0-33	
2-Methylnaphthalene	ND	0.1000	0.09502	95	0.08020	80	29-137	17	0-31	
1-Methylnaphthalene	ND	0.1000	0.08849	88	0.07432	74	34-136	17	0-29	
Acenaphthylene	ND	0.1000	0.09257	93	0.07905	79	29-131	16	0-32	
Acenaphthene	ND	0.1000	0.08528	85	0.07227	72	29-137	17	0-28	
Fluorene	ND	0.1000	0.08765	88	0.07574	76	36-132	15	0-27	
Phenanthrene	ND	0.1000	0.08709	87	0.07717	77	20-144	12	0-27	
Anthracene	ND	0.1000	0.09258	93	0.08180	82	26-134	12	0-27	
Fluoranthene	ND	0.1000	0.08883	89	0.07966	80	20-151	11	0-26	
Pyrene	ND	0.1000	0.09075	91	0.08363	84	20-150	8	0-32	
Benzo (a) Anthracene	ND	0.1000	0.09674	97	0.08717	87	24-150	10	0-24	
Chrysene	ND	0.1000	0.09448	94	0.08676	87	25-145	9	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.09287	93	0.08330	83	28-148	11	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.09680	97	0.08500	85	21-153	13	0-26	
Benzo (a) Pyrene	ND	0.1000	0.1171	117	0.1061	106	29-149	10	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.1030	103	0.09615	96	20-154	7	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.1072	107	0.1005	101	20-132	6	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.1011	101	0.09537	95	20-148	6	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-564	**LCS**	**Solid**	**GC 50**	**03/19/19**	**03/19/19 17:46**	**190319B01C**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	391.9	98	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-921	**LCS**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 07:43**	**190321L034**
099-13-043-921	**LCSD**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 08:17**	**190321L034**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	2.067	103	1.973	99	55-139	5	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 3 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27676	**LCS**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:45**	**190321L09A**
097-01-002-27676	**LCSD**	**Solid**	**ICP 8300**	**03/21/19**	**03/22/19 16:48**	**190321L09A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	24.78	99	24.95	100	80-120	73-127	1	0-20	
Arsenic	25.00	23.35	93	24.03	96	80-120	73-127	3	0-20	
Barium	25.00	25.32	101	25.21	101	80-120	73-127	0	0-20	
Beryllium	25.00	22.40	90	22.41	90	80-120	73-127	0	0-20	
Cadmium	25.00	24.52	98	24.45	98	80-120	73-127	0	0-20	
Chromium	25.00	24.78	99	24.72	99	80-120	73-127	0	0-20	
Cobalt	25.00	26.60	106	26.37	105	80-120	73-127	1	0-20	
Copper	25.00	24.82	99	24.81	99	80-120	73-127	0	0-20	
Lead	25.00	25.64	103	25.77	103	80-120	73-127	0	0-20	
Molybdenum	25.00	23.07	92	23.26	93	80-120	73-127	1	0-20	
Nickel	25.00	24.96	100	24.96	100	80-120	73-127	0	0-20	
Selenium	25.00	22.28	89	22.28	89	80-120	73-127	0	0-20	
Silver	12.50	11.72	94	11.73	94	80-120	73-127	0	0-20	
Thallium	25.00	24.02	96	23.34	93	80-120	73-127	3	0-20	
Vanadium	25.00	23.67	95	23.47	94	80-120	73-127	1	0-20	
Zinc	25.00	24.47	98	24.64	99	80-120	73-127	1	0-20	

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

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4489	**LCS**	**Solid**	**Mercury 08**	**01/01/95**	**03/22/19 18:08**	**190322L03**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7169	86	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3121	**LCS**	**Solid**	**GC 51**	**03/18/19**	**03/20/19 08:57**	**190318L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	19.32	77	50-135	36-149	
Alpha-BHC	25.00	22.80	91	50-135	36-149	
Beta-BHC	25.00	22.10	88	50-135	36-149	
4,4'-DDD	25.00	22.94	92	50-135	36-149	
4,4'-DDE	25.00	22.71	91	50-135	36-149	
4,4'-DDT	25.00	23.48	94	50-135	36-149	
Delta-BHC	25.00	22.17	89	50-135	36-149	
Dieldrin	25.00	22.86	91	50-135	36-149	
Endosulfan I	25.00	23.58	94	50-135	36-149	
Endosulfan II	25.00	23.58	94	50-135	36-149	
Endosulfan Sulfate	25.00	23.76	95	50-135	36-149	
Endrin	25.00	21.86	87	50-135	36-149	
Endrin Aldehyde	25.00	20.23	81	50-135	36-149	
Gamma-BHC	25.00	22.84	91	50-135	36-149	
Heptachlor	25.00	23.47	94	50-135	36-149	
Heptachlor Epoxide	25.00	22.57	90	50-135	36-149	
Methoxychlor	25.00	22.67	91	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5130	**LCS**	**Solid**	**GC 58**	**03/18/19**	**03/19/19 10:55**	**190318L08**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	96.00	96	50-135	
Aroclor-1260	100.0	92.00	92	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/15/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1240
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-494	**LCS**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:52**	**190320L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.08638	86	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08730	87	50-127	37-140	
1-Methylnaphthalene	0.1000	0.08506	85	54-132	41-145	
Acenaphthylene	0.1000	0.08934	89	50-123	38-135	
Acenaphthene	0.1000	0.07840	78	53-125	41-137	
Fluorene	0.1000	0.08181	82	55-127	43-139	
Phenanthrene	0.1000	0.08132	81	50-122	38-134	
Anthracene	0.1000	0.08767	88	50-132	36-146	
Fluoranthene	0.1000	0.08383	84	55-127	43-139	
Pyrene	0.1000	0.08053	81	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.08688	87	50-133	36-147	
Chrysene	0.1000	0.08556	86	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.08566	86	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.08716	87	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1064	106	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.09170	92	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.09522	95	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.09032	90	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/15/19
Work Order: 19-03-1240
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30832	**LCS**	**Solid**	**GC/MS QQ**	**03/21/19**	**03/21/19 09:40**	**190321L015**
095-01-025-30832	**LCSD**	**Solid**	**GC/MS QQ**	**03/21/19**	**03/21/19 10:08**	**190321L015**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	52.73	105	54.60	109	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	54.68	109	55.60	111	65-137	53-149	2	0-20	
Chlorobenzene	50.00	52.96	106	55.02	110	80-120	73-127	4	0-20	
1,2-Dibromoethane	50.00	50.51	101	54.27	109	80-120	73-127	7	0-20	
1,2-Dichlorobenzene	50.00	53.88	108	56.69	113	80-120	73-127	5	0-20	
1,2-Dichloroethane	50.00	51.18	102	53.42	107	80-120	73-127	4	0-20	
1,1-Dichloroethene	50.00	57.56	115	59.53	119	68-128	58-138	3	0-20	
Ethylbenzene	50.00	55.79	112	57.57	115	80-120	73-127	3	0-20	
Toluene	50.00	54.63	109	56.47	113	80-120	73-127	3	0-20	
Trichloroethene	50.00	54.62	109	56.52	113	80-120	73-127	3	0-20	
Vinyl Chloride	50.00	52.37	105	53.70	107	67-127	57-137	3	0-20	
p/m-Xylene	100.0	110.6	111	113.0	113	75-125	67-133	2	0-25	
o-Xylene	50.00	56.40	113	58.80	118	75-125	67-133	4	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.12	86	45.27	91	70-124	61-133	5	0-20	
Tert-Butyl Alcohol (TBA)	250.0	287.2	115	293.9	118	73-121	65-129	2	0-20	
Diisopropyl Ether (DIPE)	50.00	51.92	104	54.32	109	69-129	59-139	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	48.01	96	50.33	101	70-124	61-133	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	51.19	102	54.45	109	74-122	66-130	6	0-20	
Ethanol	500.0	398.5	80	390.0	78	51-135	37-149	2	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-03-1240 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	1080	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 08	1
EPA 8015B (M)	EPA 5035	715	GC 4	2
EPA 8015B (M)	EPA 3550B	1028	GC 50	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS AAA	1

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Glossary of Terms and Qualifiers

Work Order: 19-03-1240 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY: **19-03-1240**

DATE: 3/15/19

PAGE: 1 OF 1

LABORATORY CLIENT: Group Delta Consultants, Inc.

ADDRESS: 9245 Activity Rd, Suite 103

CITY: San Diego STATE: CA ZIP: 92126

TEL: 858-536-1000 E-MAIL: alexandres@groupdelta.com

CLIENT PROJECT NAME / NUMBER: SDSU Mission Valley

P.O. NO.: SD605

PROJECT CONTACT: Alex Santini

SAMPLER(S): (PRINT) Samuel Narveson, Allison Bieda

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:
Test for Title 22 Metals by STLC and/or TCLP if TTLC concentration exceeds 10x the STLC limit.

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ 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
1	B-26-2	3/15/19	10:35	Soil	1	X												X	X	X	X	
2	B-26-5	3/15/19	10:45	"	6	X	X		X	X			X	X								
3	B-26-10	3/15/19	11:00	"	6	X	X		X	X			X	X								
4	B-27-2	"	8:31	"	1	X												X	X	X	X	
5	B-27-5	"	8:47	"	6	X	X		X	X			X	X								
6	B-27-125	"	10:04	"	6	X	X		X	X			X	X								

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	EC	03/15/19	1345
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		3/15/19	1800
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WORK ORDER NUMBER: 19-03-1240

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/15/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 778

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☑ ~~2~~ (5),(6) 2oz PJ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 778

Reviewed by: 671

(5),(6) 2oz PJ + 5 - Terracores

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WORK ORDER NUMBER: 19-03-1368

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 03/27/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Contents

Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-1368

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Work Order Narrative

Work Order: 19-03-1368 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/18/19. They were assigned to Work Order 19-03-1368.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1368
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/18/19 18:27
		Number of Containers:	39
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-31-2	19-03-1368-1	03/16/19 08:10	1	Solid
B-31-5	19-03-1368-2	03/16/19 08:15	6	Solid
B-31-10	19-03-1368-3	03/16/19 08:30	6	Solid
B-30-2.5	19-03-1368-4	03/16/19 13:35	1	Solid
B-30-5	19-03-1368-5	03/16/19 13:50	6	Solid
B-30-10	19-03-1368-6	03/16/19 14:00	6	Solid
B-28-2	19-03-1368-7	03/16/19 13:50	1	Solid
B-28-5	19-03-1368-8	03/16/19 13:55	6	Solid
B-28-10	19-03-1368-9	03/16/19 14:00	6	Solid

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1368
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/18/19
Attn:	Alex Santini		

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-31-2 (19-03-1368-1)						
Arsenic	12.1		0.739	mg/kg	EPA 6010B	EPA 3050B
Barium	47.3		0.493	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.947		0.246	mg/kg	EPA 6010B	EPA 3050B
Chromium	4.51		0.246	mg/kg	EPA 6010B	EPA 3050B
Cobalt	4.29		0.246	mg/kg	EPA 6010B	EPA 3050B
Copper	5.46		0.493	mg/kg	EPA 6010B	EPA 3050B
Lead	6.43		0.493	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.16		0.246	mg/kg	EPA 6010B	EPA 3050B
Vanadium	11.2		0.246	mg/kg	EPA 6010B	EPA 3050B
Zinc	25.2		0.985	mg/kg	EPA 6010B	EPA 3050B
4,4'-DDE	6.5		5.0	ug/kg	EPA 8081A	EPA 3545
B-31-5 (19-03-1368-2)						
C23-C24	20	J	6.2*	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	40		25	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	78		25	mg/kg	EPA 8015B (M)	EPA 3550B
C13-C22 TPH Diesel Range	9.5	J	6.2*	mg/kg	EPA 8015B (M)	EPA 3550B
B-31-10 (19-03-1368-3)						
C23-C24	14	J	6.1*	mg/kg	EPA 8015B (M)	EPA 3550B
C25-C26	28		24	mg/kg	EPA 8015B (M)	EPA 3550B
C27-C28	53		24	mg/kg	EPA 8015B (M)	EPA 3550B
B-30-2.5 (19-03-1368-4)						
Arsenic	3.44		0.761	mg/kg	EPA 6010B	EPA 3050B
Barium	113		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.377		0.254	mg/kg	EPA 6010B	EPA 3050B
Chromium	6.44		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.09		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	9.13		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	3.54		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	1.08		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	10.2		0.254	mg/kg	EPA 6010B	EPA 3050B
Vanadium	19.0		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	22.8		1.02	mg/kg	EPA 6010B	EPA 3050B
B-30-10 (19-03-1368-6)						
C27-C28	4.5	J	1.2*	mg/kg	EPA 8015B (M)	EPA 3550B

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* MDL is shown

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-1368
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/18/19
Attn:	Alex Santini		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-28-2 (19-03-1368-7)						
Arsenic	2.83		0.758	mg/kg	EPA 6010B	EPA 3050B
Barium	116		0.505	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.668		0.253	mg/kg	EPA 6010B	EPA 3050B
Chromium	12.8		0.253	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.05		0.253	mg/kg	EPA 6010B	EPA 3050B
Copper	9.34		0.505	mg/kg	EPA 6010B	EPA 3050B
Lead	2.41		0.505	mg/kg	EPA 6010B	EPA 3050B
Nickel	5.70		0.253	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.5		0.253	mg/kg	EPA 6010B	EPA 3050B
Zinc	30.3		1.01	mg/kg	EPA 6010B	EPA 3050B

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

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* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-5	**19-03-1368-2-A**	**03/16/19 08:15**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 14:12**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	25	6.2	5.00	
C15-C16	ND	25	6.2	5.00	
C17-C18	ND	25	6.2	5.00	
C19-C20	ND	25	6.2	5.00	
C21-C22	ND	25	6.2	5.00	
C23-C24	20	25	6.2	5.00	J
C25-C26	40	25	6.2	5.00	
C27-C28	78	25	6.2	5.00	
C13-C22 TPH Diesel Range	9.5	25	6.2	5.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	70	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-10	**19-03-1368-3-A**	**03/16/19 08:30**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 14:32**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	24	6.1	5.00	
C15-C16	ND	24	6.1	5.00	
C17-C18	ND	24	6.1	5.00	
C19-C20	ND	24	6.1	5.00	
C21-C22	ND	24	6.1	5.00	
C23-C24	14	24	6.1	5.00	J
C25-C26	28	24	6.1	5.00	
C27-C28	53	24	6.1	5.00	
C13-C22 TPH Diesel Range	ND	24	6.1	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	71	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-5	**19-03-1368-5-A**	**03/16/19 13:50**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 14:52**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-10	**19-03-1368-6-A**	**03/16/19 14:00**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 15:12**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	4.9	1.2	1.00	
C15-C16	ND	4.9	1.2	1.00	
C17-C18	ND	4.9	1.2	1.00	
C19-C20	ND	4.9	1.2	1.00	
C21-C22	ND	4.9	1.2	1.00	
C23-C24	ND	4.9	1.2	1.00	
C25-C26	ND	4.9	1.2	1.00	
C27-C28	4.5	4.9	1.2	1.00	J
C13-C22 TPH Diesel Range	ND	4.9	1.2	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-5	**19-03-1368-8-A**	**03/16/19 13:55**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 15:33**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-10	**19-03-1368-9-A**	**03/16/19 14:00**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 15:52**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	87	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-582-565**	**N/A**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 11:32**	**190320B10A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	5.0	1.3	1.00	
C15-C16	ND	5.0	1.3	1.00	
C17-C18	ND	5.0	1.3	1.00	
C19-C20	ND	5.0	1.3	1.00	
C21-C22	ND	5.0	1.3	1.00	
C23-C24	ND	5.0	1.3	1.00	
C25-C26	ND	5.0	1.3	1.00	
C27-C28	ND	5.0	1.3	1.00	
C13-C22 TPH Diesel Range	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	90	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-5	**19-03-1368-2-F**	**03/16/19 08:15**	**Solid**	**GC 4**	**03/16/19**	**03/21/19 22:22**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.096	0.055	1.00	
C6	ND	0.096	0.029	1.00	
C7	ND	0.096	0.031	1.00	
C8	ND	0.096	0.032	1.00	
C9-C10	ND	0.096	0.035	1.00	
C11-C12	ND	0.096	0.030	1.00	
GRO (C4-C12) Total	ND	0.096	0.055	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	113	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-10	**19-03-1368-3-F**	**03/16/19 08:30**	**Solid**	**GC 4**	**03/16/19**	**03/21/19 22:56**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.083	0.048	1.00	
C6	ND	0.083	0.025	1.00	
C7	ND	0.083	0.026	1.00	
C8	ND	0.083	0.027	1.00	
C9-C10	ND	0.083	0.030	1.00	
C11-C12	ND	0.083	0.026	1.00	
GRO (C4-C12) Total	ND	0.083	0.048	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	106	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-5	**19-03-1368-5-F**	**03/16/19 13:50**	**Solid**	**GC 4**	**03/16/19**	**03/21/19 23:29**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.073	0.042	1.00	
C6	ND	0.073	0.022	1.00	
C7	ND	0.073	0.023	1.00	
C8	ND	0.073	0.024	1.00	
C9-C10	ND	0.073	0.027	1.00	
C11-C12	ND	0.073	0.023	1.00	
GRO (C4-C12) Total	ND	0.073	0.042	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-10	**19-03-1368-6-F**	**03/16/19 14:00**	**Solid**	**GC 4**	**03/16/19**	**03/22/19 00:03**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.098	0.057	1.00	
C6	ND	0.098	0.030	1.00	
C7	ND	0.098	0.031	1.00	
C8	ND	0.098	0.032	1.00	
C9-C10	ND	0.098	0.036	1.00	
C11-C12	ND	0.098	0.031	1.00	
GRO (C4-C12) Total	ND	0.098	0.057	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	104	60-126	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-5	**19-03-1368-8-F**	**03/16/19 13:55**	**Solid**	**GC 4**	**03/16/19**	**03/21/19 21:14**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.086	0.050	1.00	
C6	ND	0.086	0.026	1.00	
C7	ND	0.086	0.028	1.00	
C8	ND	0.086	0.029	1.00	
C9-C10	ND	0.086	0.031	1.00	
C11-C12	ND	0.086	0.027	1.00	
GRO (C4-C12) Total	ND	0.086	0.050	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	94	60-126	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-10	**19-03-1368-9-F**	**03/16/19 14:00**	**Solid**	**GC 4**	**03/16/19**	**03/21/19 21:48**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.089	0.051	1.00	
C6	ND	0.089	0.027	1.00	
C7	ND	0.089	0.028	1.00	
C8	ND	0.089	0.029	1.00	
C9-C10	ND	0.089	0.032	1.00	
C11-C12	ND	0.089	0.028	1.00	
GRO (C4-C12) Total	ND	0.089	0.051	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	108	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8015B (M)
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-043-921**	**N/A**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 09:24**	**190321L034**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	0.10	0.058	1.00	
C6	ND	0.10	0.030	1.00	
C7	ND	0.10	0.032	1.00	
C8	ND	0.10	0.033	1.00	
C9-C10	ND	0.10	0.036	1.00	
C11-C12	ND	0.10	0.032	1.00	
GRO (C4-C12) Total	ND	0.10	0.058	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	80	60-126	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-2	**19-03-1368-1-A**	**03/16/19 08:10**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 18:09**	**190322L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	12.1	0.739	0.985	
Barium	47.3	0.493	0.985	
Beryllium	0.947	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	4.51	0.246	0.985	
Cobalt	4.29	0.246	0.985	
Copper	5.46	0.493	0.985	
Lead	6.43	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	5.16	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	11.2	0.246	0.985	
Zinc	25.2	0.985	0.985	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-2.5	**19-03-1368-4-A**	**03/16/19 13:35**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 18:11**	**190322L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	3.44	0.761	1.02	
Barium	113	0.508	1.02	
Beryllium	0.377	0.254	1.02	
Cadmium	ND	0.508	1.02	
Chromium	6.44	0.254	1.02	
Cobalt	5.09	0.254	1.02	
Copper	9.13	0.508	1.02	
Lead	3.54	0.508	1.02	
Molybdenum	1.08	0.254	1.02	
Nickel	10.2	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	19.0	0.254	1.02	
Zinc	22.8	1.02	1.02	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-2	**19-03-1368-7-A**	**03/16/19 13:50**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 18:12**	**190322L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.758	1.01	
Arsenic	2.83	0.758	1.01	
Barium	116	0.505	1.01	
Beryllium	0.668	0.253	1.01	
Cadmium	ND	0.505	1.01	
Chromium	12.8	0.253	1.01	
Cobalt	6.05	0.253	1.01	
Copper	9.34	0.505	1.01	
Lead	2.41	0.505	1.01	
Molybdenum	ND	0.253	1.01	
Nickel	5.70	0.253	1.01	
Selenium	ND	0.758	1.01	
Silver	ND	0.253	1.01	
Thallium	ND	0.758	1.01	
Vanadium	34.5	0.253	1.01	
Zinc	30.3	1.01	1.01	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-27682**	**N/A**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 16:59**	**190322L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.739	0.985	
Arsenic	ND	0.739	0.985	
Barium	ND	0.493	0.985	
Beryllium	ND	0.246	0.985	
Cadmium	ND	0.493	0.985	
Chromium	ND	0.246	0.985	
Cobalt	ND	0.246	0.985	
Copper	ND	0.493	0.985	
Lead	ND	0.493	0.985	
Molybdenum	ND	0.246	0.985	
Nickel	ND	0.246	0.985	
Selenium	ND	0.739	0.985	
Silver	ND	0.246	0.985	
Thallium	ND	0.739	0.985	
Vanadium	ND	0.246	0.985	
Zinc	ND	0.985	0.985	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Project: SDSU Mission Valley / SD605

