PHASE II SITE INVESTIGATION

1449 West Temple Street
Los Angeles, California

August 31, 2015

AVOCET
ENVIRONMENTAL, INC.

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PREPARED FOR

California Department of General Services
Real Estate Services Division
Asset Enhancement Branch
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PREPARED BY

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Project No. 1386.002

AVOCET
ENVIRONMENTAL, INC.

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Asset Enhancement Branch
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West Sacramento, California 95605

Phase II Site Investigation
1449 West Temple Street
Los Angeles, California

Dear Mr. Todd:

This report documents a Phase II site investigation for the property at 1449 West Temple Street in Los Angeles, California. The investigation was conducted under Agreement No. 3162418, Amendment No. 41.

As always, Avocet Environmental, Inc. appreciates the opportunity to be of service to the California Department of General Services. If you have any questions about the report or require additional information, please do not hesitate to contact the undersigned at (949) 296-0977 Ext. 111 or at dsiren@avocetenv.com.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Deke Siren, P.G.
Project Manager

DCS:sh
Enclosure

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LIST OF ABBREVIATIONS AND ACRONYMS

bgs	below ground surface
CDPH	California Department of Public Health
CHHSL	California Human Health Screening Level
1,1-DFA	1,1-difluoroethane
DTSC	California Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
ESA	environmental site assessment
Freon® 22	chlorodifluoromethane
IDW	investigation-derived waste
J-E	Johnson and Ettinger
LARWQCB	California Regional Water Quality Control Board, Los Angeles Region
mg/kg	milligram per kilogram
mL/min	milliliter per minute
OEHHA	California Office of Environmental Health Hazard Assessment
PCB	polychlorinated biphenyl
PVC	polyvinyl chloride
REC	recognized environmental condition
RSL	Regional Screening Level
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
$\mu g/m^3$	microgram per cubic meter
VOC	volatile organic compound

1.0 INTRODUCTION

This report documents a Phase II site investigation at the approximately 1-acre property located at 1449 West Temple Street in Los Angeles, California (the site; Figure 1). Avocet Environmental, Inc. (Avocet) conducted the Phase II investigation on behalf of the California Department of General Services, Real Estate Services Division to assess whether historical site operations may have impacted the subsurface environment.

1.1 BACKGROUND INFORMATION

The approximately 1-acre site is located in the eastern portion of Central Los Angeles and is bordered to the north by US Highway 101 (Hollywood Freeway), to the south by West Temple Street, to the east by the Temple Villas apartment complex, and to the west by single-family homes. The Assessor's Parcel Number for the site is 5160-005-900 and it is currently zoned for Neighborhood Commercial use. The property supports one 30,000-square-foot, two-story building, which is currently vacant. An asphalt-paved parking lot and landscaping covers the remainder of the site. The site location is presented in Figure 1 and a site plan on an aerial photo base is presented in Figure 2.

1.1.1 Site History

Information regarding previous site usage is detailed in Avocet's February 4, 2015 Phase I Environmental Site Assessment (ESA) report (Avocet, February 4, 2015). Available information indicates that the site was first developed for residential use as early as 1923. By 1968, the residential dwellings had been demolished and were replaced by the 30,000-square-foot, two-story building that currently occupies the site. The existing building was originally built for use by the California Department of Health Services, which is now known as the California Department of Public Health (CDPH). CDPH and its Food and Drug branch used the laboratory mainly for testing drinking water to certify local purveyors of groundwater. In the early 1990s, part of the laboratory space was leased out to the California Department of Toxic Substances Control (DTSC). CDPH and DTSC both used the facility until January 2013, when the last CDPH operations were moved elsewhere. DTSC ceased laboratory operations at the facility in early 2015.

The first floor of the building has historically been used as both an organic and an inorganic laboratory equipped for the analysis of all types of media for the presence of hazardous substances. A very small portion of the laboratory was also used as a biological lab for E-coli analysis. The second floor of the building has been utilized as office space. A laboratory intended for drinking water analysis was temporarily set up in one room on the second floor, but due to a lack of funding, the equipment was moved to another location and the space was converted into office cubicles.

As part of the Phase I ESA, Avocet identified two recognized environmental conditions[1] (RECs) that warranted further evaluation, which included a release of chlorodifluoromethane (Freon® 22) from a chiller unit and the presence of a wastewater clarifier. Records indicate that in 2002, approximately 350 pounds of Freon 22® leaked from the chiller unit located in the northeast corner of the property, possibly impacting the subsurface. Also, wastewater from laboratory sinks passes through a three-stage clarifier before being discharged to the sanitary sewer system. In addition to the potential for leaks from the clarifier, particularly at the inlet and outlet connections, Avocet observed effluent emanating from the top of the clarifier during an October 21, 2014 walkover survey. CDPH indicated that the overflow resulted from root blockage in the clarifier discharge pipe.

1.1.2 Subsurface Conditions

The site is situated on the southern flank of the Elysian Hills, which are part of the transitional foothills between the coastal plain of Los Angeles County and the Santa Monica Mountains (LARWQCB, 1994). The area is predominantly underlain by Tertiary age bedrock covered by a thin veneer of soil. The Tertiary bedrock underlying the Elysian Hills is reported to be essentially non-water-bearing, with groundwater limited to small, thin lenses of perched groundwater (California Department of Water Resources, 1961).