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 7471A Total
Method: EPA 7471A
Units: mg/kg

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-2	**19-03-1368-1-A**	**03/16/19 08:10**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 18:02**	**190325L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-2.5	**19-03-1368-4-A**	**03/16/19 13:35**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 18:05**	**190325L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0847	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-2	**19-03-1368-7-A**	**03/16/19 13:50**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 18:11**	**190325L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0862	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-4494**	**N/A**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 17:44**	**190325L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-2	**19-03-1368-1-A**	**03/16/19 08:10**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 16:18**	**190319L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	6.5	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	75	24-168	
2,4,5,6-Tetrachloro-m-Xylene	73	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-2.5	**19-03-1368-4-A**	**03/16/19 13:35**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 16:32**	**190319L10**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	100	1.00	
Alpha-BHC	ND	200	1.00	
Beta-BHC	ND	100	1.00	
Chlordane	ND	1000	1.00	
4,4'-DDD	ND	100	1.00	
4,4'-DDE	ND	100	1.00	
4,4'-DDT	ND	100	1.00	
Delta-BHC	ND	200	1.00	
Dieldrin	ND	100	1.00	
Endosulfan I	ND	100	1.00	
Endosulfan II	ND	100	1.00	
Endosulfan Sulfate	ND	100	1.00	
Endrin	ND	100	1.00	
Endrin Aldehyde	ND	100	1.00	
Endrin Ketone	ND	100	1.00	
Gamma-BHC	ND	100	1.00	
Heptachlor	ND	100	1.00	
Heptachlor Epoxide	ND	200	1.00	
Methoxychlor	ND	100	1.00	
Toxaphene	ND	2000	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	88	24-168	
2,4,5,6-Tetrachloro-m-Xylene	71	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-2	**19-03-1368-7-A**	**03/16/19 13:50**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 16:46**	**190319L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	75	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8081A
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-3122**	**N/A**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 15:07**	**190319L10**

Parameter	Result	RL	DF	Qualifiers
Aldrin	ND	5.0	1.00	
Alpha-BHC	ND	10	1.00	
Beta-BHC	ND	5.0	1.00	
Chlordane	ND	50	1.00	
4,4'-DDD	ND	5.0	1.00	
4,4'-DDE	ND	5.0	1.00	
4,4'-DDT	ND	5.0	1.00	
Delta-BHC	ND	10	1.00	
Dieldrin	ND	5.0	1.00	
Endosulfan I	ND	5.0	1.00	
Endosulfan II	ND	5.0	1.00	
Endosulfan Sulfate	ND	5.0	1.00	
Endrin	ND	5.0	1.00	
Endrin Aldehyde	ND	5.0	1.00	
Endrin Ketone	ND	5.0	1.00	
Gamma-BHC	ND	5.0	1.00	
Heptachlor	ND	5.0	1.00	
Heptachlor Epoxide	ND	10	1.00	
Methoxychlor	ND	5.0	1.00	
Toxaphene	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	74	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-2	**19-03-1368-1-A**	**03/16/19 08:10**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 14:50**	**190319L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	76	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

B-30-2.5	19-03-1368-4-A	03/16/19 13:35	Solid	GC 58	03/19/19	03/20/19 15:08	190319L11

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	1000	1.00	
Aroclor-1221	ND	1000	1.00	
Aroclor-1232	ND	1000	1.00	
Aroclor-1242	ND	1000	1.00	
Aroclor-1248	ND	1000	1.00	
Aroclor-1254	ND	1000	1.00	
Aroclor-1260	ND	1000	1.00	
Aroclor-1262	ND	1000	1.00	
Aroclor-1268	ND	1000	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	80	24-168	
2,4,5,6-Tetrachloro-m-Xylene	84	25-145	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-2	**19-03-1368-7-A**	**03/16/19 13:50**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 15:25**	**190319L11**

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	77	24-168	
2,4,5,6-Tetrachloro-m-Xylene	87	25-145	

Method Blank	099-12-535-5131	N/A	Solid	GC 58	03/19/19	03/20/19 11:50	190319L11

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	
Aroclor-1268	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	85	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-2	**19-03-1368-1-a**	**03/16/19 08:10**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 18:27**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	75	13-127	
Nitrobenzene-d5	63	17-137	
p-Terphenyl-d14	99	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-2.5	**19-03-1368-4-a**	**03/16/19 13:35**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 18:47**	**190320L06**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	1.0	5.00	
2-Methylnaphthalene	ND	1.0	5.00	
1-Methylnaphthalene	ND	1.0	5.00	
Acenaphthylene	ND	1.0	5.00	
Acenaphthene	ND	1.0	5.00	
Fluorene	ND	1.0	5.00	
Phenanthrene	ND	1.0	5.00	
Anthracene	ND	1.0	5.00	
Fluoranthene	ND	1.0	5.00	
Pyrene	ND	1.0	5.00	
Benzo (a) Anthracene	ND	1.0	5.00	
Chrysene	ND	1.0	5.00	
Benzo (k) Fluoranthene	ND	1.0	5.00	
Benzo (b) Fluoranthene	ND	1.0	5.00	
Benzo (a) Pyrene	ND	1.0	5.00	
Indeno (1,2,3-c,d) Pyrene	ND	1.0	5.00	
Dibenz (a,h) Anthracene	ND	1.0	5.00	
Benzo (g,h,i) Perylene	ND	1.0	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	72	13-127	
Nitrobenzene-d5	52	17-137	
p-Terphenyl-d14	75	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
		Units:	mg/kg
Project: SDSU Mission Valley / SD605			Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-2	**19-03-1368-7-a**	**03/16/19 13:50**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 19:06**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	13-127	
Nitrobenzene-d5	68	17-137	
p-Terphenyl-d14	84	4-160	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3545
Method: EPA 8270C SIM PAHs
Units: mg/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-035-494**	**N/A**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:32**	**190320L06**

Parameter	Result	RL	DF	Qualifiers
Naphthalene	ND	0.010	1.00	
2-Methylnaphthalene	ND	0.010	1.00	
1-Methylnaphthalene	ND	0.010	1.00	
Acenaphthylene	ND	0.010	1.00	
Acenaphthene	ND	0.010	1.00	
Fluorene	ND	0.010	1.00	
Phenanthrene	ND	0.010	1.00	
Anthracene	ND	0.010	1.00	
Fluoranthene	ND	0.010	1.00	
Pyrene	ND	0.010	1.00	
Benzo (a) Anthracene	ND	0.010	1.00	
Chrysene	ND	0.010	1.00	
Benzo (k) Fluoranthene	ND	0.010	1.00	
Benzo (b) Fluoranthene	ND	0.010	1.00	
Benzo (a) Pyrene	ND	0.010	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.010	1.00	
Dibenz (a,h) Anthracene	ND	0.010	1.00	
Benzo (g,h,i) Perylene	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	91	13-127	
Nitrobenzene-d5	84	17-137	
p-Terphenyl-d14	93	4-160	

Return to Contents

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-5	**19-03-1368-2-C**	**03/16/19 08:15**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 16:16**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	49	1.00	
Benzene	ND	0.99	1.00	
Bromobenzene	ND	0.99	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	0.99	1.00	
Bromoform	ND	4.9	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	0.99	1.00	
sec-Butylbenzene	ND	0.99	1.00	
tert-Butylbenzene	ND	0.99	1.00	
Carbon Disulfide	ND	9.9	1.00	
Carbon Tetrachloride	ND	0.99	1.00	
Chlorobenzene	ND	0.99	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	0.99	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	0.99	1.00	
4-Chlorotoluene	ND	0.99	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.9	1.00	
1,2-Dibromoethane	ND	0.99	1.00	
Dibromomethane	ND	0.99	1.00	
1,2-Dichlorobenzene	ND	0.99	1.00	
1,3-Dichlorobenzene	ND	0.99	1.00	
1,4-Dichlorobenzene	ND	0.99	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	0.99	1.00	
1,2-Dichloroethane	ND	0.99	1.00	
1,1-Dichloroethene	ND	0.99	1.00	
c-1,2-Dichloroethene	ND	0.99	1.00	
t-1,2-Dichloroethene	ND	0.99	1.00	
1,2-Dichloropropane	ND	0.99	1.00	
1,3-Dichloropropane	ND	0.99	1.00	
2,2-Dichloropropane	ND	4.9	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 2 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	0.99	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	0.99	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	0.99	1.00	
p-Isopropyltoluene	ND	0.99	1.00	
Methylene Chloride	ND	9.9	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	9.9	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	0.99	1.00	
1,1,1,2-Tetrachloroethane	ND	0.99	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	0.99	1.00	
Toluene	ND	0.99	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	0.99	1.00	
1,1,2-Trichloroethane	ND	0.99	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.9	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	9.9	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	9.9	1.00	
Vinyl Chloride	ND	0.99	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	0.99	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	0.99	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.99	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.99	1.00	
Ethanol	ND	490	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	79-133	
1,2-Dichloroethane-d4	117	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-31-10	**19-03-1368-3-C**	**03/16/19 08:30**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 16:44**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	41	1.00	
Benzene	ND	0.83	1.00	
Bromobenzene	ND	0.83	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.83	1.00	
Bromoform	ND	4.1	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.83	1.00	
sec-Butylbenzene	ND	0.83	1.00	
tert-Butylbenzene	ND	0.83	1.00	
Carbon Disulfide	ND	8.3	1.00	
Carbon Tetrachloride	ND	0.83	1.00	
Chlorobenzene	ND	0.83	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.83	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.83	1.00	
4-Chlorotoluene	ND	0.83	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.1	1.00	
1,2-Dibromoethane	ND	0.83	1.00	
Dibromomethane	ND	0.83	1.00	
1,2-Dichlorobenzene	ND	0.83	1.00	
1,3-Dichlorobenzene	ND	0.83	1.00	
1,4-Dichlorobenzene	ND	0.83	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.83	1.00	
1,2-Dichloroethane	ND	0.83	1.00	
1,1-Dichloroethene	ND	0.83	1.00	
c-1,2-Dichloroethene	ND	0.83	1.00	
t-1,2-Dichloroethene	ND	0.83	1.00	
1,2-Dichloropropane	ND	0.83	1.00	
1,3-Dichloropropane	ND	0.83	1.00	
2,2-Dichloropropane	ND	4.1	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 5 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.83	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.83	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.83	1.00	
p-Isopropyltoluene	ND	0.83	1.00	
Methylene Chloride	ND	8.3	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.3	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.83	1.00	
1,1,1,2-Tetrachloroethane	ND	0.83	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.83	1.00	
Toluene	ND	0.83	1.00	
1,2,3-Trichlorobenzene	ND	1.7	1.00	
1,2,4-Trichlorobenzene	ND	1.7	1.00	
1,1,1-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloroethane	ND	0.83	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.3	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.3	1.00	
1,2,3-Trichloropropane	ND	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.7	1.00	
1,3,5-Trimethylbenzene	ND	1.7	1.00	
Vinyl Acetate	ND	8.3	1.00	
Vinyl Chloride	ND	0.83	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.83	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.83	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.83	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.83	1.00	
Ethanol	ND	410	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	120	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-5	**19-03-1368-5-C**	**03/16/19 13:50**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 17:13**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	38	1.00	
Benzene	ND	0.76	1.00	
Bromobenzene	ND	0.76	1.00	
Bromochloromethane	ND	1.5	1.00	
Bromodichloromethane	ND	0.76	1.00	
Bromoform	ND	3.8	1.00	
Bromomethane	ND	15	1.00	
2-Butanone	ND	15	1.00	
n-Butylbenzene	ND	0.76	1.00	
sec-Butylbenzene	ND	0.76	1.00	
tert-Butylbenzene	ND	0.76	1.00	
Carbon Disulfide	ND	7.6	1.00	
Carbon Tetrachloride	ND	0.76	1.00	
Chlorobenzene	ND	0.76	1.00	
Chloroethane	ND	1.5	1.00	
Chloroform	ND	0.76	1.00	
Chloromethane	ND	15	1.00	
2-Chlorotoluene	ND	0.76	1.00	
4-Chlorotoluene	ND	0.76	1.00	
Dibromochloromethane	ND	1.5	1.00	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.00	
1,2-Dibromoethane	ND	0.76	1.00	
Dibromomethane	ND	0.76	1.00	
1,2-Dichlorobenzene	ND	0.76	1.00	
1,3-Dichlorobenzene	ND	0.76	1.00	
1,4-Dichlorobenzene	ND	0.76	1.00	
Dichlorodifluoromethane	ND	1.5	1.00	
1,1-Dichloroethane	ND	0.76	1.00	
1,2-Dichloroethane	ND	0.76	1.00	
1,1-Dichloroethene	ND	0.76	1.00	
c-1,2-Dichloroethene	ND	0.76	1.00	
t-1,2-Dichloroethene	ND	0.76	1.00	
1,2-Dichloropropane	ND	0.76	1.00	
1,3-Dichloropropane	ND	0.76	1.00	
2,2-Dichloropropane	ND	3.8	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 8 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.5	1.00	
c-1,3-Dichloropropene	ND	0.76	1.00	
t-1,3-Dichloropropene	ND	1.5	1.00	
Ethylbenzene	ND	0.76	1.00	
2-Hexanone	ND	15	1.00	
Isopropylbenzene	ND	0.76	1.00	
p-Isopropyltoluene	ND	0.76	1.00	
Methylene Chloride	ND	7.6	1.00	
4-Methyl-2-Pentanone	ND	15	1.00	
Naphthalene	ND	7.6	1.00	
n-Propylbenzene	ND	1.5	1.00	
Styrene	ND	0.76	1.00	
1,1,1,2-Tetrachloroethane	ND	0.76	1.00	
1,1,2,2-Tetrachloroethane	ND	1.5	1.00	
Tetrachloroethene	ND	0.76	1.00	
Toluene	ND	0.76	1.00	
1,2,3-Trichlorobenzene	ND	1.5	1.00	
1,2,4-Trichlorobenzene	ND	1.5	1.00	
1,1,1-Trichloroethane	ND	0.76	1.00	
1,1,2-Trichloroethane	ND	0.76	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	7.6	1.00	
Trichloroethene	ND	1.5	1.00	
Trichlorofluoromethane	ND	7.6	1.00	
1,2,3-Trichloropropane	ND	1.5	1.00	
1,2,4-Trimethylbenzene	ND	1.5	1.00	
1,3,5-Trimethylbenzene	ND	1.5	1.00	
Vinyl Acetate	ND	7.6	1.00	
Vinyl Chloride	ND	0.76	1.00	
p/m-Xylene	ND	1.5	1.00	
o-Xylene	ND	0.76	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.5	1.00	
Tert-Butyl Alcohol (TBA)	ND	15	1.00	
Diisopropyl Ether (DIPE)	ND	0.76	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.76	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.76	1.00	
Ethanol	ND	380	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	79-133	
1,2-Dichloroethane-d4	116	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-30-10	**19-03-1368-6-C**	**03/16/19 14:00**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 17:41**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	46	1.00	
Benzene	ND	0.92	1.00	
Bromobenzene	ND	0.92	1.00	
Bromochloromethane	ND	1.8	1.00	
Bromodichloromethane	ND	0.92	1.00	
Bromoform	ND	4.6	1.00	
Bromomethane	ND	18	1.00	
2-Butanone	ND	18	1.00	
n-Butylbenzene	ND	0.92	1.00	
sec-Butylbenzene	ND	0.92	1.00	
tert-Butylbenzene	ND	0.92	1.00	
Carbon Disulfide	ND	9.2	1.00	
Carbon Tetrachloride	ND	0.92	1.00	
Chlorobenzene	ND	0.92	1.00	
Chloroethane	ND	1.8	1.00	
Chloroform	ND	0.92	1.00	
Chloromethane	ND	18	1.00	
2-Chlorotoluene	ND	0.92	1.00	
4-Chlorotoluene	ND	0.92	1.00	
Dibromochloromethane	ND	1.8	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.6	1.00	
1,2-Dibromoethane	ND	0.92	1.00	
Dibromomethane	ND	0.92	1.00	
1,2-Dichlorobenzene	ND	0.92	1.00	
1,3-Dichlorobenzene	ND	0.92	1.00	
1,4-Dichlorobenzene	ND	0.92	1.00	
Dichlorodifluoromethane	ND	1.8	1.00	
1,1-Dichloroethane	ND	0.92	1.00	
1,2-Dichloroethane	ND	0.92	1.00	
1,1-Dichloroethene	ND	0.92	1.00	
c-1,2-Dichloroethene	ND	0.92	1.00	
t-1,2-Dichloroethene	ND	0.92	1.00	
1,2-Dichloropropane	ND	0.92	1.00	
1,3-Dichloropropane	ND	0.92	1.00	
2,2-Dichloropropane	ND	4.6	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 11 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.8	1.00	
c-1,3-Dichloropropene	ND	0.92	1.00	
t-1,3-Dichloropropene	ND	1.8	1.00	
Ethylbenzene	ND	0.92	1.00	
2-Hexanone	ND	18	1.00	
Isopropylbenzene	ND	0.92	1.00	
p-Isopropyltoluene	ND	0.92	1.00	
Methylene Chloride	ND	9.2	1.00	
4-Methyl-2-Pentanone	ND	18	1.00	
Naphthalene	ND	9.2	1.00	
n-Propylbenzene	ND	1.8	1.00	
Styrene	ND	0.92	1.00	
1,1,1,2-Tetrachloroethane	ND	0.92	1.00	
1,1,2,2-Tetrachloroethane	ND	1.8	1.00	
Tetrachloroethene	ND	0.92	1.00	
Toluene	ND	0.92	1.00	
1,2,3-Trichlorobenzene	ND	1.8	1.00	
1,2,4-Trichlorobenzene	ND	1.8	1.00	
1,1,1-Trichloroethane	ND	0.92	1.00	
1,1,2-Trichloroethane	ND	0.92	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.2	1.00	
Trichloroethene	ND	1.8	1.00	
Trichlorofluoromethane	ND	9.2	1.00	
1,2,3-Trichloropropane	ND	1.8	1.00	
1,2,4-Trimethylbenzene	ND	1.8	1.00	
1,3,5-Trimethylbenzene	ND	1.8	1.00	
Vinyl Acetate	ND	9.2	1.00	
Vinyl Chloride	ND	0.92	1.00	
p/m-Xylene	ND	1.8	1.00	
o-Xylene	ND	0.92	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.8	1.00	
Tert-Butyl Alcohol (TBA)	ND	18	1.00	
Diisopropyl Ether (DIPE)	ND	0.92	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.92	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.92	1.00	
Ethanol	ND	460	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	117	71-155	
Toluene-d8	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 13 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-5	**19-03-1368-8-C**	**03/16/19 13:55**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 18:10**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	46	1.00	
Benzene	ND	0.93	1.00	
Bromobenzene	ND	0.93	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.93	1.00	
Bromoform	ND	4.6	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.93	1.00	
sec-Butylbenzene	ND	0.93	1.00	
tert-Butylbenzene	ND	0.93	1.00	
Carbon Disulfide	ND	9.3	1.00	
Carbon Tetrachloride	ND	0.93	1.00	
Chlorobenzene	ND	0.93	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.93	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.93	1.00	
4-Chlorotoluene	ND	0.93	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.6	1.00	
1,2-Dibromoethane	ND	0.93	1.00	
Dibromomethane	ND	0.93	1.00	
1,2-Dichlorobenzene	ND	0.93	1.00	
1,3-Dichlorobenzene	ND	0.93	1.00	
1,4-Dichlorobenzene	ND	0.93	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.93	1.00	
1,2-Dichloroethane	ND	0.93	1.00	
1,1-Dichloroethene	ND	0.93	1.00	
c-1,2-Dichloroethene	ND	0.93	1.00	
t-1,2-Dichloroethene	ND	0.93	1.00	
1,2-Dichloropropane	ND	0.93	1.00	
1,3-Dichloropropane	ND	0.93	1.00	
2,2-Dichloropropane	ND	4.6	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 14 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.93	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.93	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.93	1.00	
p-Isopropyltoluene	ND	0.93	1.00	
Methylene Chloride	ND	9.3	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.3	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.93	1.00	
1,1,1,2-Tetrachloroethane	ND	0.93	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.93	1.00	
Toluene	ND	0.93	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.3	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.3	1.00	
Vinyl Chloride	ND	0.93	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.93	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.93	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.93	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.93	1.00	
Ethanol	ND	460	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 15 of 21