Since the site is not located in a recognized groundwater basin and the bedrock/sediments underlying the site are not known to be significant sources of groundwater, groundwater, if any, beneath the site is assumed not to have direct beneficial uses. If shallow, unconfined groundwater were found beneath the site, groundwater flow direction would be expected to generally mimic surface topography with flow in a southerly direction.

1.2 PURPOSE AND SCOPE

The primary purpose of the Phase II subsurface investigation documented herein was to assess whether residual Freon® 22 from the 2002 rupture of a former chiller unit or wastewater overflow from the clarifier appreciably impacted soil or soil vapor beneath the site.

The scope of work developed for the subject investigation was based in part on the findings of the Phase I ESA (Avocet, February 4, 2015). The subject investigation included the collection and analysis of soil matrix and soil vapor samples from three soil borings. Borings B-1 and B-2 were advanced adjacent to the wastewater clarifier to a total depth of 5 feet below ground surface (bgs). Boring B-3 was advanced in the vicinity of the location of the former chiller unit to a total depth of 5 feet bgs.

[1] As defined in ASTM E 1527-05, *Standard Practice for Environmental Site Assessments,* "recognized environmental conditions" refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.

1.3 REPORT ORGANIZATION

Including the introduction, this report consists of four sections. Section 2.0 documents the field and laboratory procedures followed during the Phase II investigation. Section 3.0 presents the findings of the Phase II investigation, and Section 4.0 presents a summary of the Phase II investigation activities and applicable conclusions based on the findings.

Supporting information is contained in tables, figures, and two appendices, all of which follow the text of this report. Appendix A contains lithologic logs for Borings B-1 through B-3. Appendix B contains laboratory analytical reports associated with the Phase II investigation. Appendix C contains a nonhazardous waste manifest for the investigation derived waste (IDW) generated during the investigation. Appendix D contains the Johnson and Ettinger (J-E) model output.

2.0 FIELD AND LABORATORY PROCEDURES

This section documents field, laboratory, and related procedures followed during the Phase II investigation that was conducted at the site in June and July 2015. The Phase II investigation included the collection and analysis of soil matrix samples from three soil borings and soil vapor samples from two soil vapor probes at the locations identified in Figure 2.

2.1 SUBSURFACE UTILITY CLEARANCE

Prior to drilling, the proposed boring locations were marked out on the ground with white paint and, in unpaved areas, wooden stakes with white flagging. As required by State law, Underground Service Alert of Southern California (DigAlert) was then notified at least 48 hours prior to the field investigation so that proximal underground utilities could be marked prior to drilling. As a final precaution, each boring was carefully advanced using hand augering equipment.

2.2 SOIL BORINGS

2.2.1 Drilling and Soil Matrix Sampling

As noted above, Avocet collected soil matrix samples from a total of three borings. Two borings, B-1 and B-2, were advanced at either end of the wastewater clarifier, and one boring, B-3, was advanced adjacent to and downslope of the ruptured chiller unit, where the Freon 22® release occurred. Boring locations are shown in Figure 2.

Borings B-1, B-2, and B-3 were manually advanced to a depth of 5.5 feet on June 29, 2015, using a hand auger. As described in more detail below, soil vapor probes were installed at an approximate depth of 5 feet in Borings B-1 and B-3. During drilling, representative soil matrix grab samples were collected from the base of the auger bucket at depths of 2 feet and 5 feet. Immediately upon recovery, samples designated for volatile organic compound (VOC) analysis were subsampled in accordance with U.S. Environmental Protection Agency (EPA) Method 5035. After subsampling, soil remaining in the hand auger bucket was transferred to 2-inch-diameter by 6-inch-long stainless steel sample sleeves. The ends of the sleeves were covered with Teflon® sheeting, sealed with plastic end caps, labeled, recorded on a chain-of-custody form, and placed on ice in a cooler pending delivery to the analytical laboratory.

Soil matrix samples collected during the drilling were examined for visual and olfactory indications of chemical impact, such as discoloration, excess moisture, or odors in ambient air. The samples were also screened at regular intervals for the possible presence of VOCs. The screening procedure consisted of sealing a subsample of the soil in a Ziploc® bag, agitating it to promote the volatilization of any organic compounds, and then inserting the probe of a calibrated photoionization detector into the bag headspace. The screening results were recorded on the boring logs, which are provided in Appendix A. It is noted that based on field screening, no VOCs were measured in soil.

After screening, soil types were visually classified in accordance with the Unified Soil Classification System and ASTM International Method D2488 (Standard Practice for Description and Identification of Soils - Visual-Manual Procedure). Lithologic descriptions, field screening results, and other pertinent information are included on the boring logs in Appendix A.

2.2.2 Soil Matrix Sample Analyses

The soil matrix samples were submitted under chain of custody to Eurofins Calscience, a state-certified analytical testing laboratory based in Garden Grove, California. Based on constituents that were typically found in wastewater produced from the laboratory, all soil matrix samples collected from Borings B-1 and B-2, adjacent to the wastewater clarifier, were analyzed for VOCs using EPA Method 8260B, semivolatile organic compounds (SVOCs) using EPA Method 8270C, total petroleum hydrocarbons (TPH) using EPA Method 8015B, Title 22 metals using EPA Methods 6010B and 7471A, hexavalent chromium using EPA Method 7199, polychlorinated biphenyls (PCBs) using EPA Method 8082, and organochlorine pesticides using EPA Method 8081A. To assess the area of the former chiller unit for the possible past release of Freon® 22, the soil matrix samples collected from Boring B-3 were analyzed for VOCs, Title 22 metals, and TPH using the same EPA test methods identified above. The results of these analyses are summarized in Tables 1 through 8 and the laboratory reports are included in Appendix B.