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

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B
Units: ug/kg

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-28-10	**19-03-1368-9-C**	**03/16/19 14:00**	**Solid**	**GC/MS QQ**	**03/16/19**	**03/23/19 18:39**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	47	1.00	
Benzene	ND	0.93	1.00	
Bromobenzene	ND	0.93	1.00	
Bromochloromethane	ND	1.9	1.00	
Bromodichloromethane	ND	0.93	1.00	
Bromoform	ND	4.7	1.00	
Bromomethane	ND	19	1.00	
2-Butanone	ND	19	1.00	
n-Butylbenzene	ND	0.93	1.00	
sec-Butylbenzene	ND	0.93	1.00	
tert-Butylbenzene	ND	0.93	1.00	
Carbon Disulfide	ND	9.3	1.00	
Carbon Tetrachloride	ND	0.93	1.00	
Chlorobenzene	ND	0.93	1.00	
Chloroethane	ND	1.9	1.00	
Chloroform	ND	0.93	1.00	
Chloromethane	ND	19	1.00	
2-Chlorotoluene	ND	0.93	1.00	
4-Chlorotoluene	ND	0.93	1.00	
Dibromochloromethane	ND	1.9	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.7	1.00	
1,2-Dibromoethane	ND	0.93	1.00	
Dibromomethane	ND	0.93	1.00	
1,2-Dichlorobenzene	ND	0.93	1.00	
1,3-Dichlorobenzene	ND	0.93	1.00	
1,4-Dichlorobenzene	ND	0.93	1.00	
Dichlorodifluoromethane	ND	1.9	1.00	
1,1-Dichloroethane	ND	0.93	1.00	
1,2-Dichloroethane	ND	0.93	1.00	
1,1-Dichloroethene	ND	0.93	1.00	
c-1,2-Dichloroethene	ND	0.93	1.00	
t-1,2-Dichloroethene	ND	0.93	1.00	
1,2-Dichloropropane	ND	0.93	1.00	
1,3-Dichloropropane	ND	0.93	1.00	
2,2-Dichloropropane	ND	4.7	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 17 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.9	1.00	
c-1,3-Dichloropropene	ND	0.93	1.00	
t-1,3-Dichloropropene	ND	1.9	1.00	
Ethylbenzene	ND	0.93	1.00	
2-Hexanone	ND	19	1.00	
Isopropylbenzene	ND	0.93	1.00	
p-Isopropyltoluene	ND	0.93	1.00	
Methylene Chloride	ND	9.3	1.00	
4-Methyl-2-Pentanone	ND	19	1.00	
Naphthalene	ND	9.3	1.00	
n-Propylbenzene	ND	1.9	1.00	
Styrene	ND	0.93	1.00	
1,1,1,2-Tetrachloroethane	ND	0.93	1.00	
1,1,2,2-Tetrachloroethane	ND	1.9	1.00	
Tetrachloroethene	ND	0.93	1.00	
Toluene	ND	0.93	1.00	
1,2,3-Trichlorobenzene	ND	1.9	1.00	
1,2,4-Trichlorobenzene	ND	1.9	1.00	
1,1,1-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloroethane	ND	0.93	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	9.3	1.00	
Trichloroethene	ND	1.9	1.00	
Trichlorofluoromethane	ND	9.3	1.00	
1,2,3-Trichloropropane	ND	1.9	1.00	
1,2,4-Trimethylbenzene	ND	1.9	1.00	
1,3,5-Trimethylbenzene	ND	1.9	1.00	
Vinyl Acetate	ND	9.3	1.00	
Vinyl Chloride	ND	0.93	1.00	
p/m-Xylene	ND	1.9	1.00	
o-Xylene	ND	0.93	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.9	1.00	
Tert-Butyl Alcohol (TBA)	ND	19	1.00	
Diisopropyl Ether (DIPE)	ND	0.93	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.93	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.93	1.00	
Ethanol	ND	470	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	79-133	
1,2-Dichloroethane-d4	120	71-155	
Toluene-d8	102	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: SDSU Mission Valley / SD605			Page 19 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-30837**	**N/A**	**Solid**	**GC/MS QQ**	**03/23/19**	**03/23/19 12:55**	**190323L011**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	50	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	20	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	1.0	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	2.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	20	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	2.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	1.0	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 20 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	2.0	1.00	
c-1,3-Dichloropropene	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	2.0	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	20	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	20	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	2.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	2.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	2.0	1.00	
1,2,4-Trichlorobenzene	ND	2.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
Trichloroethene	ND	2.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	2.0	1.00	
1,2,4-Trimethylbenzene	ND	2.0	1.00	
1,3,5-Trimethylbenzene	ND	2.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	1.0	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	20	1.00	
Diisopropyl Ether (DIPE)	ND	1.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	1.00	
Ethanol	ND	500	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: SDSU Mission Valley / SD605		Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	105	71-155	
Toluene-d8	100	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1495-1	**Sample**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 12:52**	**190320S10**
19-03-1495-1	**Matrix Spike**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 12:12**	**190320S10**
19-03-1495-1	**Matrix Spike Duplicate**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 12:32**	**190320S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	ND	400.0	408.6	102	410.3	103	64-130	0	0-15	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: SDSU Mission Valley / SD605			Page 2 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1475-4	**Sample**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 17:04**	**190322S02**
19-03-1475-4	**Matrix Spike**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 17:07**	**190322S02**
19-03-1475-4	**Matrix Spike Duplicate**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 17:08**	**190322S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	11.38	46	12.41	50	50-115	9	0-20	3
Arsenic	1.067	25.00	29.50	114	30.22	117	75-125	2	0-20	
Barium	50.27	25.00	78.65	114	133.3	332	75-125	52	0-20	3,4
Beryllium	ND	25.00	26.19	105	25.63	103	75-125	2	0-20	
Cadmium	ND	25.00	26.75	107	26.34	105	75-125	2	0-20	
Chromium	5.913	25.00	39.36	134	34.25	113	75-125	14	0-20	3
Cobalt	4.023	25.00	31.72	111	31.25	109	75-125	2	0-20	
Copper	6.943	25.00	35.33	114	34.69	111	75-125	2	0-20	
Lead	0.9889	25.00	28.32	109	28.05	108	75-125	1	0-20	
Molybdenum	ND	25.00	25.30	101	24.92	100	75-125	2	0-20	
Nickel	5.510	25.00	34.15	115	32.28	107	75-125	6	0-20	
Selenium	ND	25.00	24.94	100	24.54	98	75-125	2	0-20	
Silver	ND	12.50	12.77	102	12.46	100	75-125	2	0-20	
Thallium	ND	25.00	26.41	106	26.08	104	75-125	1	0-20	
Vanadium	10.87	25.00	41.25	122	39.28	114	75-125	5	0-20	
Zinc	16.74	25.00	46.02	117	46.81	120	75-125	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 3 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1475-4	**Sample**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 17:49**	**190325S05**
19-03-1475-4	**Matrix Spike**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 17:51**	**190325S05**
19-03-1475-4	**Matrix Spike Duplicate**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 17:53**	**190325S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8172	98	0.8094	97	71-137	1	0-14	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 4 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1293-1	**Sample**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 15:49**	**190319S10**
19-03-1293-1	**Matrix Spike**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 15:21**	**190319S10**
19-03-1293-1	**Matrix Spike Duplicate**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 15:35**	**190319S10**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	18.08	72	18.01	72	50-135	0	0-25	
Alpha-BHC	ND	25.00	17.44	70	17.92	72	50-135	3	0-25	
Beta-BHC	ND	25.00	16.83	67	17.24	69	50-135	2	0-25	
4,4'-DDD	ND	25.00	20.61	82	21.11	84	50-135	2	0-25	
4,4'-DDE	ND	25.00	23.47	94	23.63	95	50-135	1	0-25	
4,4'-DDT	ND	25.00	23.47	94	23.20	93	50-135	1	0-25	
Delta-BHC	ND	25.00	16.36	65	15.76	63	50-135	4	0-25	
Dieldrin	ND	25.00	19.61	78	20.00	80	50-135	2	0-25	
Endosulfan I	ND	25.00	19.07	76	19.29	77	50-135	1	0-25	
Endosulfan II	ND	25.00	19.07	76	19.76	79	50-135	4	0-25	
Endosulfan Sulfate	ND	25.00	19.13	77	20.34	81	50-135	6	0-25	
Endrin	ND	25.00	18.52	74	19.58	78	50-135	6	0-25	
Endrin Aldehyde	ND	25.00	18.05	72	18.95	76	50-135	5	0-25	
Gamma-BHC	ND	25.00	17.32	69	17.84	71	50-135	3	0-25	
Heptachlor	ND	25.00	18.98	76	18.82	75	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	18.78	75	19.05	76	50-135	1	0-25	
Methoxychlor	ND	25.00	20.70	83	22.28	89	50-135	7	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	03/18/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-1368
Torrance, CA 90501-7243	Preparation:	EPA 3545
	Method:	EPA 8082
Project: SDSU Mission Valley / SD605		Page 5 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1293-1	**Sample**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 13:02**	**190319S11**
19-03-1293-1	**Matrix Spike**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 12:26**	**190319S11**
19-03-1293-1	**Matrix Spike Duplicate**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 12:44**	**190319S11**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	92.00	92	105.0	105	50-135	13	0-20	
Aroclor-1260	ND	100.0	52.00	52	59.50	60	50-135	13	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 6 of 6

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-1240-1	**Sample**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 17:29**	**190320S06**
19-03-1240-1	**Matrix Spike**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:11**	**190320S06**
19-03-1240-1	**Matrix Spike Duplicate**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 16:31**	**190320S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Naphthalene	ND	0.1000	0.09354	94	0.07960	80	20-150	16	0-33	
2-Methylnaphthalene	ND	0.1000	0.09502	95	0.08020	80	29-137	17	0-31	
1-Methylnaphthalene	ND	0.1000	0.08849	88	0.07432	74	34-136	17	0-29	
Acenaphthylene	ND	0.1000	0.09257	93	0.07905	79	29-131	16	0-32	
Acenaphthene	ND	0.1000	0.08528	85	0.07227	72	29-137	17	0-28	
Fluorene	ND	0.1000	0.08765	88	0.07574	76	36-132	15	0-27	
Phenanthrene	ND	0.1000	0.08709	87	0.07717	77	20-144	12	0-27	
Anthracene	ND	0.1000	0.09258	93	0.08180	82	26-134	12	0-27	
Fluoranthene	ND	0.1000	0.08883	89	0.07966	80	20-151	11	0-26	
Pyrene	ND	0.1000	0.09075	91	0.08363	84	20-150	8	0-32	
Benzo (a) Anthracene	ND	0.1000	0.09674	97	0.08717	87	24-150	10	0-24	
Chrysene	ND	0.1000	0.09448	94	0.08676	87	25-145	9	0-28	
Benzo (k) Fluoranthene	ND	0.1000	0.09287	93	0.08330	83	28-148	11	0-26	
Benzo (b) Fluoranthene	ND	0.1000	0.09680	97	0.08500	85	21-153	13	0-26	
Benzo (a) Pyrene	ND	0.1000	0.1171	117	0.1061	106	29-149	10	0-22	
Indeno (1,2,3-c,d) Pyrene	ND	0.1000	0.1030	103	0.09615	96	20-154	7	0-25	
Dibenz (a,h) Anthracene	ND	0.1000	0.1072	107	0.1005	101	20-132	6	0-26	
Benzo (g,h,i) Perylene	ND	0.1000	0.1011	101	0.09537	95	20-148	6	0-27	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-582-565	**LCS**	**Solid**	**GC 50**	**03/20/19**	**03/21/19 11:52**	**190320B10A**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	410.2	103	75-117	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 03/18/19
370 Amapola Avenue, Suite 212	Work Order: 19-03-1368
Torrance, CA 90501-7243	Preparation: EPA 5035
	Method: EPA 8015B (M)
Project: SDSU Mission Valley / SD605	Page 2 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-043-921	**LCS**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 07:43**	**190321L034**
099-13-043-921	**LCSD**	**Solid**	**GC 4**	**03/21/19**	**03/21/19 08:17**	**190321L034**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2.000	2.067	103	1.973	99	55-139	5	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 3050B
Method: EPA 6010B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-27682	**LCS**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 17:01**	**190322L02**
097-01-002-27682	**LCSD**	**Solid**	**ICP 8300**	**03/22/19**	**03/26/19 17:03**	**190322L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	25.00	25.85	103	26.07	104	80-120	73-127	1	0-20	
Arsenic	25.00	25.99	104	25.96	104	80-120	73-127	0	0-20	
Barium	25.00	26.24	105	26.18	105	80-120	73-127	0	0-20	
Beryllium	25.00	23.76	95	23.81	95	80-120	73-127	0	0-20	
Cadmium	25.00	25.68	103	25.47	102	80-120	73-127	1	0-20	
Chromium	25.00	25.75	103	25.57	102	80-120	73-127	1	0-20	
Cobalt	25.00	27.73	111	27.51	110	80-120	73-127	1	0-20	
Copper	25.00	26.24	105	26.06	104	80-120	73-127	1	0-20	
Lead	25.00	26.52	106	26.41	106	80-120	73-127	0	0-20	
Molybdenum	25.00	24.59	98	24.58	98	80-120	73-127	0	0-20	
Nickel	25.00	26.50	106	26.62	106	80-120	73-127	0	0-20	
Selenium	25.00	23.53	94	23.61	94	80-120	73-127	0	0-20	
Silver	12.50	12.12	97	12.06	96	80-120	73-127	1	0-20	
Thallium	25.00	26.42	106	26.13	105	80-120	73-127	1	0-20	
Vanadium	25.00	25.23	101	24.93	100	80-120	73-127	1	0-20	
Zinc	25.00	25.68	103	25.68	103	80-120	73-127	0	0-20	

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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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: SDSU Mission Valley / SD605			Page 4 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-4494	**LCS**	**Solid**	**Mercury 07**	**03/25/19**	**03/25/19 17:46**	**190325L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7562	91	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: SDSU Mission Valley / SD605			Page 5 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-3122	**LCS**	**Solid**	**GC 51**	**03/19/19**	**03/20/19 17:00**	**190319L10**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	20.26	81	50-135	36-149	
Alpha-BHC	25.00	20.26	81	50-135	36-149	
Beta-BHC	25.00	18.87	75	50-135	36-149	
4,4'-DDD	25.00	19.71	79	50-135	36-149	
4,4'-DDE	25.00	20.16	81	50-135	36-149	
4,4'-DDT	25.00	20.27	81	50-135	36-149	
Delta-BHC	25.00	20.13	81	50-135	36-149	
Dieldrin	25.00	19.93	80	50-135	36-149	
Endosulfan I	25.00	20.35	81	50-135	36-149	
Endosulfan II	25.00	19.95	80	50-135	36-149	
Endosulfan Sulfate	25.00	19.68	79	50-135	36-149	
Endrin	25.00	19.25	77	50-135	36-149	
Endrin Aldehyde	25.00	18.34	73	50-135	36-149	
Gamma-BHC	25.00	20.09	80	50-135	36-149	
Heptachlor	25.00	21.14	85	50-135	36-149	
Heptachlor Epoxide	25.00	20.15	81	50-135	36-149	
Methoxychlor	25.00	19.67	79	50-135	36-149	

Total number of LCS compounds: 17
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8082
Project: SDSU Mission Valley / SD605			Page 6 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-5131	**LCS**	**Solid**	**GC 58**	**03/19/19**	**03/20/19 12:08**	**190319L11**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	91.50	92	50-135	
Aroclor-1260	100.0	98.00	98	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/18/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-1368
Torrance, CA 90501-7243		Preparation:	EPA 3545
		Method:	EPA 8270C SIM PAHs
Project: SDSU Mission Valley / SD605			Page 7 of 8