2.3 SOIL VAPOR PROBE INSTALLATION AND SAMPLING

2.3.1 Probe Installation

As mentioned above, soil vapor probes were installed in Borings B-1 and B-3 after they were hand augered to an approximate depth of 5.5 feet. The probes were constructed as temporary probes in accordance with regulatory guidelines for active soil vapor investigations (DTSC, et al., April 2012).

The temporary soil vapor probes were installed at a nominal depth of 5 feet bgs at the midpoint of a 12-inch layer of silica sand. The probes consisted of a porous, polymerized ceramic tip that was connected to ⅛-inch outside diameter nylon tubing extending approximately 2 feet above the ground surface. The ceramic tips were installed using a 5-foot section of 1-inch-diameter polyvinyl chloride (PVC) pipe, cut to length to ensure the probes were installed at the desired depth. The sand pack was then installed around the 5-foot probe, the PVC pipe was withdrawn, and the annular space was filled with dry granular bentonite that was hydrated in place in 6- to 12-inch lifts with potable water. Each probe was completed at the surface with a gas-tight valve to prevent degassing after construction and during a minimum 48-hour equilibration period.

2.3.2 Leak Detection Testing

In accordance with regulatory guidance (DTSC, et al., April 2012), a leak detection test was performed on each soil vapor probe in conjunction with sample collection to verify the integrity of the sample train during sample collection. In brief, the leak detection compound, 1,1-difluoroethane (1,1-DFA), was applied to paper towels that were placed around the probe

and the sample train during the sampling process. 1,1-DFA was included in the analytical suite as an indicator of the integrity of the probe and the sample train. 1,1-DFA was not detected in either of the soil vapor samples.

2.3.3 Soil Vapor Sample Collection and Analyses

On July 1, 2015, two days after the temporary probes were installed, soil vapor samples were collected from the vapor probes installed in Borings B-1 and B-3 in 400-milliliter SUMMA canisters. The SUMMA canisters, flow regulators, and pressure gauges were provided by H&P Mobile Geochemistry (H&P) and were batch certified as "clean" using EPA Method TO-15 certification criteria. It is noted that regulatory guidance requires that soil vapor probes installed as described above be allowed to equilibrate for at least 48 hours prior to sample collection (DTSC, et al., April 2012).

Prior to sampling, the probes were purged of three probe volumes using a battery-powered air pump. Purging was conducted at a rate of approximately 150 milliliters per minute (mL/min) to minimize the likelihood of stripping or leakage. After purging the required volume, the airtight valve was closed, the pump was disconnected, and an evacuated 400-milliliter SUMMA canister was connected via a 150-mL/min flow regulator. The SUMMA canister valve was opened and verified airtight (i.e., no decrease in vacuum) using the attached vacuum gauge. The vapor probe valve was then opened for soil vapor sample collection.

The soil vapor samples were transported under chain of custody to H&P's fixed laboratory in Carlsbad, California, and analyzed for VOCs using EPA Method TO-15 and for methane using EPA Method 8015M. Freon® 22 (also known as chlorodifluoromethane) was requested to be included as part of the TO-15 analysis, but since Freon® 22 is not part of the regular VOC analytical list, its result was reported as a tentatively identified compound. The analytical results are summarized in Tables 7 and 8, respectively, and the analytical laboratory report is included in Appendix B.

2.3.4 Soil Vapor Probe Abandonment

Upon completion of soil vapor sampling, the probes were abandoned by pulling the nylon tubing out of the ground, detaching the porous tip in the process, and further hydrating the bentonite to seal the resulting holes.

2.4 EQUIPMENT DECONTAMINATION

Hand augers and soil sampling equipment were cleaned prior to first use and between borings in a nonphosphate detergent solution followed by two distilled water rinses.

2.5 BORING ABANDONMENT AND SITE RESTORATION

The boring that did not undergo soil gas sampling was backfilled with bentonite and then patched with soil similar to its surroundings upon the completion of soil matrix sampling. The two remaining borings were abandoned upon completion of soil gas sampling. Soil gas probes were pulled from the borings and then bentonite in the borings was hydrated with water to seal.

The boring adjacent to the wastewater clarifier was patched with soil similar to its surroundings. The boring advanced through the asphalt pavement in the vicinity of the former chiller unit was patched with cold-patch asphalt to match the surrounding grade.

2.6 INVESTIGATION-DERIVED WASTE MANAGEMENT

IDW consisted primarily of soil cuttings and equipment decontamination rinsate, all of which were placed in a single 55-gallon drum. The soil matrix analytical results were used to profile the IDW for disposal purposes. IDW disposal documentation is included in Appendix C of this report.

3.0 FINDINGS

This section presents the findings of the Phase II investigation in terms of the lithology and results of the analysis of the soil matrix and soil vapor samples.