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-035-494	**LCS**	**Solid**	**GC/MS AAA**	**03/20/19**	**03/21/19 15:52**	**190320L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Naphthalene	0.1000	0.08638	86	51-129	38-142	
2-Methylnaphthalene	0.1000	0.08730	87	50-127	37-140	
1-Methylnaphthalene	0.1000	0.08506	85	54-132	41-145	
Acenaphthylene	0.1000	0.08934	89	50-123	38-135	
Acenaphthene	0.1000	0.07840	78	53-125	41-137	
Fluorene	0.1000	0.08181	82	55-127	43-139	
Phenanthrene	0.1000	0.08132	81	50-122	38-134	
Anthracene	0.1000	0.08767	88	50-132	36-146	
Fluoranthene	0.1000	0.08383	84	55-127	43-139	
Pyrene	0.1000	0.08053	81	50-134	36-148	
Benzo (a) Anthracene	0.1000	0.08688	87	50-133	36-147	
Chrysene	0.1000	0.08556	86	51-129	38-142	
Benzo (k) Fluoranthene	0.1000	0.08566	86	49-150	32-167	
Benzo (b) Fluoranthene	0.1000	0.08716	87	50-142	35-157	
Benzo (a) Pyrene	0.1000	0.1064	106	50-134	36-148	
Indeno (1,2,3-c,d) Pyrene	0.1000	0.09170	92	50-148	34-164	
Dibenz (a,h) Anthracene	0.1000	0.09522	95	50-133	36-147	
Benzo (g,h,i) Perylene	0.1000	0.09032	90	50-130	37-143	

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/18/19
Work Order: 19-03-1368
Preparation: EPA 5035
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-30837	**LCS**	**Solid**	**GC/MS QQ**	**03/23/19**	**03/23/19 11:16**	**190323L011**
095-01-025-30837	**LCSD**	**Solid**	**GC/MS QQ**	**03/23/19**	**03/23/19 11:44**	**190323L011**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	53.34	107	55.05	110	80-120	73-127	3	0-20	
Carbon Tetrachloride	50.00	55.86	112	57.26	115	65-137	53-149	2	0-20	
Chlorobenzene	50.00	53.76	108	55.25	110	80-120	73-127	3	0-20	
1,2-Dibromoethane	50.00	53.45	107	56.06	112	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	50.00	54.97	110	56.41	113	80-120	73-127	3	0-20	
1,2-Dichloroethane	50.00	55.10	110	55.98	112	80-120	73-127	2	0-20	
1,1-Dichloroethene	50.00	56.73	113	58.72	117	68-128	58-138	3	0-20	
Ethylbenzene	50.00	56.14	112	57.90	116	80-120	73-127	3	0-20	
Toluene	50.00	55.60	111	56.97	114	80-120	73-127	2	0-20	
Trichloroethene	50.00	55.04	110	57.89	116	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	48.52	97	48.53	97	67-127	57-137	0	0-20	
p/m-Xylene	100.0	111.6	112	114.8	115	75-125	67-133	3	0-25	
o-Xylene	50.00	57.54	115	59.25	119	75-125	67-133	3	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	45.40	91	46.62	93	70-124	61-133	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	277.1	111	257.5	103	73-121	65-129	7	0-20	
Diisopropyl Ether (DIPE)	50.00	51.54	103	52.67	105	69-129	59-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	49.32	99	50.29	101	70-124	61-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	54.06	108	56.48	113	74-122	66-130	4	0-20	
Ethanol	500.0	433.0	87	508.7	102	51-135	37-149	16	0-27	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-03-1368 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	771	ICP 8300	1
EPA 7471A	EPA 7471A Total	868	Mercury 07	1
EPA 8015B (M)	EPA 5035	715	GC 4	2
EPA 8015B (M)	EPA 3550B	1028	GC 50	1
EPA 8081A	EPA 3545	669	GC 51	1
EPA 8082	EPA 3545	669	GC 58	1
EPA 8260B	EPA 5035	486	GC/MS QQ	2
EPA 8270C SIM PAHs	EPA 3545	923	GC/MS AAA	1

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Glossary of Terms and Qualifiers

Work Order: 19-03-1368 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/PDSD 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.
CI	See case narrative.
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.

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Erick Ovalle

From: Alexandre Santini <alexandres@groupdelta.com>
Sent: Tuesday, March 19, 2019 12:27 PM
To: Erick Ovalle
Cc: Vikas Patel
Subject: RE: Sample receipt confirmation / 19-03-1368 / SDSU Mission Valley / SD605

EXTERNAL EMAIL*

Erick – Thanks for following up.

For samples 2, 3, 5, 6, 8, and 9 please analyze for VOCs and oxygenates.

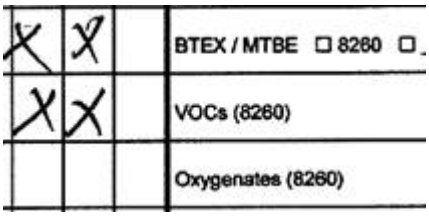
For samples 1, 4, and 7 please include Title 22 Metals.

Thanks - Alex

From: Erick Ovalle <ErickOvalle@eurofinsUS.com>
Sent: Tuesday, March 19, 2019 12:06 PM
To: Alexandre Santini <alexandres@groupdelta.com>
Cc: Vikas Patel <VikasPatel@eurofinsUS.com>
Subject: Sample receipt confirmation / 19-03-1368 / SDSU Mission Valley / SD605

Sample receipt confirmation attached. Please review and advise of any changes required.

The COC calls for BTEX and VOCs – did you mean to request VOCs and Oxygenates?



Please call with any questions or concerns.

Best Regards,
Erick Ovalle
Project Manager Assistant

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841-1427
USA
Phone: +1 (714) 895-5494

Email: ErickOvalle@eurofinsus.com
Website: www.EurofinsUS.com/Env

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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.

CHAIN-OF-CUSTODY RECORD

Date 3/16/19
Page 1 of 1

WO NO. / LAB USE ONLY
19-03-1368

LABORATORY CLIENT: Group Delta Consultants
ADDRESS: 9245 Activity Rd Suite 103
CITY: San Diego STATE: CA ZIP: 92126
TEL: 858-536-1000 E-MAIL: ALEXANDRES@GROUPDELTA.COM

CLIENT PROJECT NAME / NO.: SDSU Mission Valley
P.O. NO.: SD605
PROJECT CONTACT: Alex Santini
LAB CONTACT OR QUOTE NO:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Allison Bieda, Samuel Narveson

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:

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ 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				
1	B-31-0	3/16/19	8:10	Soil	1	X												X	X	X						
2	B-31-5		8:15		6	X	X		X	X			X	X												
3	B-31-10		8:30		6	X	X		X	X			X	X												
4	B-30-2.5		13:35		1	X												X	X	X						
5	B-30-5		13:50		6	X	X		X	X			X	X												
6	B-30-10		14:00		6	X	X		X	X			X	X												
7	B-28-2		13:50		1	X												X	X	X						
8	B-28-5		13:55		6	X	X		X	X			X	X												
9	B-28-10		14:00		6	X	X		X	X			X	X												
10																										

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 03/18/19	Time: 1405
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/18/19	Time: 18:27
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2016-04-01-Revision

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WORK ORDER NUMBER: 19-03-1368

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/18/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.3 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 1053

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☒ 3/18/19	☐
☐ Sampling date ☐ Sampling time ☑ Matrix ☐ Number of containers — DL 3/18/19			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☑ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☑ TerraCores® (5) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4,

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1053

Reviewed by: 671

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Groundwater Analytical Laboratory Reports

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Supplemental Report 1

The original report has been revised/corrected.

WORK ORDER NUMBER: 19-03-0871

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Group Delta Consultants, Inc.

Client Project Name: SDSU Mission Valley / SD605

Attention: Alex Santini
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Vikas Patel

Approved for release on 04/01/2019 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

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Client Project Name: SDSU Mission Valley / SD605
Work Order Number: 19-03-0871

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Work Order Narrative

Work Order: 19-03-0871 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 03/12/19. They were assigned to Work Order 19-03-0871.

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.

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Sample Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-0871
		Project Name:	SDSU Mission Valley / SD605
		PO Number:	SD605
		Date/Time Received:	03/12/19 19:00
		Number of Containers:	26
Attn:	Alex Santini		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Equip Blank	19-03-0871-1	03/12/19 09:00	6	Aqueous
TB	19-03-0871-2	03/12/19 09:10	2	Aqueous
R-86 AS	19-03-0871-3	03/12/19 12:55	6	Aqueous
R-33 AS	19-03-0871-4	03/12/19 13:55	6	Aqueous
R-9 AS	19-03-0871-5	03/12/19 14:25	6	Aqueous

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Detections Summary

Client:	Group Delta Consultants, Inc. 370 Amapola Avenue, Suite 212 Torrance, CA 90501-7243	Work Order:	19-03-0871
		Project Name:	SDSU Mission Valley / SD605
		Received:	03/12/19
Attn:	Alex Santini		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
R-86 AS (19-03-0871-3)						
C15-C16	17	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C17-C18	21	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C19-C20	16	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C13-C22 TPH Diesel Range	55		50	ug/L	EPA 8015B (M)	EPA 3510C
R-33 AS (19-03-0871-4)						
C13-C14	21	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C15-C16	33	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C17-C18	20	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C13-C22 TPH Diesel Range	74		50	ug/L	EPA 8015B (M)	EPA 3510C
R-9 AS (19-03-0871-5)						
C15-C16	36	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C17-C18	47		45	ug/L	EPA 8015B (M)	EPA 3510C
C19-C20	78		45	ug/L	EPA 8015B (M)	EPA 3510C
C21-C22	82		45	ug/L	EPA 8015B (M)	EPA 3510C
C23-C24	77		45	ug/L	EPA 8015B (M)	EPA 3510C
C25-C26	65		45	ug/L	EPA 8015B (M)	EPA 3510C
C27-C28	44	J	14*	ug/L	EPA 8015B (M)	EPA 3510C
C13-C22 TPH Diesel Range	240		50	ug/L	EPA 8015B (M)	EPA 3510C

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

* MDL is shown

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Equip Blank	**19-03-0871-1-H**	**03/12/19 09:00**	**Aqueous**	**GC 50**	**03/13/19**	**03/16/19 01:52**	**190313B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	46	15	1.00	
C15-C16	ND	46	15	1.00	
C17-C18	ND	46	15	1.00	
C19-C20	ND	46	15	1.00	
C21-C22	ND	46	15	1.00	
C23-C24	ND	46	15	1.00	
C25-C26	ND	46	15	1.00	
C27-C28	ND	46	15	1.00	
C13-C22 TPH Diesel Range	ND	50	16	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	130	68-140	

R-86 AS	19-03-0871-3-H	03/12/19 12:55	Aqueous	GC 50	03/13/19	03/16/19 02:12	190313B05A

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	45	14	1.00	
C15-C16	17	45	14	1.00	J
C17-C18	21	45	14	1.00	J
C19-C20	16	45	14	1.00	J
C21-C22	ND	45	14	1.00	
C23-C24	ND	45	14	1.00	
C25-C26	ND	45	14	1.00	
C27-C28	ND	45	14	1.00	
C13-C22 TPH Diesel Range	55	50	16	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	122	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-33 AS	**19-03-0871-4-H**	**03/12/19 13:55**	**Aqueous**	**GC 50**	**03/13/19**	**03/16/19 02:31**	**190313B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	21	45	14	1.00	J
C15-C16	33	45	14	1.00	J
C17-C18	20	45	14	1.00	J
C19-C20	ND	45	14	1.00	
C21-C22	ND	45	14	1.00	
C23-C24	ND	45	14	1.00	
C25-C26	ND	45	14	1.00	
C27-C28	ND	45	14	1.00	
C13-C22 TPH Diesel Range	74	50	16	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	111	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-9 AS	**19-03-0871-5-H**	**03/12/19 14:25**	**Aqueous**	**GC 50**	**03/13/19**	**03/16/19 02:51**	**190313B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	45	14	1.00	
C15-C16	36	45	14	1.00	J
C17-C18	47	45	14	1.00	
C19-C20	78	45	14	1.00	
C21-C22	82	45	14	1.00	
C23-C24	77	45	14	1.00	
C25-C26	65	45	14	1.00	
C27-C28	44	45	14	1.00	J
C13-C22 TPH Diesel Range	240	50	16	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-542-395**	**N/A**	**Aqueous**	**GC 50**	**03/13/19**	**03/15/19 20:54**	**190313B05A**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C13-C14	ND	50	16	1.00	
C15-C16	ND	50	16	1.00	
C17-C18	ND	50	16	1.00	
C19-C20	ND	50	16	1.00	
C21-C22	ND	50	16	1.00	
C23-C24	ND	50	16	1.00	
C25-C26	ND	50	16	1.00	
C27-C28	ND	50	16	1.00	
C13-C22 TPH Diesel Range	ND	50	16	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	109	68-140	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Equip Blank	**19-03-0871-1-D**	**03/12/19 09:00**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 10:00**	**190318L052**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	50	15	1.00	
C6	ND	50	14	1.00	
C7	ND	50	15	1.00	
C8	ND	50	15	1.00	
C9-C10	ND	50	15	1.00	
C11-C12	ND	50	18	1.00	
GRO (C4-C12) Total	ND	50	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

R-86 AS	**19-03-0871-3-D**	**03/12/19 12:55**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 10:35**	**190318L052**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	50	15	1.00	
C6	ND	50	14	1.00	
C7	ND	50	15	1.00	
C8	ND	50	15	1.00	
C9-C10	ND	50	15	1.00	
C11-C12	ND	50	18	1.00	
GRO (C4-C12) Total	ND	50	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	63	38-134	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-33 AS	**19-03-0871-4-D**	**03/12/19 13:55**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 12:19**	**190318L052**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	50	15	1.00	
C6	ND	50	14	1.00	
C7	ND	50	15	1.00	
C8	ND	50	15	1.00	
C9-C10	ND	50	15	1.00	
C11-C12	ND	50	18	1.00	
GRO (C4-C12) Total	ND	50	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	66	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-9 AS	**19-03-0871-5-D**	**03/12/19 14:25**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 12:54**	**190318L052**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	50	15	1.00	
C6	ND	50	14	1.00	
C7	ND	50	15	1.00	
C8	ND	50	15	1.00	
C9-C10	ND	50	15	1.00	
C11-C12	ND	50	18	1.00	
GRO (C4-C12) Total	ND	50	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	59	38-134	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-13-047-744**	**N/A**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 09:25**	**190318L052**

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

Parameter	Result	RL	MDL	DF	Qualifiers
C4-C5	ND	50	15	1.00	
C6	ND	50	14	1.00	
C7	ND	50	15	1.00	
C8	ND	50	15	1.00	
C9-C10	ND	50	15	1.00	
C11-C12	ND	50	18	1.00	
GRO (C4-C12) Total	ND	50	18	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	58	38-134	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Equip Blank	**19-03-0871-1-A**	**03/12/19 09:00**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/19/19 19:04**	**190319L027**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 2 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	105	80-128	
1,2-Dichloroethane-d4	106	80-129	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB	**19-03-0871-2-A**	**03/12/19 09:10**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/19/19 19:30**	**190319L027**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: SDSU Mission Valley / SD605			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	80-128	
1,2-Dichloroethane-d4	104	80-129	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-86 AS	**19-03-0871-3-B**	**03/12/19 12:55**	**Aqueous**	**GC/MS V V**	**03/20/19**	**03/20/19 19:11**	**190320L052**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 8 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	93	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	80-128	
1,2-Dichloroethane-d4	100	80-129	
Toluene-d8	102	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-33 AS	**19-03-0871-4-A**	**03/12/19 13:55**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/20/19 00:45**	**190319L027**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 11 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: SDSU Mission Valley / SD605			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	108	80-128	
1,2-Dichloroethane-d4	109	80-129	
Toluene-d8	98	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
R-9 AS	**19-03-0871-5-A**	**03/12/19 14:25**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/20/19 01:11**	**190319L027**

Comment(s): - The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	200	10.0	
Benzene	ND	10	10.0	
Bromobenzene	ND	10	10.0	
Bromochloromethane	ND	20	10.0	
Bromodichloromethane	ND	10	10.0	
Bromoform	ND	50	10.0	
Bromomethane	ND	500	10.0	
2-Butanone	ND	200	10.0	
n-Butylbenzene	ND	10	10.0	
sec-Butylbenzene	ND	10	10.0	
tert-Butylbenzene	ND	10	10.0	
Carbon Disulfide	ND	100	10.0	
Carbon Tetrachloride	ND	5.0	10.0	
Chlorobenzene	ND	10	10.0	
Chloroethane	ND	50	10.0	
Chloroform	ND	10	10.0	
Chloromethane	ND	100	10.0	
2-Chlorotoluene	ND	10	10.0	
4-Chlorotoluene	ND	10	10.0	
Dibromochloromethane	ND	20	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	10.0	
1,2-Dibromoethane	ND	10	10.0	
Dibromomethane	ND	10	10.0	
1,2-Dichlorobenzene	ND	10	10.0	
1,3-Dichlorobenzene	ND	10	10.0	
1,4-Dichlorobenzene	ND	10	10.0	
Dichlorodifluoromethane	ND	50	10.0	
1,1-Dichloroethane	ND	10	10.0	
1,2-Dichloroethane	ND	5.0	10.0	
1,1-Dichloroethene	ND	10	10.0	
c-1,2-Dichloroethene	ND	10	10.0	
t-1,2-Dichloroethene	ND	10	10.0	
1,2-Dichloropropane	ND	10	10.0	
1,3-Dichloropropane	ND	10	10.0	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 14 of 21

Parameter	Result	RL	DF	Qualifiers
2,2-Dichloropropane	ND	10	10.0	
1,1-Dichloropropene	ND	10	10.0	
c-1,3-Dichloropropene	ND	5.0	10.0	
t-1,3-Dichloropropene	ND	5.0	10.0	
Ethylbenzene	ND	10	10.0	
2-Hexanone	ND	100	10.0	
Isopropylbenzene	ND	10	10.0	
p-Isopropyltoluene	ND	10	10.0	
Methylene Chloride	ND	100	10.0	
4-Methyl-2-Pentanone	ND	100	10.0	
Naphthalene	ND	100	10.0	
n-Propylbenzene	ND	10	10.0	
Styrene	ND	10	10.0	
1,1,1,2-Tetrachloroethane	ND	20	10.0	
1,1,2,2-Tetrachloroethane	ND	100	10.0	
Tetrachloroethene	ND	10	10.0	
Toluene	ND	10	10.0	
1,2,3-Trichlorobenzene	ND	10	10.0	
1,2,4-Trichlorobenzene	ND	10	10.0	
1,1,1-Trichloroethane	ND	10	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10.0	
1,1,2-Trichloroethane	ND	10	10.0	
Trichloroethene	ND	10	10.0	
Trichlorofluoromethane	ND	100	10.0	
1,2,3-Trichloropropane	ND	50	10.0	
1,2,4-Trimethylbenzene	ND	10	10.0	
1,3,5-Trimethylbenzene	ND	10	10.0	
Vinyl Acetate	ND	100	10.0	
Vinyl Chloride	ND	5.0	10.0	
p/m-Xylene	ND	20	10.0	
o-Xylene	ND	10	10.0	
Methyl-t-Butyl Ether (MTBE)	ND	10	10.0	
Tert-Butyl Alcohol (TBA)	ND	100	10.0	
Diisopropyl Ether (DIPE)	ND	20	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	10.0	
Ethanol	ND	1000	10.0	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	88	77-120	
Dibromofluoromethane	112	80-128	
1,2-Dichloroethane-d4	113	80-129	
Toluene-d8	98	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-28304**	**N/A**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/19/19 18:11**	**190319L027**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 17 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	107	80-128	
1,2-Dichloroethane-d4	101	80-129	
Toluene-d8	97	80-120	