3.1 LITHOLOGY

Subsurface soils encountered during the investigation consisted of sandy silt with gravel and weakly cemented silty sand. Groundwater was not encountered within the upper 5 feet, the maximum depth drilled. Boring logs for Borings B-1, B-2, and B-3 are presented in Appendix A.

3.2 ANALYTICAL RESULTS

The results of the soil and soil vapor analyses are briefly described below and summarized in Tables 1 through 6 and Tables 7 and 8, respectively. Analytical laboratory reports are included in Appendix B.

3.2.1 Soil Matrix Samples

3.2.1.1 TPH, VOCs, and SVOCs

Soil matrix samples collected at depths of 2 and 5 feet bgs from Borings B-1 and B-2, adjacent to the wastewater clarifier, and from Boring B-3, in the vicinity of the former chiller unit, were analyzed for TPH. TPH concentrations were below laboratory reporting limits in three of the six soil matrix samples analyzed (Table 1).

TPH was detected only in the 2-foot samples and consisted of heavy-chain hydrocarbons ($\geq C_{25}$) at relatively low concentrations, ranging from 6.7 to 46 milligrams per kilogram (mg/kg). Detected TPH concentrations in soil matrix samples were limited in vertical extent and are listed in the table below.

Summary of Detected TPH in Soil Matrix Samples			
Compound	**B-1; 2-feet** (mg/kg)	**B-2; 2-feet** (mg/kg)	**B-3; 2-feet** (mg/kg)
C_{25}-C_{28}	<4.9	<4.9	**6.7**
C_{29}-C_{32}	<4.9	**34**	**16**
C_{33}-C_{36}	<4.9	<4.9	**14**
C_{37}-C_{40}	<4.9	<4.9	**7.7**
C_6-C_{44} (Total)	**5.5**	**38**	**46**

Notes: < Denotes not detected at the Reporting Limit indicated

There are no state-wide screening levels for TPH. However, 1,000 mg/kg is a commonly applied soil screening level used for the evaluation of heavy-chain hydrocarbons. As shown in the above table, the highest TPH concentration detected (46 mg/kg) is well below this level.

Concentrations of VOCs and SVOCs were below laboratory detection limits in each soil sample analyzed (Tables 2 and 3, respectively).

3.2.1.2 Metals and Organochlorine Pesticides

Soil matrix samples collected from Borings B-1 through B-3 were analyzed for Title 22 metals and samples collected from Borings B-1 and B-2 were analyzed for organochlorine pesticides. Detectable metals concentrations were reported in all six soil matrix samples (Table 4).

Of the 13 individual metals that were reported at detectable concentrations, arsenic and cadmium were the only two metals that were detected at concentrations above commonly used screening levels. Arsenic and cadmium concentrations in the six soil samples are summarized in the table below.

Arsenic was detected in all six samples at concentrations above the Regional Screening Levels (RSLs) developed by the EPA (2015) and the California Human Health Screening Levels (CHHSLs) set by the Office of Environmental Health Hazard Assessment (OEHHA, 2010). As naturally occurring arsenic concentrations in soil throughout much of the western United States exceed industrial RSLs, arsenic concentrations in soil are commonly regulated using background levels, which in Los Angeles County can be as high as 12 mg/kg (Chernoff, et al., 2008). Although not an official policy or guideline, 12 mg/kg can be a useful screening level in assessing risks associated with arsenic impacts. While arsenic was detected in soil matrix samples at levels above screening levels, the detected arsenic concentrations are within the typical background range for Los Angeles County soils and are likely reflective of background levels. As such, it does not appear that the arsenic detected in the soil samples is a concern.

Cadmium was detected in four of the six samples at concentrations above its residential CHHSL. However, cadmium concentrations were comparable in the six samples and were only slightly above the residential CHHSL in four. The cadmium concentrations were below the industrial CHHSL and below both the residential and industrial RSLs. Due to only slight exceedances of the residential CHHSL and consistent concentrations in the soil samples, the presence of cadmium is likely reflective of background soil concentrations and not a concern for future site use.

Arsenic and Cadmium in Soil Matrix Samples								
Compound	**Sample Depth** (feet bgs)	**B-1** (mg/kg)	**B-2** (mg/kg)	**B-3** (mg/kg)	**Residential RSL** (mg/kg)	**Industrial RSL** (mg/kg)	**Residential CHHSL** (mg/kg)	**Industrial CHHSL** (mg/kg)
Arsenic	2	8.05	7.18	7.58	0.68	3	0.7	2.4
	5	7.69	6.69	6.42				
Cadmium	2	2.26	3.14	2.63	71	980	1.7	7.5
	5	1.62	1.14	3.00				

Organochlorine pesticide concentrations were below laboratory detection limits in each soil sample analyzed (Table 6).

3.2.1.3 Polychlorinated Biphenyls (PCBs)

Soil matrix samples collected from Borings B-1 and B-2 were analyzed for PCBs using EPA Method 8082. PCB concentrations were below laboratory detection levels in each soil sample analyzed (Table 5).

3.2.2 Soil Vapor Samples

Soil vapor samples were collected from the temporary soil vapor probes that were installed at a depth of 5 feet in Borings B-1 and B-3. The samples were analyzed for VOCs (Table 7) and methane (Table 8). Methane concentrations were below laboratory detection limits in each soil vapor sample analyzed. The VOC concentrations detected in soil vapor samples and the corresponding CHHSLs (OEHHA, 2010) are summarized in the table below.