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

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Analytical Report

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: SDSU Mission Valley / SD605

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-28330**	**N/A**	**Aqueous**	**GC/MS V V**	**03/20/19**	**03/20/19 14:13**	**190320L052**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	20	1.00	
Benzene	ND	1.0	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	2.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	50	1.00	
2-Butanone	ND	20	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	2.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 20 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	2.0	1.00	
1,1,2,2-Tetrachloroethane	ND	10	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	2.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	77-120	

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

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Analytical Report

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: SDSU Mission Valley / SD605		Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	94	80-128	
1,2-Dichloroethane-d4	94	80-129	
Toluene-d8	106	80-120	

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

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
R-86 AS	**Sample**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 10:35**	**190318S020**
R-86 AS	**Matrix Spike**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 11:09**	**190318S020**
R-86 AS	**Matrix Spike Duplicate**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 11:44**	**190318S020**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	ND	2000	1611	81	1658	83	68-122	3	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: SDSU Mission Valley / SD605			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-03-0910-9	**Sample**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/19/19 18:37**	**190319S009**
19-03-0910-9	**Matrix Spike**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/20/19 02:04**	**190319S009**
19-03-0910-9	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/20/19 02:30**	**190319S009**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acetone	ND	50.00	49.97	100	70.94	142	40-140	35	0-20	3,4
Benzene	ND	50.00	53.05	106	54.95	110	80-120	4	0-20	
Bromobenzene	ND	50.00	53.36	107	54.38	109	75-125	2	0-20	
Bromochloromethane	ND	50.00	52.16	104	52.71	105	65-135	1	0-20	
Bromodichloromethane	ND	50.00	56.75	114	56.47	113	75-120	1	0-20	
Bromoform	ND	50.00	53.71	107	55.56	111	70-130	3	0-20	
Bromomethane	ND	50.00	60.12	120	57.28	115	30-145	5	0-20	
2-Butanone	ND	50.00	46.19	92	47.68	95	30-150	3	0-20	
n-Butylbenzene	ND	50.00	50.05	100	51.93	104	70-135	4	0-20	
sec-Butylbenzene	ND	50.00	53.42	107	55.17	110	70-125	3	0-20	
tert-Butylbenzene	ND	50.00	53.03	106	55.74	111	70-130	5	0-20	
Carbon Disulfide	ND	50.00	52.84	106	79.75	160	35-160	41	0-20	4
Carbon Tetrachloride	ND	50.00	55.95	112	58.19	116	65-140	4	0-20	
Chlorobenzene	ND	50.00	51.58	103	52.90	106	80-120	3	0-20	
Chloroethane	ND	50.00	57.38	115	58.08	116	60-135	1	0-20	
Chloroform	ND	50.00	54.15	108	56.09	112	65-135	4	0-20	
Chloromethane	ND	50.00	51.91	104	56.38	113	40-125	8	0-20	
2-Chlorotoluene	ND	50.00	54.49	109	55.70	111	75-125	2	0-20	
4-Chlorotoluene	ND	50.00	51.43	103	53.79	108	75-130	4	0-20	
Dibromochloromethane	ND	50.00	55.59	111	55.38	111	60-135	0	0-20	
1,2-Dibromo-3-Chloropropane	ND	50.00	49.12	98	51.74	103	50-130	5	0-20	
1,2-Dibromoethane	ND	50.00	51.03	102	50.93	102	80-120	0	0-20	
Dibromomethane	ND	50.00	58.64	117	58.54	117	75-125	0	0-20	
1,2-Dichlorobenzene	ND	50.00	53.10	106	54.44	109	70-120	3	0-20	
1,3-Dichlorobenzene	ND	50.00	52.46	105	53.62	107	75-125	2	0-20	
1,4-Dichlorobenzene	ND	50.00	48.34	97	49.73	99	75-125	3	0-20	
Dichlorodifluoromethane	ND	50.00	51.42	103	49.71	99	30-155	3	0-20	
1,1-Dichloroethane	ND	50.00	44.01	88	46.22	92	70-135	5	0-20	
1,2-Dichloroethane	ND	50.00	56.14	112	55.76	112	70-130	1	0-20	
1,1-Dichloroethene	ND	50.00	49.92	100	72.57	145	70-130	37	0-20	3,4
c-1,2-Dichloroethene	ND	50.00	55.86	112	57.10	114	70-125	2	0-20	
t-1,2-Dichloroethene	ND	50.00	52.08	104	54.86	110	60-140	5	0-20	
1,2-Dichloropropane	ND	50.00	50.72	101	51.37	103	75-125	1	0-20	
1,3-Dichloropropane	ND	50.00	53.15	106	52.85	106	75-125	1	0-20	
2,2-Dichloropropane	ND	50.00	43.49	87	44.93	90	70-135	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: SDSU Mission Valley / SD605		Page 3 of 3

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
1,1-Dichloropropene	ND	50.00	51.45	103	54.63	109	75-130	6	0-20	
c-1,3-Dichloropropene	ND	50.00	47.56	95	49.73	99	70-130	4	0-20	
t-1,3-Dichloropropene	ND	50.00	46.08	92	48.08	96	55-140	4	0-20	
Ethylbenzene	ND	50.00	55.11	110	56.42	113	75-125	2	0-20	
2-Hexanone	ND	50.00	47.81	96	47.69	95	55-130	0	0-20	
Isopropylbenzene	ND	50.00	57.51	115	58.75	117	75-125	2	0-20	
p-Isopropyltoluene	ND	50.00	53.53	107	55.37	111	75-130	3	0-20	
Methylene Chloride	ND	50.00	50.17	100	51.34	103	55-140	2	0-20	
4-Methyl-2-Pentanone	ND	50.00	46.62	93	45.68	91	60-135	2	0-20	
Naphthalene	ND	50.00	47.40	95	48.80	98	55-140	3	0-20	
n-Propylbenzene	ND	50.00	53.19	106	53.59	107	70-130	1	0-20	
Styrene	ND	50.00	51.74	103	52.40	105	65-135	1	0-20	
1,1,1,2-Tetrachloroethane	ND	50.00	56.87	114	57.34	115	80-130	1	0-20	
1,1,2,2-Tetrachloroethane	ND	50.00	47.04	94	47.66	95	65-130	1	0-20	
Tetrachloroethene	ND	50.00	53.95	108	55.28	111	45-150	2	0-20	
Toluene	ND	50.00	54.81	110	55.80	112	75-120	2	0-20	
1,2,3-Trichlorobenzene	ND	50.00	50.92	102	51.79	104	55-140	2	0-20	
1,2,4-Trichlorobenzene	ND	50.00	48.13	96	50.66	101	65-135	5	0-20	
1,1,1-Trichloroethane	ND	50.00	56.19	112	57.90	116	65-130	3	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50.00	41.99	84	58.96	118	80-130	34	0-20	4
1,1,2-Trichloroethane	ND	50.00	52.48	105	53.10	106	75-125	1	0-20	
Trichloroethene	ND	50.00	54.56	109	56.43	113	70-125	3	0-20	
Trichlorofluoromethane	ND	50.00	51.22	102	50.92	102	60-145	1	0-20	
1,2,3-Trichloropropane	ND	50.00	49.17	98	49.05	98	75-125	0	0-20	
1,2,4-Trimethylbenzene	ND	50.00	51.65	103	53.59	107	75-130	4	0-20	
1,3,5-Trimethylbenzene	ND	50.00	56.33	113	57.84	116	75-130	3	0-20	
Vinyl Acetate	ND	50.00	44.16	88	45.06	90	80-120	2	0-20	
Vinyl Chloride	ND	50.00	51.71	103	51.84	104	50-145	0	0-20	
p/m-Xylene	ND	100.0	110.9	111	114.1	114	75-130	3	0-20	
o-Xylene	ND	50.00	57.81	116	58.71	117	80-120	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	41.57	83	43.79	88	65-125	5	0-20	
Tert-Butyl Alcohol (TBA)	ND	250.0	304.0	122	263.8	106	46-154	14	0-35	
Diisopropyl Ether (DIPE)	ND	50.00	49.53	99	51.33	103	81-123	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	43.43	87	45.20	90	74-122	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	50.42	101	52.08	104	76-124	3	0-20	
Ethanol	ND	500.0	543.6	109	543.1	109	60-138	0	0-35	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received: 03/12/19
370 Amapola Avenue, Suite 212	Work Order: 19-03-0871
Torrance, CA 90501-7243	Preparation: EPA 3510C
	Method: EPA 8015B (M)
Project: SDSU Mission Valley / SD605	Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-542-395	**LCS**	**Aqueous**	**GC 50**	**03/13/19**	**03/15/19 21:14**	**190313B05A**
099-15-542-395	**LCSD**	**Aqueous**	**GC 50**	**03/13/19**	**03/15/19 21:34**	**190313B05A**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1932	97	1978	99	69-123	2	0-30	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8015B (M)
Project: SDSU Mission Valley / SD605			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-13-047-744	**LCS**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 07:40**	**190318L052**
099-13-047-744	**LCSD**	**Aqueous**	**GC 42**	**03/19/19**	**03/19/19 08:15**	**190318L052**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
GRO (C4-C12) Total	2000	1717	86	1704	85	78-120	1	0-25	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: SDSU Mission Valley / SD605			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-001-28304	**LCS**	**Aqueous**	**GC/MS Z**	**03/19/19**	**03/19/19 16:48**	**190319L027**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acetone	50.00	62.40	125	53-137	39-151	
Benzene	50.00	52.98	106	79-121	72-128	
Bromobenzene	50.00	53.59	107	80-120	73-127	
Bromochloromethane	50.00	49.70	99	80-122	73-129	
Bromodichloromethane	50.00	54.28	109	80-124	73-131	
Bromoform	50.00	55.43	111	73-127	64-136	
Bromomethane	50.00	50.57	101	50-150	33-167	
2-Butanone	50.00	47.54	95	60-126	49-137	
n-Butylbenzene	50.00	51.59	103	72-138	61-149	
sec-Butylbenzene	50.00	54.66	109	77-131	68-140	
tert-Butylbenzene	50.00	53.79	108	80-125	72-132	
Carbon Disulfide	50.00	53.54	107	50-150	33-167	
Carbon Tetrachloride	50.00	55.38	111	65-143	52-156	
Chlorobenzene	50.00	51.52	103	80-120	73-127	
Chloroethane	50.00	52.42	105	62-128	51-139	
Chloroform	50.00	52.83	106	80-120	73-127	
Chloromethane	50.00	53.47	107	43-133	28-148	
2-Chlorotoluene	50.00	54.96	110	80-121	73-128	
4-Chlorotoluene	50.00	53.09	106	80-120	73-127	
Dibromochloromethane	50.00	55.56	111	80-123	73-130	
1,2-Dibromo-3-Chloropropane	50.00	52.71	105	66-126	56-136	
1,2-Dibromoethane	50.00	51.45	103	80-120	73-127	
Dibromomethane	50.00	56.71	113	80-120	73-127	
1,2-Dichlorobenzene	50.00	54.07	108	80-120	73-127	
1,3-Dichlorobenzene	50.00	53.44	107	80-120	73-127	
1,4-Dichlorobenzene	50.00	48.94	98	80-120	73-127	
Dichlorodifluoromethane	50.00	56.85	114	50-150	33-167	
1,1-Dichloroethane	50.00	45.09	90	72-126	63-135	
1,2-Dichloroethane	50.00	53.35	107	76-120	69-127	
1,1-Dichloroethene	50.00	68.52	137	66-132	55-143	ME
c-1,2-Dichloroethene	50.00	55.22	110	78-120	71-127	
t-1,2-Dichloroethene	50.00	52.24	104	66-132	55-143	
1,2-Dichloropropane	50.00	50.70	101	80-120	73-127	
1,3-Dichloropropane	50.00	53.31	107	80-120	73-127	
2,2-Dichloropropane	50.00	52.54	105	50-150	33-167	
1,1-Dichloropropene	50.00	53.45	107	75-123	67-131	
c-1,3-Dichloropropene	50.00	50.51	101	77-131	68-140	
t-1,3-Dichloropropene	50.00	49.04	98	76-136	66-146	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: SDSU Mission Valley / SD605			Page 4 of 7

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Ethylbenzene	50.00	55.24	110	80-120	73-127	
2-Hexanone	50.00	47.71	95	63-123	53-133	
Isopropylbenzene	50.00	57.57	115	80-128	72-136	
p-Isopropyltoluene	50.00	55.66	111	73-133	63-143	
Methylene Chloride	50.00	49.79	100	61-133	49-145	
4-Methyl-2-Pentanone	50.00	47.22	94	65-125	55-135	
Naphthalene	50.00	50.59	101	69-129	59-139	
n-Propylbenzene	50.00	52.20	104	80-128	72-136	
Styrene	50.00	52.86	106	80-126	72-134	
1,1,1,2-Tetrachloroethane	50.00	56.51	113	80-129	72-137	
1,1,2,2-Tetrachloroethane	50.00	48.46	97	74-122	66-130	
Tetrachloroethene	50.00	53.73	107	55-139	41-153	
Toluene	50.00	54.86	110	80-120	73-127	
1,2,3-Trichlorobenzene	50.00	52.26	105	72-132	62-142	
1,2,4-Trichlorobenzene	50.00	51.57	103	74-134	64-144	
1,1,1-Trichloroethane	50.00	55.66	111	76-124	68-132	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	65.19	130	54-150	38-166	
1,1,2-Trichloroethane	50.00	52.59	105	80-120	73-127	
Trichloroethene	50.00	54.01	108	79-121	72-128	
Trichlorofluoromethane	50.00	51.06	102	72-132	62-142	
1,2,3-Trichloropropane	50.00	51.06	102	75-123	67-131	
1,2,4-Trimethylbenzene	50.00	52.35	105	74-128	65-137	
1,3,5-Trimethylbenzene	50.00	56.19	112	77-131	68-140	
Vinyl Acetate	50.00	49.64	99	50-150	33-167	
Vinyl Chloride	50.00	47.65	95	63-129	52-140	
p/m-Xylene	100.0	111.7	112	80-122	73-129	
o-Xylene	50.00	57.77	116	80-128	72-136	
Methyl-t-Butyl Ether (MTBE)	50.00	44.37	89	69-123	60-132	
Tert-Butyl Alcohol (TBA)	250.0	261.0	104	80-124	73-131	
Diisopropyl Ether (DIPE)	50.00	49.98	100	79-121	72-128	
Ethyl-t-Butyl Ether (ETBE)	50.00	45.21	90	71-125	62-134	
Tert-Amyl-Methyl Ether (TAME)	50.00	52.55	105	70-124	61-133	
Ethanol	500.0	499.6	100	53-149	37-165	

Total number of LCS compounds: 71
Total number of ME compounds: 1
Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.
370 Amapola Avenue, Suite 212
Torrance, CA 90501-7243

Date Received: 03/12/19
Work Order: 19-03-0871
Preparation: EPA 5030C
Method: EPA 8260B

Project: SDSU Mission Valley / SD605

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-28330	**LCS**	**Aqueous**	**GC/MS V V**	**03/20/19**	**03/20/19 11:59**	**190320L052**
099-14-001-28330	**LCSD**	**Aqueous**	**GC/MS V V**	**03/20/19**	**03/20/19 12:24**	**190320L052**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Acetone	50.00	54.83	110	53.54	107	53-137	39-151	2	0-21	
Benzene	50.00	52.16	104	49.87	100	79-121	72-128	4	0-20	
Bromobenzene	50.00	52.13	104	51.11	102	80-120	73-127	2	0-20	
Bromochloromethane	50.00	47.42	95	45.88	92	80-122	73-129	3	0-20	
Bromodichloromethane	50.00	52.55	105	51.58	103	80-124	73-131	2	0-20	
Bromoform	50.00	54.59	109	52.85	106	73-127	64-136	3	0-20	
Bromomethane	50.00	55.42	111	54.87	110	50-150	33-167	1	0-26	
2-Butanone	50.00	49.34	99	49.79	100	60-126	49-137	1	0-20	
n-Butylbenzene	50.00	60.39	121	56.61	113	72-138	61-149	6	0-20	
sec-Butylbenzene	50.00	58.74	117	55.31	111	77-131	68-140	6	0-20	
tert-Butylbenzene	50.00	58.38	117	53.82	108	80-125	72-132	8	0-20	
Carbon Disulfide	50.00	46.02	92	43.34	87	50-150	33-167	6	0-22	
Carbon Tetrachloride	50.00	50.34	101	46.95	94	65-143	52-156	7	0-20	
Chlorobenzene	50.00	52.47	105	51.40	103	80-120	73-127	2	0-20	
Chloroethane	50.00	55.91	112	52.84	106	62-128	51-139	6	0-20	
Chloroform	50.00	49.56	99	47.80	96	80-120	73-127	4	0-20	
Chloromethane	50.00	52.57	105	49.53	99	43-133	28-148	6	0-20	
2-Chlorotoluene	50.00	53.82	108	51.44	103	80-121	73-128	5	0-20	
4-Chlorotoluene	50.00	53.87	108	51.46	103	80-120	73-127	5	0-20	
Dibromochloromethane	50.00	53.29	107	51.95	104	80-123	73-130	3	0-20	
1,2-Dibromo-3-Chloropropane	50.00	61.15	122	61.91	124	66-126	56-136	1	0-20	
1,2-Dibromoethane	50.00	52.90	106	52.00	104	80-120	73-127	2	0-20	
Dibromomethane	50.00	51.70	103	50.47	101	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	54.71	109	52.67	105	80-120	73-127	4	0-20	
1,3-Dichlorobenzene	50.00	54.13	108	51.55	103	80-120	73-127	5	0-20	
1,4-Dichlorobenzene	50.00	52.74	105	50.44	101	80-120	73-127	4	0-20	
Dichlorodifluoromethane	50.00	65.10	130	60.76	122	50-150	33-167	7	0-30	
1,1-Dichloroethane	50.00	42.34	85	39.96	80	72-126	63-135	6	0-20	
1,2-Dichloroethane	50.00	46.76	94	46.04	92	76-120	69-127	2	0-20	
1,1-Dichloroethene	50.00	48.13	96	45.43	91	66-132	55-143	6	0-20	
c-1,2-Dichloroethene	50.00	49.44	99	47.44	95	78-120	71-127	4	0-20	
t-1,2-Dichloroethene	50.00	47.45	95	45.33	91	66-132	55-143	5	0-20	
1,2-Dichloropropane	50.00	52.18	104	50.35	101	80-120	73-127	4	0-20	
1,3-Dichloropropane	50.00	52.66	105	52.59	105	80-120	73-127	0	0-20	
2,2-Dichloropropane	50.00	51.74	103	49.33	99	50-150	33-167	5	0-20	
1,1-Dichloropropene	50.00	50.39	101	47.97	96	75-123	67-131	5	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.		Date Received:	03/12/19
370 Amapola Avenue, Suite 212		Work Order:	19-03-0871
Torrance, CA 90501-7243		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: SDSU Mission Valley / SD605			Page 6 of 7