Summary of Detected VOCs in Soil Vapor Samples

Compound	B-1 (µg/m^3)	B-3 (µg/m^3)	CHHSLs	
			Residential (µg/m^3)	Industrial (µg/m^3)
1,2,4-Trimethylbenzene	<5	9.8	--	--
Acetone	53	40	--	--
Benzene	<3.2	3.6	36	120
Carbon disulfide	18	80	--	--
Chlorodifluoromethane (Freon®22)	<7.2	14	--	--
Chloroform	140	<4.9	--	--
Ethylbenzene	4.9	5.8	420	1,400
m,p-Xylene	12	15	320,000	890,000
o-Xylene	<4.4	4.7	320,000	880,000
Tetrachloroethene	19	<6.9	180	600
Toluene	21	21	140,000	380,000

Notes: µg/m^3= micrograms per cubic meter
< Denotes not detected at the Reporting Limit indicated
-- Denotes screening level not available

3.2.3 Vapor Intrusion Assessment

As indicated above, all detected VOC concentrations in soil vapor were significantly lower than their respective CHHSLs. Inspection of the table, however, indicates that CHHSLs are not available for all of the VOCs detected in the soil vapor samples. To assess the impact, if any, of the VOCs in soil vapor on occupants of the existing or future structures on the property, Avocet used the J-E model (Johnson and Ettinger, 1991) to estimate attenuation coefficients and the VOC concentrations that could accumulate in a structure. The J-E model conservatively calculates the degree to which VOC concentrations in soil vapor could attenuate as the VOCs migrate vertically upward in the subsurface and conservatively estimates the VOC concentrations that could accumulate inside an enclosed building. The model considers the diffusion and advection of vapors through soil and the building floor slab and also takes into

account the mixing and replacement of air inside the building. Other input data to the J-E model included the site-specific soil conditions encountered and values recommended in DTSC guidance documents (Table 9). Separate J-E model runs were conducted for each detected VOC, and the estimated indoor air VOC concentrations were then compared to RSLs developed by EPA using standardized equations combining exposure information assumptions with EPA toxicity data (EPA, June 2015). The RSLs are considered to be protective for humans (including sensitive groups) over a lifetime[2]. The J-E model output is included in Appendix D and the results are summarized below.

J-E Attenuation Factors and Estimated Indoor Air VOC Concentrations					
Compound	**Maximum Soil Vapor Concentration** (µg/m^3)	**Modeled Attenuation Factor**	**Estimated Indoor Air Concentration** (µg/m^3)	**RSLs**	
				Residential (µg/m^3)	**Industrial** (µg/m^3)
1,2,4-Trimethylbenzene	9.8E+00	3.75E-04	3.67E-03	7.3E+00	3.1E+01
Acetone	5.3E+01	5.78E-04	3.06E-02	3.2E+04	1.4E+05
Benzene	3.6E+00	4.76E-04	1.71E-03	3.6E-01	1.6E+00
Carbon disulfide	8.0E+01	5.24E-04	4.19E-02	7.3E+02	3.1E+03
Chlorodifluoromethane (Freon®22)	1.4E+01	5.16E-04	7.23E-03	5.2E+04	2.2E+05
Chloroform	1.4E+02	5.24E-04	7.34E-02	1.2E-01	5.3E-01
Ethylbenzene	5.8E+00	4.31E-04	6.04E-02	1.1E+00	4.9E+00
m,p-Xylene	1.5E+01	4.13E-04	6.19E-03	1.0E+02	4.4E+02
o-Xylene	4.7E+00	4.73E-04	2.22E-03	1.0E+02	4.4E+02
Tetrachloroethene	1.9E+01	4.20E-04	7.98E-03	1.1E+01	4.7E+01
Toluene	2.1E+01	4.73E-04	9.93E-03	5.2E+03	2.2E+04

Notes: µg/m^3 – micrograms per cubic meter

Comparison of the indoor air VOC concentrations to the RSLs indicates that VOCs are not likely to accumulate in current or future structures at concentrations in excess of conservative residential or commercial EPA screening levels.

[2] The RSLs used in this evaluation were developed by EPA assuming a *de minimis* risk level of 10^{-6} for carcinogens and a target hazard quotient of 1 for noncarcinogens.

4.0 SUMMARY AND CONCLUSIONS

The primary objectives of the Phase II investigation were to assess whether or not identified RECs from a Phase I ESA prepared for the property, specifically a laboratory sink wastewater clarifier and a release from the chiller unit may have appreciably impacted the subsurface. The investigation included the collection of soil matrix samples from three soil borings and soil vapor samples from two of those soil borings. Soil matrix samples were analyzed for VOCs, TPH, SVOCs, Title 22 metals, organochlorine pesticides, and PCBs. Soil vapor samples were analyzed for VOCs and methane. The findings of the Phase II site investigation may be summarized as follows:

- TPH was reported at detectable concentrations in three of the six soil matrix samples (Table 1). Only heavy-chain hydrocarbons ($\geq C_{25}$) were detected, at relatively low concentrations ranging from 6.7 to 46 mg/kg. TPH-containing soil appears to be limited in vertical extent since the detections were in the 2-foot samples and the detected concentrations are well below the commonly applied 1,000 mg/kg soil screening level. Accordingly, the occurrence of TPH appears inconsequential.