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
c-1,3-Dichloropropene	50.00	53.33	107	51.04	102	77-131	68-140	4	0-20	
t-1,3-Dichloropropene	50.00	52.46	105	51.68	103	76-136	66-146	2	0-20	
Ethylbenzene	50.00	54.60	109	52.75	105	80-120	73-127	3	0-20	
2-Hexanone	50.00	57.67	115	56.04	112	63-123	53-133	3	0-20	
Isopropylbenzene	50.00	57.33	115	55.03	110	80-128	72-136	4	0-20	
p-Isopropyltoluene	50.00	57.89	116	55.28	111	73-133	63-143	5	0-20	
Methylene Chloride	50.00	48.36	97	46.37	93	61-133	49-145	4	0-27	
4-Methyl-2-Pentanone	50.00	53.70	107	54.19	108	65-125	55-135	1	0-20	
Naphthalene	50.00	58.23	116	57.49	115	69-129	59-139	1	0-20	
n-Propylbenzene	50.00	57.31	115	54.85	110	80-128	72-136	4	0-20	
Styrene	50.00	54.58	109	52.61	105	80-126	72-134	4	0-20	
1,1,1,2-Tetrachloroethane	50.00	55.82	112	55.58	111	80-129	72-137	0	0-20	
1,1,2,2-Tetrachloroethane	50.00	57.60	115	56.82	114	74-122	66-130	1	0-20	
Tetrachloroethene	50.00	54.39	109	52.52	105	55-139	41-153	3	0-23	
Toluene	50.00	52.79	106	50.63	101	80-120	73-127	4	0-20	
1,2,3-Trichlorobenzene	50.00	55.93	112	55.60	111	72-132	62-142	1	0-20	
1,2,4-Trichlorobenzene	50.00	58.08	116	58.33	117	74-134	64-144	0	0-20	
1,1,1-Trichloroethane	50.00	48.90	98	46.60	93	76-124	68-132	5	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	45.53	91	42.93	86	54-150	38-166	6	0-30	
1,1,2-Trichloroethane	50.00	53.32	107	53.95	108	80-120	73-127	1	0-20	
Trichloroethene	50.00	51.04	102	48.44	97	79-121	72-128	5	0-20	
Trichlorofluoromethane	50.00	53.19	106	50.20	100	72-132	62-142	6	0-20	
1,2,3-Trichloropropane	50.00	55.70	111	55.64	111	75-123	67-131	0	0-20	
1,2,4-Trimethylbenzene	50.00	56.31	113	53.68	107	74-128	65-137	5	0-20	
1,3,5-Trimethylbenzene	50.00	55.84	112	54.06	108	77-131	68-140	3	0-20	
Vinyl Acetate	50.00	50.03	100	49.32	99	50-150	33-167	1	0-20	
Vinyl Chloride	50.00	59.60	119	56.34	113	63-129	52-140	6	0-20	
p/m-Xylene	100.0	108.8	109	104.5	104	80-122	73-129	4	0-20	
o-Xylene	50.00	54.62	109	52.70	105	80-128	72-136	4	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	40.57	81	39.43	79	69-123	60-132	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	264.1	106	258.1	103	80-124	73-131	2	0-20	
Diisopropyl Ether (DIPE)	50.00	48.77	98	47.52	95	79-121	72-128	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	42.83	86	42.33	85	71-125	62-134	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.72	101	49.94	100	70-124	61-133	2	0-20	
Ethanol	500.0	537.7	108	524.6	105	53-149	37-165	2	0-24	

Total number of LCS compounds: 71
Total number of ME compounds: 0

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Group Delta Consultants, Inc.	Date Received:	03/12/19
370 Amapola Avenue, Suite 212	Work Order:	19-03-0871
Torrance, CA 90501-7243	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: SDSU Mission Valley / SD605		Page 7 of 7

Total number of ME compounds allowed: 4
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-03-0871 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3510C	972	GC 50	1
EPA 8015B (M)	EPA 5030C	1161	GC 42	2
EPA 8260B	EPA 5030C	1126	GC/MS Z	2
EPA 8260B	EPA 5030C	1126	GC/MS V V	2

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Glossary of Terms and Qualifiers

Work Order: 19-03-0871 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/PDSD 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.
CI	See case narrative.
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.

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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.

CHAIN-OF-CUSTODY RECORD

DATE: 3/12/19
PAGE: 1 OF 1

WO NO. / LAB USE ONLY: **19-03-0871**

LABORATORY CLIENT: GROUP DELTA CONSULTANTS
ADDRESS: 370 AMAPOLA ST Suite 212
CITY: Torrance STATE: CA ZIP: 90501
TEL: E-MAIL: alexs@groupdelta.com

CLIENT PROJECT NAME / NO.: SDSU - Mission Valley
P.O. NO.: SD 605
PROJECT CONTACT: ALEX SANTINI
LAB CONTACT OR QUOTE NO.:
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) EDWIN

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:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☒ TPH(g) ☐ GRO	☒ TPH(d) ☐ 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
1	EQUIP. BLANK	3/12/19	0900	WQ	6	✓	✓		✓	✓				✓	✓							
2	T.B	3/12/19	0910	WQ	2		✓		✓					✓								
3	R-86 AS	3/12/19	1255	WQ	6	✓	✓		✓	✓				✓	✓							
4	R-33 AS	3/12/19	1355	WQ	6	✓	✓		✓	✓				✓	✓							
5	R-9 AS	3/12/19	1425	WQ	6	✓	✓		✓	✓				✓	✓							

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 03/12/19	Time: 1510
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 3/12/19	Time: 1945
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

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WORK ORDER NUMBER: 19-03-0871

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: GROUP DELTA

DATE: 03/12/2019

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

Thermometer ID: SC6 (CF: -0.5°C); Temperature (w/o CF): 3.9 °C (w/ CF): 3.4 °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

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 671

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 671

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: 300

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: 190301A)

Aqueous: ☐ VOA ☑ VOA**h** ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☑ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, Labeled/Checked by: 300

s = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH Reviewed by: JBL

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Soil Gas Analytical Laboratory Reports

March 18, 2019

Alex Santini
Group Delta
9245 Activity Rd.
San Diego, CA 92126

RE: 9449 Friars Road San Diego, CA. 92108

Enclosed are the results of analyses for soil gas samples received by Environmental Support Technologies laboratory on 03/13/19 15:47. The analyses were performed according to the prescribed method as outlined by EPA 8260B. A shut in test was performed, leak test was performed, equipment blank was run, and selected purge volume was 3PV. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

Ashley Flores

Ashley Flores
Project Manager

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 2772, 2773, and 2767.

8 Goodyear, Suite 125, Irvine, California 92618
Telephone: (949) 679-9500 Fax: (949) 679-9501

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
Equipment Blank	3C91301-01	Air	13-Mar-19 08:15	13-Mar-19 08:28
Material Blank	3C91301-02	Air	13-Mar-19 08:40	13-Mar-19 08:58
SG1-5	3C91301-03	Air	13-Mar-19 09:10	13-Mar-19 09:26
SG2-5	3C91301-04	Air	13-Mar-19 10:05	13-Mar-19 10:20
SG3-5	3C91301-05	Air	13-Mar-19 10:35	13-Mar-19 10:47
SG4-5	3C91301-06	Air	13-Mar-19 11:00	13-Mar-19 11:14
SG18-5	3C91301-07	Air	13-Mar-19 11:25	13-Mar-19 11:41
SG9-5	3C91301-08	Air	13-Mar-19 11:55	13-Mar-19 12:08
SG10-5	3C91301-09	Air	13-Mar-19 12:20	13-Mar-19 12:35
SG11-5	3C91301-10	Air	13-Mar-19 12:50	13-Mar-19 13:02
SG13-5	3C91301-11	Air	13-Mar-19 13:15	13-Mar-19 13:29
SG15-5	3C91301-12	Air	13-Mar-19 13:40	13-Mar-19 13:56
SG17-5	3C91301-13	Air	13-Mar-19 14:10	13-Mar-19 14:24
SG19-5	3C91301-14	Air	13-Mar-19 14:25	13-Mar-19 14:36
SG19-5-DUP	3C91301-15	Air	13-Mar-19 14:50	13-Mar-19 15:03
SG20-10	3C91301-16	Air	13-Mar-19 15:15	13-Mar-19 15:30
SG20-10-DUP	3C91301-17	Air	13-Mar-19 15:45	13-Mar-19 15:57
SG21-5	3C91301-18	Air	13-Mar-19 16:10	13-Mar-19 16:25

8 Goodyear, Suite 125, Irvine, California 92618
Telephone: (949) 679-9500 Fax: (949) 679-9501

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3C91301-01) Air Sampled: 03/13/19 08:15 Analyzed: 03/13/19 08:28									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3C91301-01) Air	**Sampled: 03/13/19 08:15**	**Analyzed: 03/13/19 08:28**							
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	ND	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*92.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*75-125*	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Material Blank (3C91301-02) Air Sampled: 03/13/19 08:40 Analyzed: 03/13/19 08:58									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Material Blank (3C91301-02) Air	**Sampled: 03/13/19 08:40**	**Analyzed: 03/13/19 08:58**							
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	ND	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*75-125*	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG1-5 (3C91301-03) Air Sampled: 03/13/19 09:10 Analyzed: 03/13/19 09:26									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**27**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**12**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**29**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG1-5 (3C91301-03) Air Sampled: 03/13/19 09:10 Analyzed: 03/13/19 09:26									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**78**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**330**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**9.0**	5.0	"	"	"	"	"	"	
ortho-Xylene	**99**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**5.2**	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**330**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**39000**	50000	"	1	"	"	"	GROs by GC/MS	J
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG2-5 (3C91301-04) Air Sampled: 03/13/19 10:05 Analyzed: 03/13/19 10:20									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**15**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**4.8**	5.0	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**79**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	**78**	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**310**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG2-5 (3C91301-04) Air Sampled: 03/13/19 10:05 Analyzed: 03/13/19 10:20									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**46**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**160**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**5.0**	5.0	"	"	"	"	"	"	
ortho-Xylene	**43**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**1.8**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**300**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*95.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**270000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG3-5 (3C91301-05) Air Sampled: 03/13/19 10:35 Analyzed: 03/13/19 10:47									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**8.2**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**7.6**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**22**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG3-5 (3C91301-05) Air Sampled: 03/13/19 10:35 Analyzed: 03/13/19 10:47									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**9.0**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**35**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**12**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**36**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*88.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**170000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	**460**	1000	"	"	"	"	"	"	J
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG4-5 (3C91301-06) Air Sampled: 03/13/19 11:00 Analyzed: 03/13/19 11:14									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**12**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**30**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**150**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG4-5 (3C91301-06) Air Sampled: 03/13/19 11:00 Analyzed: 03/13/19 11:14									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**21**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**80**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**23**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**3.0**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**140**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*87.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**200000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	**250**	1000	"	"	"	"	"	"	J
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG18-5 (3C91301-07) Air Sampled: 03/13/19 11:25 Analyzed: 03/13/19 11:41									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**21**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**20**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**120**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG18-5 (3C91301-07) Air Sampled: 03/13/19 11:25 Analyzed: 03/13/19 11:41									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**57**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**220**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**7.4**	5.0	"	"	"	"	"	"	
ortho-Xylene	**69**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**3.2**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**410**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*86.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**140000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG9-5 (3C91301-08) Air Sampled: 03/13/19 11:55 Analyzed: 03/13/19 12:08									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**22**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**7.6**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**17**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG9-5 (3C91301-08) Air Sampled: 03/13/19 11:55 Analyzed: 03/13/19 12:08									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**51**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**230**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**7.0**	5.0	"	"	"	"	"	"	
ortho-Xylene	**64**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**2.8**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	**6.6**	5.0	"	"	"	"	"	"	
Toluene	**180**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*89.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**45000**	50000	"	1	"	"	"	GROs by GC/MS	J
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG10-5 (3C91301-09) Air Sampled: 03/13/19 12:20 Analyzed: 03/13/19 12:35									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**7.6**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**2.8**	5.0	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**62**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**500**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG10-5 (3C91301-09) Air Sampled: 03/13/19 12:20 Analyzed: 03/13/19 12:35									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**32**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**100**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**2.8**	5.0	"	"	"	"	"	"	J
ortho-Xylene	**30**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	**5.6**	5.0	"	"	"	"	"	"	
Toluene	**230**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*75-125*	"	"	"	"	
Gasoline Range Hydrocarbons	**490000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG11-5 (3C91301-10) Air Sampled: 03/13/19 12:50 Analyzed: 03/13/19 13:02									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**5.2**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG11-5 (3C91301-10) Air Sampled: 03/13/19 12:50 Analyzed: 03/13/19 13:02									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**6.0**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**33**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**8.4**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**17**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.8 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*96.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG13-5 (3C91301-11) Air Sampled: 03/13/19 13:15 Analyzed: 03/13/19 13:29									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG13-5 (3C91301-11) Air Sampled: 03/13/19 13:15 Analyzed: 03/13/19 13:29									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**6.4**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**22**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**5.6**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**20**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**57000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG15-5 (3C91301-12) Air Sampled: 03/13/19 13:40 Analyzed: 03/13/19 13:56									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**28**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG15-5 (3C91301-12) Air Sampled: 03/13/19 13:40 Analyzed: 03/13/19 13:56									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**7.8**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**25**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**8.8**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**60**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**160000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG17-5 (3C91301-13) Air Sampled: 03/13/19 14:10 Analyzed: 03/13/19 14:24									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**3.0**	5.0	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**6.4**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG17-5 (3C91301-13) Air Sampled: 03/13/19 14:10 Analyzed: 03/13/19 14:24									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**14**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**5.4**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**25**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**53000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG19-5 (3C91301-14) Air Sampled: 03/13/19 14:25 Analyzed: 03/13/19 14:36									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2.2**	5.0	"	"	"	"	"	"	J
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**3.0**	5.0	"	"	"	"	"	"	J
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG19-5 (3C91301-14) Air Sampled: 03/13/19 14:25 Analyzed: 03/13/19 14:36									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**16**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**22**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.6 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG19-5-DUP (3C91301-15) Air Sampled: 03/13/19 14:50 Analyzed: 03/13/19 15:03									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2.4**	5.0	"	"	"	"	"	"	J
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**5.0**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
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Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG19-5-DUP (3C91301-15) Air Sampled: 03/13/19 14:50 Analyzed: 03/13/19 15:03									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**16**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**23**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-10 (3C91301-16) Air Sampled: 03/13/19 15:15 Analyzed: 03/13/19 15:30									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**80**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**26**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**75**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-10 (3C91301-16) Air Sampled: 03/13/19 15:15 Analyzed: 03/13/19 15:30									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**100**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	**7.8**	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**390**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**18**	5.0	"	"	"	"	"	"	
ortho-Xylene	**140**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**2.0**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**520**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*88.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**64000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-10-DUP (3C91301-17) Air Sampled: 03/13/19 15:45 Analyzed: 03/13/19 15:57									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**78**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**22**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**70**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-10-DUP (3C91301-17) Air Sampled: 03/13/19 15:45 Analyzed: 03/13/19 15:57									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**100**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	**5.2**	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**390**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**18**	5.0	"	"	"	"	"	"	
ortho-Xylene	**120**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**4.4**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**520**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*114 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*88.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	
Gasoline Range Hydrocarbons	**74000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG21-5 (3C91301-18) Air Sampled: 03/13/19 16:10 Analyzed: 03/13/19 16:25									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**29**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**7.6**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**12**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 18-Mar-19 16:10

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG21-5 (3C91301-18) Air Sampled: 03/13/19 16:10 Analyzed: 03/13/19 16:25									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1302	03/13/19	03/13/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**24**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**100**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**4.4**	5.0	"	"	"	"	"	"	J
ortho-Xylene	**39**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**99**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*88.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**98000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
Blank (39C1302-BLK1)				Prepared & Analyzed: 03/13/19						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air							
Gasoline Range Hydrocarbons	ND	50000	"							
Diisopropyl Ether (DIPE)	ND	1000	"							
1,1,1-Trichloroethane	ND	5.0	"							
Ethyl tert-butyl ether (EtBE)	ND	1000	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Methyl tert-butyl ether (MtBE)	ND	1000	"							
1,1,2-Trichloroethane	ND	5.0	"							
tert-Amyl methyl ether (TAME)	ND	1000	"							
1,1,2-Trichloro-trifluoroethane	ND	5.0	"							
tert-Butanol (TBA)	ND	20000	"							
1,1-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	10	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	45	"							
1,2-Dibromoethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dichloropropane	ND	10	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
2,2-Dichloropropane	ND	20	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	90	"							

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
Blank (39C1302-BLK1)				Prepared & Analyzed: 03/13/19						
Bromodichloromethane	ND	5.0	ug/m³ Air							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
Carbon disulfide	ND	5.0	"							
Carbon tetrachloride	ND	20	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
cis-1,2-Dichloroethene	ND	10	"							
cis-1,3-Dichloropropene	ND	20	"							
Dibromochloromethane	ND	5.0	"							
Dibromomethane	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
Ethylbenzene	ND	10	"							
Hexachlorobutadiene	ND	20	"							
Isopropylbenzene	ND	5.0	"							
meta- and para-Xylenes	ND	5.0	"							
Methylene Chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
ortho-Xylene	ND	5.0	"							
p-Isopropyltoluene	ND	10	"							
sec-Butylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	10	"							
trans-1,3-Dichloropropene	ND	20	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
Blank (39C1302-BLK1)				Prepared & Analyzed: 03/13/19						
Vinyl Chloride	ND	5.0	ug/m³ Air							
2-Propanol	ND	290	"							
Surrogate: Dibromofluoromethane	*2500*		*"*	*2500*		*100*	*75-125*			
Surrogate: Toluene-d8	*2300*		*"*	*2500*		*92.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2360*		*"*	*2500*		*94.4*	*75-125*			
LCS (39C1302-BS1)				Prepared & Analyzed: 03/13/19						
Diisopropyl Ether (DIPE)	510	1000	ug/m³ Air	500		102	70-137			J
1,1,1,2-Tetrachloroethane	510	5.0	"	500		102	75-136			
Ethyl tert-butyl ether (EtBE)	530	1000	"	500		106	70-130			J
1,1,1-Trichloroethane	560	5.0	"	500		112	73-134			
1,1,2,2-Tetrachloroethane	560	5.0	"	500		112	56-149			
Methyl tert-butyl ether (MtBE)	1160	1000	"	1000		116	70-130			
tert-Amyl methyl ether (TAME)	520	1000	"	500		104	70-125			J
1,1,2-Trichloroethane	520	5.0	"	500		104	67-137			
tert-Butanol (TBA)	4550	20000	"	5000		91.0	61-159			J
1,1,2-Trichloro-trifluoroethane	480	5.0	"	500		96.0	83-125			
1,1-Dichloroethane	550	5.0	"	500		110	80-121			
1,1-Dichloroethene	480	5.0	"	500		96.0	73-137			
1,1-Dichloropropene	500	5.0	"	500		100	77-122			
1,2,3-Trichlorobenzene	470	10	"	500		94.0	67-133			
1,2,3-Trichloropropane	480	5.0	"	500		96.0	56-145			
1,2,4-Trichlorobenzene	480	5.0	"	500		96.0	71-135			
1,2,4-Trimethylbenzene	550	5.0	"	500		110	76-140			
1,2-Dibromo-3-chloropropane	490	45	"	500		98.0	43-158			
1,2-Dibromoethane	550	5.0	"	500		110	80-130			
1,2-Dichlorobenzene	560	5.0	"	500		112	67-139			
1,2-Dichloroethane	520	5.0	"	500		104	75-131			
1,2-Dichloropropane	510	10	"	500		102	62-144			
1,3,5-Trimethylbenzene	550	5.0	"	500		110	78-125			
1,3-Dichlorobenzene	560	5.0	"	500		112	82-120			
1,3-Dichloropropane	540	5.0	"	500		108	61-145			
1,4-Dichlorobenzene	560	5.0	"	500		112	84-120			
2,2-Dichloropropane	520	20	"	500		104	68-134			