- Detected metals concentrations in soil matrix samples were generally less than the RSLs developed by EPA and the CHHSLs developed by OEHHA. The only exceptions were arsenic and cadmium, which were reported at concentrations ranging from 6.42 to 8.05 mg/kg and 1.14 to 3.14 mg/kg, respectively. However, the arsenic concentrations are less than what is considered naturally occurring in the region and the cadmium concentrations only slightly exceeded the residential CHHSL. Additionally, the cadmium concentrations were comparable in all samples analyzed, suggesting that the presence is also reflective of background levels and not a concern for future land use.

- VOCs, SVOCs, organochlorine pesticides, and PCB concentrations in soil matrix samples were below laboratory detection limits in each soil sample analyzed.

- Low concentrations of 11 VOCs were reported at detectable concentrations in the two soil vapor samples. However, conservative J-E modeling indicates that VOCs are not likely to accumulate in the existing or a future hypothetical building at concentrations in excess of conservative EPA screening levels.

- Methane concentrations in soil vapor samples were below laboratory detection limits in each soil sample analyzed.

- Considered collectively, the Phase II investigation data suggest that a very minor release or releases of VOCs, likely in the vapor phase only, occurred from the laboratory sink wastewater clarifier and former chiller unit. Based on the minimal

subsurface impacts and conservatively estimated indoor air VOC concentrations, no remediation or further investigation is recommended at this time.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Deke Siren, P.G.
Project Manager

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Tables

AVOCET
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Table 1
Summary of Total Petroleum Hydrocarbons in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	C_6	C_7	C_8	C_9-C_{10}	C_{11}-C_{12}	C_{13}-C_{14}	C_{15}-C_{16}	C_{17}-C_{18}	C_{19}-C_{20}	C_{21}-C_{22}	C_{23}-C_{24}	C_{25}-C_{28}	C_{29}-C_{32}	C_{33}-C_{36}	C_{37}-C_{40}	C_{41}-C_{44}	C_6-C_{44} Total
B-1	2	06/29/15	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**5.5**
	5	06/29/15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B-2	2	06/29/15	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**34**	<4.9	<4.9	<4.9	**38**
	5	06/29/15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B-3	2	06/29/15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**6.7**	**16**	**14**	**7.7**	<5	**46**
	5	06/29/15	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<5

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8015B (M)
Units are milligrams per kilogram (mg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration

AVOCET ENVIRONMENTAL, INC.

Table 2
Volatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-Trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene
B-1	2	06/29/15	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94	<4.7	<19	<0.94
	5	06/29/15	<1	<1	<2	<10	<1	<1	<1	<2	<2	<2	<2	<2	<5	<1	<1	<1	<1	<2	<1	<1	<1	<5	<20	<1
B-2	2	06/29/15	<0.94	<0.94	<1.9	<9.4	<0.94	<0.94	<0.94	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<0.94	<0.94	<4.7	<19	<0.94
	5	06/29/15	<1	<1	<2	<10	<1	<1	<1	<2	<2	<2	<2	<2	<5.1	<1	<1	<1	<1	<2	<1	<1	<1	<5.1	<20	<1
B-3	2	06/29/15	<0.93	<0.93	<1.9	<9.3	<0.93	<0.93	<0.93	<1.9	<1.9	<1.9	<1.9	<1.9	<4.7	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<0.93	<0.93	<4.7	<19	<0.93
	5	06/29/15	<0.84	<0.84	<1.7	<8.4	<0.84	<0.84	<0.84	<1.7	<1.7	<1.7	<1.7	<1.7	<4.2	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<0.84	<0.84	<4.2	<17	<0.84
Screening Criteria																										
RSLs (Residential)			2,000	8,100,000	600	40,000,000	1,100	3,600	230,000	- -	63,000	5.1	24,000	58,000	5.3	36	1,800,000	460	1,000	780,000	- -	1,600,000	2,600	- -	27,000,000	1,600,000
RSLs (Industrial)			8,800	36,000,000	2,700	170,000,000	5,000	16,000	1,000,000	- -	930,000	110	110,000	240,000	64	160	9,300,000	2,000	4,400	12,000,000	- -	23,000,000	11,000	- -	190,000,000	23,000,000

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
- - Denotes not analyzed or screening level not available
RSLs = Regional Screening Levels after EPA, June 2015

AVOCET ENVIRONMENTAL, INC.