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
LCS (39C1302-BS1)				Prepared & Analyzed: 03/13/19						
2-Chlorotoluene	560	5.0	ug/m³ Air	500		112	65-127			
4-Chlorotoluene	510	5.0	"	500		102	65-127			
Benzene	550	5.0	"	500		110	79-118			
Bromobenzene	560	5.0	"	500		112	69-140			
Bromochloromethane	530	90	"	500		106	61-141			
Bromodichloromethane	540	5.0	"	500		108	67-137			
Bromoform	450	5.0	"	500		90.0	57-152			
Bromomethane	500	10	"	500		100	51-148			
Carbon disulfide	460	5.0	"	500		92.0	61-140			
Carbon tetrachloride	490	20	"	500		98.0	74-143			
Chlorobenzene	560	5.0	"	500		112	67-140			
Chloroethane	500	5.0	"	500		100	60-137			
Chloroform	550	5.0	"	500		110	82-140			
Chloromethane	450	10	"	500		90.0	58-139			
cis-1,2-Dichloroethene	520	10	"	500		104	85-116			
cis-1,3-Dichloropropene	450	20	"	500		90.0	66-142			
Dibromochloromethane	470	5.0	"	500		94.0	61-140			
Dibromomethane	540	5.0	"	500		108	66-143			
Dichlorodifluoromethane	450	5.0	"	500		90.0	47-129			
Ethylbenzene	530	10	"	500		106	70-125			
Hexachlorobutadiene	460	20	"	500		92.0	71-145			
Isopropylbenzene	510	5.0	"	500		102	85-116			
meta- and para-Xylenes	1110	5.0	"	1000		111	83-115			
Methylene Chloride	460	5.0	"	500		92.0	81-126			
Naphthalene	510	5.0	"	500		102	56-140			
n-Butylbenzene	540	5.0	"	500		108	60-149			
n-Propylbenzene	530	5.0	"	500		106	77-129			
ortho-Xylene	520	5.0	"	500		104	85-115			
p-Isopropyltoluene	550	10	"	500		110	63-144			
sec-Butylbenzene	550	5.0	"	500		110	68-128			
Styrene	510	5.0	"	500		102	65-142			
tert-Butylbenzene	560	5.0	"	500		112	60-128			
Tetrachloroethene	470	5.0	"	500		94.0	60-144			

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
LCS (39C1302-BS1)				Prepared & Analyzed: 03/13/19						
Toluene	510	5.0	ug/m³ Air	500		102	70-115			
trans-1,2-Dichloroethene	480	10	"	500		96.0	72-133			
trans-1,3-Dichloropropene	510	20	"	500		102	68-140			
Trichloroethene	540	5.0	"	500		108	68-132			
Trichlorofluoromethane	560	5.0	"	500		112	62-144			
Vinyl Chloride	520	5.0	"	500		104	66-137			
Surrogate: Dibromofluoromethane	*12700*		*"*	*12500*		*102*	*75-125*			
Surrogate: Toluene-d8	*11300*		*"*	*12500*		*90.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*12100*		*"*	*12500*		*96.8*	*75-125*			
LCS (39C1302-BS2)				Prepared & Analyzed: 03/13/19						
Gasoline Range Hydrocarbons	280000	50000	ug/m³ Air	250000		112	70-130			
Duplicate (39C1302-DUP1)		**Source: 3C91301-03**		Prepared & Analyzed: 03/13/19						
Gasoline Range Hydrocarbons	38200	50000	ug/m³ Air		39200			2.61	50	J
Diisopropyl Ether (DIPE)	ND	1000	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	5.0	"		ND				50	
1,1,1-Trichloroethane	ND	5.0	"		ND				50	
Ethyl tert-butyl ether (EtBE)	ND	1000	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	5.0	"		ND				50	
Methyl tert-butyl ether (MtBE)	ND	1000	"		ND				20	
1,1,2-Trichloroethane	ND	5.0	"		ND				50	
tert-Amyl methyl ether (TAME)	ND	1000	"		ND				20	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"		ND				50	
tert-Butanol (TBA)	ND	20000	"		ND				20	
1,1-Dichloroethane	ND	5.0	"		ND				50	
1,1-Dichloroethene	ND	5.0	"		ND				50	
1,1-Dichloropropene	ND	5.0	"		ND				50	
1,2,3-Trichlorobenzene	ND	10	"		ND				50	
1,2,3-Trichloropropane	ND	5.0	"		ND				50	
1,2,4-Trichlorobenzene	ND	5.0	"		ND				50	
1,2,4-Trimethylbenzene	36.2	5.0	"		27.0			29.1	50	
1,2-Dibromo-3-chloropropane	ND	45	"		ND				50	
1,2-Dibromoethane	ND	5.0	"		ND				50	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
Duplicate (39C1302-DUP1)	**Source: 3C91301-03**		Prepared & Analyzed: 03/13/19							
1,2-Dichlorobenzene	ND	5.0	ug/m³ Air		ND				50	
1,2-Dichloroethane	ND	5.0	"		ND				50	
1,2-Dichloropropane	ND	10	"		ND				50	
1,3,5-Trimethylbenzene	15.8	5.0	"		12.2			25.7	50	
1,3-Dichlorobenzene	ND	5.0	"		ND				50	
1,3-Dichloropropane	ND	5.0	"		ND				50	
1,4-Dichlorobenzene	ND	5.0	"		ND				50	
2,2-Dichloropropane	ND	20	"		ND				50	
2-Chlorotoluene	ND	5.0	"		ND				50	
4-Chlorotoluene	ND	5.0	"		ND				50	
Benzene	26.6	5.0	"		29.4			10.0	50	
Bromobenzene	ND	5.0	"		ND				50	
Bromochloromethane	ND	90	"		ND				50	
Bromodichloromethane	ND	5.0	"		ND				50	
Bromoform	ND	5.0	"		ND				50	
Bromomethane	ND	10	"		ND				50	
Carbon disulfide	ND	5.0	"		ND				50	
Carbon tetrachloride	ND	20	"		ND				50	
Chlorobenzene	ND	5.0	"		ND				50	
Chloroethane	ND	5.0	"		ND				50	
Chloroform	ND	5.0	"		ND				50	
Chloromethane	ND	10	"		ND				50	
cis-1,2-Dichloroethene	ND	10	"		ND				50	
cis-1,3-Dichloropropene	ND	20	"		ND				50	
Dibromochloromethane	ND	5.0	"		ND				50	
Dibromomethane	ND	5.0	"		ND				50	
Dichlorodifluoromethane	ND	5.0	"		ND				50	
Ethylbenzene	89.4	10	"		77.8			13.9	50	
Hexachlorobutadiene	ND	20	"		ND				50	
Isopropylbenzene	3.40	5.0	"		ND				50	J
meta- and para-Xylenes	358	5.0	"		326			9.41	50	
Methylene Chloride	ND	5.0	"		ND				50	
Naphthalene	ND	5.0	"		ND				50	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1302 - Volatiles										
Duplicate (39C1302-DUP1)	**Source: 3C91301-03**		Prepared & Analyzed: 03/13/19							
n-Butylbenzene	ND	5.0	ug/m³ Air		ND				50	
n-Propylbenzene	13.8	5.0	"		9.00			42.1	50	
ortho-Xylene	107	5.0	"		99.0			7.39	50	
p-Isopropyltoluene	ND	10	"		ND				50	
sec-Butylbenzene	ND	5.0	"		ND				50	
Styrene	6.80	5.0	"		5.20			26.7	50	
tert-Butylbenzene	ND	5.0	"		ND				50	
Tetrachloroethene	ND	5.0	"		ND				50	
Toluene	340	5.0	"		330			2.98	50	
trans-1,2-Dichloroethene	ND	10	"		ND				50	
trans-1,3-Dichloropropene	ND	20	"		ND				50	
Trichloroethene	ND	5.0	"		ND				50	
Trichlorofluoromethane	ND	5.0	"		ND				50	
Vinyl Chloride	ND	5.0	"		ND				50	
2-Propanol	ND	290	"		ND				200	
Surrogate: Dibromofluoromethane	*2360*		*"*	*2500*		*94.4*	*75-125*			
Surrogate: Toluene-d8	*2460*		*"*	*2500*		*98.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2280*		*"*	*2500*		*91.2*	*75-125*			

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	18-Mar-19 16:10

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

March 19, 2019

Alex Santini
Group Delta
9245 Activity Rd.
San Diego, CA 92126

RE: 9449 Friars Road San Diego, CA. 92108

Enclosed are the results of analyses for soil gas samples received by Environmental Support Technologies laboratory on 03/14/19 19:23. The analyses were performed according to the prescribed method as outlined by EPA 8260B. A shut in test was performed, leak test was performed, equipment blank was run, and selected purge volume was 3PV. If you have any questions concerning this report, please feel free to contact Project Manager.

Sincerely,

Ashley Flores

Ashley Flores
Project Manager

Environmental Support Technologies laboratories are certified by the California Department of Health Services (CDHS), Environmental Laboratory Accreditation Program (ELAP) No's. 2772, 2773, and 2767.

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Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Analyzed
Equipment Blank	3C91401-01	Air	14-Mar-19 08:30	14-Mar-19 08:42
Material Blank	3C91401-02	Air	14-Mar-19 08:55	14-Mar-19 09:08
SG16-5	3C91401-03	Air	14-Mar-19 09:20	14-Mar-19 09:35
SG14-5	3C91401-04	Air	14-Mar-19 10:15	14-Mar-19 10:29
SG12-5	3C91401-05	Air	14-Mar-19 10:40	14-Mar-19 10:56
SG12-5-DUP	3C91401-06	Air	14-Mar-19 11:10	14-Mar-19 11:23
SG5-5	3C91401-07	Air	14-Mar-19 11:35	14-Mar-19 11:50
SG6-5	3C91401-08	Air	14-Mar-19 12:05	14-Mar-19 12:18
SG7-5	3C91401-09	Air	14-Mar-19 12:30	14-Mar-19 12:45
SG8-5	3C91401-10	Air	14-Mar-19 13:00	14-Mar-19 13:12
SG20-5	3C91401-11	Air	14-Mar-19 13:25	14-Mar-19 13:39
SG22-5	3C91401-12	Air	14-Mar-19 13:50	14-Mar-19 14:06
SG22-10	3C91401-13	Air	14-Mar-19 14:20	14-Mar-19 14:33
SG23-5	3C91401-14	Air	14-Mar-19 14:45	14-Mar-19 15:00
SG24-5	3C91401-15	Air	14-Mar-19 15:15	14-Mar-19 15:27
SG25-5	3C91401-16	Air	14-Mar-19 15:40	14-Mar-19 15:54
SG26-5	3C91401-17	Air	14-Mar-19 16:10	14-Mar-19 16:21

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3C91401-01) Air Sampled: 03/14/19 08:30 Analyzed: 03/14/19 08:42									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equipment Blank (3C91401-01) Air	**Sampled: 03/14/19 08:30**	**Analyzed: 03/14/19 08:42**							
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	ND	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Material Blank (3C91401-02) Air Sampled: 03/14/19 08:55 Analyzed: 03/14/19 09:08									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Material Blank (3C91401-02) Air	**Sampled: 03/14/19 08:55**	**Analyzed: 03/14/19 09:08**							
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	ND	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*92.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG16-5 (3C91401-03) Air Sampled: 03/14/19 09:20 Analyzed: 03/14/19 09:35									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**6.4**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**4.6**	5.0	"	"	"	"	"	"	J
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG16-5 (3C91401-03) Air Sampled: 03/14/19 09:20 Analyzed: 03/14/19 09:35									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**7.0**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**29**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**7.8**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**6.0**	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**39**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**99000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG14-5 (3C91401-04) Air Sampled: 03/14/19 10:15 Analyzed: 03/14/19 10:29									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**4.8**	5.0	"	"	"	"	"	"	J
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**31**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	**70**	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG14-5 (3C91401-04) Air Sampled: 03/14/19 10:15 Analyzed: 03/14/19 10:29									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**11**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**29**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**7.0**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**88**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*91.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**240000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG12-5 (3C91401-05) Air Sampled: 03/14/19 10:40 Analyzed: 03/14/19 10:56									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG12-5 (3C91401-05) Air Sampled: 03/14/19 10:40 Analyzed: 03/14/19 10:56									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	ND	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**6.2**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*87.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**37000**	50000	"	1	"	"	"	GROs by GC/MS	J
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG12-5-DUP (3C91401-06) Air Sampled: 03/14/19 11:10 Analyzed: 03/14/19 11:23									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG12-5-DUP (3C91401-06) Air Sampled: 03/14/19 11:10 Analyzed: 03/14/19 11:23									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**4.6**	5.0	"	"	"	"	"	"	J
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**8.2**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*90.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**33000**	50000	"	1	"	"	"	GROs by GC/MS	J
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG5-5 (3C91401-07) Air Sampled: 03/14/19 11:35 Analyzed: 03/14/19 11:50									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**5.0**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG5-5 (3C91401-07) Air Sampled: 03/14/19 11:35 Analyzed: 03/14/19 11:50									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**28**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**6.6**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**22**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**120000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG6-5 (3C91401-08) Air Sampled: 03/14/19 12:05 Analyzed: 03/14/19 12:18									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**15**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**3.4**	5.0	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**30**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**75**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG6-5 (3C91401-08) Air Sampled: 03/14/19 12:05 Analyzed: 03/14/19 12:18									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**26**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**94**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**32**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**140**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*88.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**88000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG7-5 (3C91401-09) Air Sampled: 03/14/19 12:30 Analyzed: 03/14/19 12:45									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**70**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**29**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**60**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	**24**	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG7-5 (3C91401-09) Air Sampled: 03/14/19 12:30 Analyzed: 03/14/19 12:45									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**150**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	**7.8**	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**610**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**22**	5.0	"	"	"	"	"	"	
ortho-Xylene	**170**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**4.4**	5.0	"	"	"	"	"	"	J
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**650**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.8 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*96.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**190000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG8-5 (3C91401-10) Air Sampled: 03/14/19 13:00 Analyzed: 03/14/19 13:12									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**30**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**11**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**94**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	**23**	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	**25**	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

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Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG8-5 (3C91401-10) Air Sampled: 03/14/19 13:00 Analyzed: 03/14/19 13:12									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**88**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	**6.0**	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**320**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**12**	5.0	"	"	"	"	"	"	
ortho-Xylene	**93**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	**7.8**	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**540**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*92.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**130000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-5 (3C91401-11) Air Sampled: 03/14/19 13:25 Analyzed: 03/14/19 13:39									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**8.0**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG20-5 (3C91401-11) Air Sampled: 03/14/19 13:25 Analyzed: 03/14/19 13:39									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**10**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**41**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**11**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**33**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*88.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**170000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG22-5 (3C91401-12) Air Sampled: 03/14/19 13:50 Analyzed: 03/14/19 14:06									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**21**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**7.2**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**13**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG22-5 (3C91401-12) Air Sampled: 03/14/19 13:50 Analyzed: 03/14/19 14:06									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**36**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**140**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**4.4**	5.0	"	"	"	"	"	"	J
ortho-Xylene	**40**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**170**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*91.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**160000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG22-10 (3C91401-13) Air Sampled: 03/14/19 14:20 Analyzed: 03/14/19 14:33									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**8.2**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG22-10 (3C91401-13) Air Sampled: 03/14/19 14:20 Analyzed: 03/14/19 14:33									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**10**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**36**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**10**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**19**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*89.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	ND	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG23-5 (3C91401-14) Air Sampled: 03/14/19 14:45 Analyzed: 03/14/19 15:00									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**8.6**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG23-5 (3C91401-14) Air Sampled: 03/14/19 14:45 Analyzed: 03/14/19 15:00									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**8.0**	10	"	"	"	"	"	"	J
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**30**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**1.4**	5.0	"	"	"	"	"	"	J
ortho-Xylene	**9.2**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**19**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.8 %*		*75-125*		"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*		*75-125*		"	"	"	
Gasoline Range Hydrocarbons	**78000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG24-5 (3C91401-15) Air Sampled: 03/14/19 15:15 Analyzed: 03/14/19 15:27									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**5.6**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG24-5 (3C91401-15) Air Sampled: 03/14/19 15:15 Analyzed: 03/14/19 15:27									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**18**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**3.6**	5.0	"	"	"	"	"	"	J
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**19**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**54000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG25-5 (3C91401-16) Air Sampled: 03/14/19 15:40 Analyzed: 03/14/19 15:54									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**12**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG25-5 (3C91401-16) Air Sampled: 03/14/19 15:40 Analyzed: 03/14/19 15:54									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**10**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**48**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
ortho-Xylene	**18**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**32**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**150000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

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Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG26-5 (3C91401-17) Air Sampled: 03/14/19 16:10 Analyzed: 03/14/19 16:21									
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**38**	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	45	"	"	"	"	"	"	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**9.8**	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Benzene	**16**	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	90	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SG26-5 (3C91401-17) Air Sampled: 03/14/19 16:10 Analyzed: 03/14/19 16:21									
cis-1,3-Dichloropropene	ND	20	ug/m³ Air	1	39C1401	03/14/19	03/14/19	EPA 8260B	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**57**	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	20	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
meta- and para-Xylenes	**210**	5.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	**8.0**	5.0	"	"	"	"	"	"	
ortho-Xylene	**75**	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	**220**	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	20	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl Chloride	ND	5.0	"	"	"	"	"	"	
2-Propanol	ND	290	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*75-125*		"	"	"	"	
Gasoline Range Hydrocarbons	**100000**	50000	"	1	"	"	"	GROs by GC/MS	
Diisopropyl Ether (DIPE)	ND	1000	"	"	"	"	"	EPA 8260B	
Ethyl tert-butyl ether (EtBE)	ND	1000	"	"	"	"	"	"	
Methyl tert-butyl ether (MtBE)	ND	1000	"	"	"	"	"	"	
tert-Amyl methyl ether (TAME)	ND	1000	"	"	"	"	"	"	
tert-Butanol (TBA)	ND	20000	"	"	"	"	"	"	