Table 2
Volatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	2-Hexanone	4-Chlorotoluene	4-Methyl-2-Pentanone	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	c-1,2-Dichloroethene	c-1,3-Dichloropropene	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Diisopropyl Ether (DIPE)	Ethanol	Ethylbenzene
B-1	2	06/29/15	<19	<0.94	<19	<47	<0.94	<0.94	<1.9	<0.94	<4.7	<19	<0.94	<0.94	<9.4	<0.94	<0.94	<1.9	<0.94	<19	<1.9	<0.94	<1.9	<0.94	<470	<0.94
	5	06/29/15	<20	<1	<20	<50	<1	<1	<2	<1	<5	<20	<1	<1	<10	<1	<1	<2	<1	<20	<2	<1	<2	<1	<500	<1
B-2	2	06/29/15	<19	<0.94	<19	<47	<0.94	<0.94	<1.9	<0.94	<4.7	<19	<0.94	<0.94	<9.4	<0.94	<0.94	<1.9	<0.94	<19	<1.9	<0.94	<1.9	<0.94	<470	<0.94
	5	06/29/15	<20	<1	<20	<51	<1	<1	<2	<1	<5.1	<20	<1	<1	<10	<1	<1	<2	<1	<20	<2	<1	<2	<1	<510	<1
B-3	2	06/29/15	<19	<0.93	<19	<47	<0.93	<0.93	<1.9	<0.93	<4.7	<19	<0.93	<0.93	<9.3	<0.93	<0.93	<1.9	<0.93	<19	<1.9	<0.93	<1.9	<0.93	<470	<0.93
	5	06/29/15	<17	<0.84	<17	<42	<0.84	<0.84	<1.7	<0.84	<4.2	<17	<0.84	<0.84	<8.4	<0.84	<0.84	<1.7	<0.84	<17	<1.7	<0.84	<1.7	<0.84	<420	<0.84
Screening Criteria																										
RSLs (Residential)			200,000	1,600,000	5,300,000	61,000,000	1,200	290,000	150,000	290	19,000	6,800	160,000	- -	770,000	650	280,000	14,000,000	320	110,000	750	23,000	87,000	2,200,000	- -	5,800
RSLs (Industrial)			1,300,000	23,000,000	56,000,000	670,000,000	5,100	1,800,000	630,000	1,300	86,000	30,000	2,300,000	- -	3,500,000	2,900	1,300,000	57,000,000	1,400	460,000	3,300	98,000	370,000	9,400,000	- -	25,000

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
- - Denotes not analyzed or screening level not available
RSLs = Regional Screening Levels after EPA, June 2015

AVOCET ENVIRONMENTAL, INC.

Table 2
Volatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	Ethyl-t-Butyl Ether (ETBE)	Isopropylbenzene	Methylene Chloride	Methyl-t-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-1,2-Dichloroethene	t-1,3-Dichloropropene	Tert-Amyl-Methyl Ether (TAME)	Tert-Butyl Alcohol (TBA)	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride
B-1	2	06/29/15	<0.94	<0.94	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<19	<0.94	<0.94	<0.94	<1.9	<9.4	<9.4	<0.94
	5	06/29/15	<1	<1	<10	<2	<10	<1	<2	<1	<2	<1	<1	<1	<1	<2	<1	<20	<1	<1	<1	<2	<10	<10	<1
B-2	2	06/29/15	<0.94	<0.94	<9.4	<1.9	<9.4	<0.94	<1.9	<0.94	<1.9	<0.94	<0.94	<0.94	<0.94	<1.9	<0.94	<19	<0.94	<0.94	<0.94	<1.9	<9.4	<9.4	<0.94
	5	06/29/15	<1	<1	<10	<2	<10	<1	<2	<1	<2	<1	<1	<1	<1	<2	<1	<20	<1	<1	<1	<2	<10	<10	<1
B-3	2	06/29/15	<0.93	<0.93	<9.3	<1.9	<9.3	<0.93	<1.9	<0.93	<1.9	<0.93	<0.93	<0.93	<0.93	<1.9	<0.93	<19	<0.93	<0.93	<0.93	<1.9	<9.3	<9.3	<0.93
	5	06/29/15	<0.84	<0.84	<8.4	<1.7	<8.4	<0.84	<1.7	<0.84	<1.7	<0.84	<0.84	<0.84	<0.84	<1.7	<0.84	<17	<0.84	<0.84	<0.84	<1.7	<8.4	<8.4	<0.84
Screening Criteria																									
RSLs (Residential)			- -	1,900,000	57,000	47,000	3,800	3,900,000	3,800,000	650,000	550,000	- -	7,800,000	6,000,000	1,600,000	- -	- -	- -	7,800,000	24,000	4,900,000	940	730,000	910,000	59
RSLs (Industrial)			- -	9,900,000	1,000,000	210,000	17,000	58,000,000	24,000,000	2,800,000	2,400,000	- -	120,000,000	35,000,000	23,000,000	- -	- -	- -	120,000,000	100,000	47,000,000	6,000	3,100,000	3,800,000	1,700

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8260B
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
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- - Denotes not analyzed or screening level not available
RSLs = Regional Screening Levels after EPA, June 2015