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
Blank (39C1401-BLK1)				Prepared & Analyzed: 03/14/19						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/m³ Air							
Gasoline Range Hydrocarbons	ND	50000	"							
Diisopropyl Ether (DIPE)	ND	1000	"							
1,1,1-Trichloroethane	ND	5.0	"							
Ethyl tert-butyl ether (EtBE)	ND	1000	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
Methyl tert-butyl ether (MtBE)	ND	1000	"							
1,1,2-Trichloroethane	ND	5.0	"							
tert-Amyl methyl ether (TAME)	ND	1000	"							
1,1,2-Trichloro-trifluoroethane	ND	5.0	"							
tert-Butanol (TBA)	ND	20000	"							
1,1-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	10	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	45	"							
1,2-Dibromoethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dichloropropane	ND	10	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
2,2-Dichloropropane	ND	20	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	90	"							

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
Blank (39C1401-BLK1)				Prepared & Analyzed: 03/14/19						
Bromodichloromethane	ND	5.0	ug/m³ Air							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
Carbon disulfide	ND	5.0	"							
Carbon tetrachloride	ND	20	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
cis-1,2-Dichloroethene	ND	10	"							
cis-1,3-Dichloropropene	ND	20	"							
Dibromochloromethane	ND	5.0	"							
Dibromomethane	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
Ethylbenzene	ND	10	"							
Hexachlorobutadiene	ND	20	"							
Isopropylbenzene	ND	5.0	"							
meta- and para-Xylenes	ND	5.0	"							
Methylene Chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
ortho-Xylene	ND	5.0	"							
p-Isopropyltoluene	ND	10	"							
sec-Butylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	10	"							
trans-1,3-Dichloropropene	ND	20	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							

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Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
9245 Activity Rd.	Project Number: EST3195	**Reported:**
San Diego, CA 92126	Project Manager: Alex Santini	19-Mar-19 10:09

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
Blank (39C1401-BLK1)				Prepared & Analyzed: 03/14/19						
Vinyl Chloride	ND	5.0	ug/m³ Air							
2-Propanol	ND	290	"							
Surrogate: Dibromofluoromethane	*2580*		*"*	*2500*		*103*	*75-125*			
Surrogate: Toluene-d8	*2300*		*"*	*2500*		*92.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2440*		*"*	*2500*		*97.6*	*75-125*			
LCS (39C1401-BS1)				Prepared & Analyzed: 03/14/19						
Diisopropyl Ether (DIPE)	540	1000	ug/m³ Air	500		108	70-137			J
1,1,1,2-Tetrachloroethane	550	5.0	"	500		110	75-136			
Ethyl tert-butyl ether (EtBE)	490	1000	"	500		98.0	70-130			J
1,1,1-Trichloroethane	540	5.0	"	500		108	73-134			
1,1,2,2-Tetrachloroethane	450	5.0	"	500		90.0	56-149			
Methyl tert-butyl ether (MtBE)	1170	1000	"	1000		117	70-130			
tert-Amyl methyl ether (TAME)	540	1000	"	500		108	70-125			J
1,1,2-Trichloroethane	510	5.0	"	500		102	67-137			
tert-Butanol (TBA)	5390	20000	"	5000		108	61-159			J
1,1,2-Trichloro-trifluoroethane	570	5.0	"	500		114	83-125			
1,1-Dichloroethane	540	5.0	"	500		108	80-121			
1,1-Dichloroethene	490	5.0	"	500		98.0	73-137			
1,1-Dichloropropene	560	5.0	"	500		112	77-122			
1,2,3-Trichlorobenzene	480	10	"	500		96.0	67-133			
1,2,3-Trichloropropane	550	5.0	"	500		110	56-145			
1,2,4-Trichlorobenzene	520	5.0	"	500		104	71-135			
1,2,4-Trimethylbenzene	470	5.0	"	500		94.0	76-140			
1,2-Dibromo-3-chloropropane	560	45	"	500		112	43-158			
1,2-Dibromoethane	520	5.0	"	500		104	80-130			
1,2-Dichlorobenzene	520	5.0	"	500		104	67-139			
1,2-Dichloroethane	560	5.0	"	500		112	75-131			
1,2-Dichloropropane	480	10	"	500		96.0	62-144			
1,3,5-Trimethylbenzene	510	5.0	"	500		102	78-125			
1,3-Dichlorobenzene	570	5.0	"	500		114	82-120			
1,3-Dichloropropane	540	5.0	"	500		108	61-145			
1,4-Dichlorobenzene	550	5.0	"	500		110	84-120			
2,2-Dichloropropane	500	20	"	500		100	68-134			

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Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
LCS (39C1401-BS1)				Prepared & Analyzed: 03/14/19						
2-Chlorotoluene	500	5.0	ug/m³ Air	500		100	65-127			
4-Chlorotoluene	570	5.0	"	500		114	65-127			
Benzene	460	5.0	"	500		92.0	79-118			
Bromobenzene	510	5.0	"	500		102	69-140			
Bromochloromethane	490	90	"	500		98.0	61-141			
Bromodichloromethane	550	5.0	"	500		110	67-137			
Bromoform	460	5.0	"	500		92.0	57-152			
Bromomethane	530	10	"	500		106	51-148			
Carbon disulfide	480	5.0	"	500		96.0	61-140			
Carbon tetrachloride	550	20	"	500		110	74-143			
Chlorobenzene	480	5.0	"	500		96.0	67-140			
Chloroethane	550	5.0	"	500		110	60-137			
Chloroform	560	5.0	"	500		112	82-140			
Chloromethane	500	10	"	500		100	58-139			
cis-1,2-Dichloroethene	570	10	"	500		114	85-116			
cis-1,3-Dichloropropene	470	20	"	500		94.0	66-142			
Dibromochloromethane	520	5.0	"	500		104	61-140			
Dibromomethane	530	5.0	"	500		106	66-143			
Dichlorodifluoromethane	550	5.0	"	500		110	47-129			
Ethylbenzene	560	10	"	500		112	70-125			
Hexachlorobutadiene	500	20	"	500		100	71-145			
Isopropylbenzene	550	5.0	"	500		110	85-116			
meta- and para-Xylenes	1020	5.0	"	1000		102	83-115			
Methylene Chloride	490	5.0	"	500		98.0	81-126			
Naphthalene	560	5.0	"	500		112	56-140			
n-Butylbenzene	510	5.0	"	500		102	60-149			
n-Propylbenzene	560	5.0	"	500		112	77-129			
ortho-Xylene	550	5.0	"	500		110	85-115			
p-Isopropyltoluene	560	10	"	500		112	63-144			
sec-Butylbenzene	570	5.0	"	500		114	68-128			
Styrene	550	5.0	"	500		110	65-142			
tert-Butylbenzene	560	5.0	"	500		112	60-128			
Tetrachloroethene	520	5.0	"	500		104	60-144			

Group Delta	Project: 9449 Friars Road San Diego, CA. 92108	
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Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
LCS (39C1401-BS1)				Prepared & Analyzed: 03/14/19						
Toluene	540	5.0	ug/m³ Air	500		108	70-115			
trans-1,2-Dichloroethene	550	10	"	500		110	72-133			
trans-1,3-Dichloropropene	530	20	"	500		106	68-140			
Trichloroethene	540	5.0	"	500		108	68-132			
Trichlorofluoromethane	570	5.0	"	500		114	62-144			
Vinyl Chloride	520	5.0	"	500		104	66-137			
Surrogate: Dibromofluoromethane	*12600*		*"*	*12500*		*101*	*75-125*			
Surrogate: Toluene-d8	*11600*		*"*	*12500*		*92.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*12500*		*"*	*12500*		*100*	*75-125*			
LCS (39C1401-BS2)				Prepared & Analyzed: 03/14/19						
Gasoline Range Hydrocarbons	243000	50000	ug/m³ Air	250000		97.4	70-130			
Duplicate (39C1401-DUP1)		**Source: 3C91401-03**		Prepared & Analyzed: 03/14/19						
Gasoline Range Hydrocarbons	102000	50000	ug/m³ Air		99100			2.80	50	
Diisopropyl Ether (DIPE)	ND	1000	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	5.0	"		ND				50	
1,1,1-Trichloroethane	ND	5.0	"		ND				50	
Ethyl tert-butyl ether (EtBE)	ND	1000	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	5.0	"		ND				50	
Methyl tert-butyl ether (MtBE)	ND	1000	"		ND				20	
1,1,2-Trichloroethane	ND	5.0	"		ND				50	
tert-Amyl methyl ether (TAME)	ND	1000	"		ND				20	
1,1,2-Trichloro-trifluoroethane	ND	5.0	"		ND				50	
tert-Butanol (TBA)	ND	20000	"		ND				20	
1,1-Dichloroethane	ND	5.0	"		ND				50	
1,1-Dichloroethene	ND	5.0	"		ND				50	
1,1-Dichloropropene	ND	5.0	"		ND				50	
1,2,3-Trichlorobenzene	ND	10	"		ND				50	
1,2,3-Trichloropropane	ND	5.0	"		ND				50	
1,2,4-Trichlorobenzene	ND	5.0	"		ND				50	
1,2,4-Trimethylbenzene	7.60	5.0	"		6.40			17.1	50	
1,2-Dibromo-3-chloropropane	ND	45	"		ND				50	
1,2-Dibromoethane	ND	5.0	"		ND				50	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
Duplicate (39C1401-DUP1)	**Source: 3C91401-03**		Prepared & Analyzed: 03/14/19							
1,2-Dichlorobenzene	ND	5.0	ug/m³ Air		ND				50	
1,2-Dichloroethane	ND	5.0	"		ND				50	
1,2-Dichloropropane	ND	10	"		ND				50	
1,3,5-Trimethylbenzene	ND	5.0	"		ND				50	
1,3-Dichlorobenzene	ND	5.0	"		ND				50	
1,3-Dichloropropane	ND	5.0	"		ND				50	
1,4-Dichlorobenzene	ND	5.0	"		ND				50	
2,2-Dichloropropane	ND	20	"		ND				50	
2-Chlorotoluene	ND	5.0	"		ND				50	
4-Chlorotoluene	ND	5.0	"		ND				50	
Benzene	5.40	5.0	"		4.60			16.0	50	
Bromobenzene	ND	5.0	"		ND				50	
Bromochloromethane	ND	90	"		ND				50	
Bromodichloromethane	ND	5.0	"		ND				50	
Bromoform	ND	5.0	"		ND				50	
Bromomethane	ND	10	"		ND				50	
Carbon disulfide	ND	5.0	"		ND				50	
Carbon tetrachloride	ND	20	"		ND				50	
Chlorobenzene	ND	5.0	"		ND				50	
Chloroethane	ND	5.0	"		ND				50	
Chloroform	ND	5.0	"		ND				50	
Chloromethane	ND	10	"		ND				50	
cis-1,2-Dichloroethene	ND	10	"		ND				50	
cis-1,3-Dichloropropene	ND	20	"		ND				50	
Dibromochloromethane	ND	5.0	"		ND				50	
Dibromomethane	ND	5.0	"		ND				50	
Dichlorodifluoromethane	ND	5.0	"		ND				50	
Ethylbenzene	9.40	10	"		7.00			29.3	50	J
Hexachlorobutadiene	ND	20	"		ND				50	
Isopropylbenzene	ND	5.0	"		ND				50	
meta- and para-Xylenes	35.2	5.0	"		28.8			20.0	50	
Methylene Chloride	ND	5.0	"		ND				50	
Naphthalene	ND	5.0	"		ND				50	

Group Delta 9245 Activity Rd. San Diego, CA 92126	Project: 9449 Friars Road San Diego, CA. 92108 Project Number: EST3195 Project Manager: Alex Santini	**Reported:** 19-Mar-19 10:09

Volatile Organic Compounds - Quality Control

Environmental Support Technologies

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 39C1401 - Volatiles										
Duplicate (39C1401-DUP1)	**Source: 3C91401-03**		Prepared & Analyzed: 03/14/19							
n-Butylbenzene	ND	5.0	ug/m³ Air		ND				50	
n-Propylbenzene	ND	5.0	"		ND				50	
ortho-Xylene	9.80	5.0	"		7.80			22.7	50	
p-Isopropyltoluene	ND	10	"		ND				50	
sec-Butylbenzene	ND	5.0	"		ND				50	
Styrene	ND	5.0	"		6.00				50	
tert-Butylbenzene	ND	5.0	"		ND				50	
Tetrachloroethene	ND	5.0	"		ND				50	
Toluene	41.0	5.0	"		39.2			4.49	50	
trans-1,2-Dichloroethene	ND	10	"		ND				50	
trans-1,3-Dichloropropene	ND	20	"		ND				50	
Trichloroethene	ND	5.0	"		ND				50	
Trichlorofluoromethane	ND	5.0	"		ND				50	
Vinyl Chloride	ND	5.0	"		ND				50	
2-Propanol	ND	290	"		ND				200	
Surrogate: Dibromofluoromethane	*2480*		*"*	*2500*		*99.2*	*75-125*			
Surrogate: Toluene-d8	*2360*		*"*	*2500*		*94.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2360*		*"*	*2500*		*94.4*	*75-125*			

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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

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Appendix C

Technical Memorandum

April 4, 2019

To: Alexandre Santini, PE, Group Delta Consultants

Subject: Data Validation Review of Soil Analyses
Matrix Spike and Matrix Spike Duplicates
SDSU Mission Valley Site, San Diego, California

Data Validation Review of Soil Matrix Spike and Matrix Spike Duplicates

A total of 36 soil samples were collected between February 13 and March 16, 2019. The soil samples were selectively analyzed for TPH by EPA Method 8015B Modified, VOCs by EPA Method 8260B, PAHs by EPA Method 8270C SIM, pesticides by EPA Method 8081A, PCBs by EPA Method 8082, and metals by EPA Methods 6010B/7471A. The soil samples were analyzed Eurofins Calscience between February 14 and March 26, 2019 across eight different sample delivery groups (SDGs) identified as follows:

Soil Borings	Sample Collection Date	Sample Delivery Group
B-16, S-13	2/13/19	19-02-0970
S-2	2/19/19	19-02-1404
B-20	2/27/19	19-02-1997
B-24	3/12/19	19-03-0872
B-14	3/13/19	19-03-1022
S-8	3/14/19	19-03-1162
B-26, B-27	3/15/19	19-03-1240
B-28, B-30, B-31	3/16/19	19-03-1368

One of the soil samples from each SDG was spiked with known concentrations for each of the target constituents. The detected concentrations in the matrix spike (MS) and matrix spike duplicate (MSD) were compared against the known concentrations and the percent recovery compared against the laboratory acceptance criteria. The following outliers associated with the soil MS/MSD were noted:

- The percent recoveries for TPH DRO were outside the acceptance limits for SDG 19-02-0970 (Borings B-16 and S-13). No TPH DRO was detected in the soil samples from boring B-16, but TPH DRO was detected at concentrations between 11 and 14 mg/kg in boring S-13.

- The percent recoveries for barium, selenium, and thallium were outside the acceptance limits for SDG 19-02-0970 (Borings B-16 and S-13). Barium was detected at concentrations of 62.1 and 80.0 mg/kg in samples B-16-2 and S-13-2, respectively. Selenium and thallium were not detected in any soil samples.

- The percent recoveries for antimony were outside the acceptance limits for SDG 19-02-1404 (Boring S-2). Antimony was not detected in any soil samples.

- The percent recoveries for fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(b)fluoranthene, and benzo(a)pyrene were outside the acceptance limits for SDG 19-02-1404 (Boring S-2). No PAHs were detected in the soil sample collected from boring S-2.

- The percent recoveries for antimony and barium were outside the acceptance limits for SDG 19-03-0872 (Boring B-24). Antimony was not detected in any soil samples. Barium was detected at a concentration of 60 mg/kg in sample B-24-2.

- The percent recoveries for antimony, barium, nickel, vanadium, and zinc were outside the acceptance limits for SDG 19-03-1022 (Boring B-14). Barium and nickel were detected at concentrations of 43.4 and 2.33 mg/kg in sample B-14-2, respectively. Vanadium and zinc were detected at concentrations of 15.1 and 10.8 mg/kg in sample B-14-2, respectively.

- The percent recoveries for copper and thallium were outside the acceptance limits for SDG 19-03-1162 (Boring S-8). Thallium was not detected in any soil samples. Copper was detected at a concentration of 15.2 mg/kg in sample S-8-2.

- The percent recoveries for barium, chromium, cobalt, copper, vanadium, and zinc were outside the acceptance limits for SDG 19-03-1240 (Borings B-26 and B-27). Barium was detected at concentrations of 33.8 and 117 mg/kg in samples B-26-2 and B-27-2, respectively. Chromium was detected at concentrations of 5.71 and 7.25 mg/kg in samples B-26-2 and B-27-2, respectively. Cobalt was detected at concentrations of 2.46 and 3.62 mg/kg in samples B-26-2 and B-27-2, respectively. Copper was detected at concentrations of 2.32 and 5.32 mg/kg in samples B-26-2 and B-27-2, respectively. Vanadium was detected at concentrations of 13.5 and 15.2 mg/kg in samples B-26-2 and B-27-2, respectively. Zinc was detected at concentrations of 9.29 and 23.3 mg/kg in samples B-26-2 and B-27-2, respectively.

- The percent recoveries for antimony, barium, and chromium were outside of the acceptance limits for SDG 19-03-1368 (Borings B-28, B-30, and B-31). Antimony was not detected in any soil samples. Barium was detected at concentrations between 47.3 and 116 mg/kg in samples B-28-2, B-30-2.5, and B-31-2, respectively. Chromium was detected at concentrations between 4.51 and 12.8 mg/kg in samples B-28-2, B-30-2.5, and B-31-2, respectively.

The relative percent difference (RPD) between the MS and MSD concentrations were additionally evaluated and compared against the laboratory acceptance criteria. The following outliers associated with the soil MS/MSD RPDs were noted:

- The RPD for TPH DRO exceeded the acceptance criteria for SDG 19-02-0970 (Borings B-16 and S-13). No TPH DRO was detected in the soil samples from boring B-16, but TPH DRO was detected at concentrations between 11 and 14 mg/kg in boring S-13.

- The RPD for mercury exceeded the acceptance criteria for SDG 19-02-0970 (Borings B-16 and S-13). Mercury was not detected in any soil samples collected from borings B-16 and S-13.

- The RPD for 4,4'-DDE exceeded the acceptance criteria for SDG 19-02-1404 (Boring S-2). 4,4'-DDE was detected at 0.021 mg/kg in sample S-2-2.

- The RPD for antimony exceeded the acceptance criteria for SDG 19-03-0872 (Boring B-24) and SDG 19-02-1404 (Boring S-2). Antimony was not detected in any soil samples.

- The RPD for silver exceeded the acceptance criteria for SDG 19-03-1162 (Boring S-8). Silver was detected in sample S-8-2 at a concentration of 0.388 mg/kg.

- The RPDs for barium exceeded the acceptance criteria for SDG 19-03-1368 (Borings B-28, B-30, and B-31). Barium was detected at concentrations between 47.3 and 116 mg/kg in samples B-28-2, B-30-2.5, and B-31-2, respectively.