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Semivolatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3/4-Methylphenol	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl-Phenyl Ether	4-Chloro-3-Methylphenol
B-1	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<2.5	<0.5	<0.5
	5	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<2.5	<0.5	<0.5
B-2	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<2.5	<0.5	<0.5
	5	06/29/15	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<2.5	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<10	<0.51	<0.51	<2.5	<0.51	<0.51
Screening Criteria																										
RSLs (Residential)			24	1,800	- -	2.6	18	6,300	49	190	1,300	130	1.7	0.36	4,800	390	240	3,200	630	- -	1.2	- -	- -	5.1	- -	6,300
RSLs (Industrial)			110	9,300	- -	11	73	82,000	210	2,500	16,000	1,600	7.4	1.5	60,000	5,800	3,000	41,000	8,000	- -	5.1	- -	- -	66	- -	82,000
CHHSLs (Residential)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
CHHSLs (Industrial)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8270C
Units are milligrams per kilogram (mg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
- - Denotes screening level not available
RSLs = Regional Screening Levels after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Semivolatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	4-Chloroaniline	4-Chlorophenyl-Phenyl Ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Aniline	Anthracene	Azobenzene	Benzidine	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (g,h,i) Perylene	Benzo (k) Fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-Chloroethoxy) Methane	Bis(2-Chloroethyl) Ether	Bis(2-Chloroisopropyl) Ether	Bis(2-Ethylhexyl) Phthalate	Butyl Benzyl Phthalate	Chrysene	Dibenz (a,h) Anthracene
B-1	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5
B-2	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5
	5	06/29/15	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<10	<0.51	<0.51	<0.51	<0.51	<0.51	<2.5	<0.51	<0.51	<2.5	<0.51	<0.51	<0.51	<0.51	<0.51
Screening Criteria																										
RSLs (Residential)			2.7	- -	27	- -	3,600	- -	95	18,000	5.6	0.00053	0.16	0.016	0.16	- -	1.6	250,000	6,300	190	0.23	- -	39	290	16	0.016
RSLs (Industrial)			11	- -	110	- -	45,000	- -	400	230,000	26	0.01	2.9	0.29	2.9	- -	29	#########	82,000	2,500	1	- -	160	1,200	290	0.29
CHHSLs (Residential)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.038	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
CHHSLs (Industrial)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.13	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8270C.
Units are milligrams per kilogram (mg/kg).
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated.
- - Denotes screening level not available.
RSLs = Regional Screening Levels after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 3
Summary of Semivolatile Organic Compounds in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-n-Butyl Phthalate	Di-n-Octyl Phthalate	Fluoranthene	Fluorene	Hexachloro-1,3-Butadiene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno (1,2,3-c,d) Pyrene	Isophorone	Naphthalene	Nitrobenzene	N-Nitrosodimethylamine	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
B-1	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
	5	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
B-2	2	06/29/15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<0.5
	5	06/29/15	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<2.5	<0.51	<0.51	<0.51	<0.51	<2.5	<0.51	<0.51	<0.51	<2.5	<0.51	<0.51	<0.51	<0.51
Screening Criteria																									
RSLs (Residential)			73	51,000	- -	6,300	630	2,400	2,400	1.2	0.21	1.8	1.8	0.16	570	3.8	5.1	0.002	0.078	110	1	- -	19,000	1,800	78
RSLs (Industrial)			1,000	660,000	- -	82,000	8,200	30,000	30,000	5	0.96	7.5	8	2.9	2,400	17	22	0.034	0.33	470	4	- -	250,000	23,000	1,200
CHHSLs (Residential)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	4.4	- -	- -	- -	- -
CHHSLs (Industrial)			- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	13	- -	- -	- -	- -

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8270C.
Units are milligrams per kilogram (mg/kg).
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated.
- - Denotes screening level not available.
RSLs = Regional Screening Levels after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 4
Summary of Metals in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-1	2	06/29/15	<0.769	**8.05**	**191**	**0.385**	**2.26**	**17.8**	<4	**12.4**	**38.5**	**17.4**	<0.0877	**8.59**	**30.5**	<0.769	<0.256	<0.769	**38.3**	**97**
	5	06/29/15	<0.781	**7.69**	**288**	**0.352**	**1.62**	**18.3**	<4	**14.2**	**31.5**	**6.83**	**0.0925**	**7.22**	**26.3**	<0.781	<0.26	<0.781	**38.7**	**95.7**
B-2	2	06/29/15	<0.765	**7.18**	**159**	**0.415**	**3.14**	**17.5**	<4	**12.7**	**30.4**	**13.4**	<0.0806	**5.38**	**28.6**	<0.765	<0.255	<0.765	**36**	**77.9**
	5	06/29/15	<0.754	**6.69**	**193**	**0.408**	**1.14**	**18.6**	<4	**18.5**	**38**	**7.66**	<0.0806	**3.26**	**32.5**	<0.754	<0.251	<0.754	**29.7**	**85.8**
B-3	2	06/29/15	<0.773	**7.58**	**166**	**0.378**	**2.63**	**16.4**	- -	**12.4**	**31.3**	**3.51**	<0.0806	**8.73**	**25.5**	<0.773	<0.258	<0.773	**37.8**	**84.4**
	5	06/29/15	<0.761	**6.42**	**133**	**0.365**	**3**	**17.1**	- -	**8.11**	**29.4**	**3.89**	<0.0794	**4.71**	**20.5**	<0.761	<0.254	<0.761	**34.3**	**59.8**
Screening Criteria																				
RSLs (Residential)			31	0.68	15,000	160	71	- -	0.3	23	3,100	400	9.4	390	1,500	390	390	0.78	390	23,000
RSLs (Industrial)			470	3	220,000	2,300	980	- -	6.3	350	47,000	800	40	5,800	22,000	5,800	5,800	12	5,800	350,000
CHHSLs (Residential)			30	0.7	5,200	16	1.7	100,000	17	660	3,000	80	18	380	1,600	380	380	5	530	23,000
CHHSLs (Industrial)			380	2.4	63,000	190	7.5	100,000	37	3,200	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 6010B (mercury using EPA Method 7471A, and hexavalent chromium using EPA 7199)
Units are milligrams per kilogram (mg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes screening level not available
RSLs = Regional Screening Level after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 5
Summary of Polychlorinated Biphenyls in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
B-1	2	06/29/15	<50	<50	<50	<50	<50	<50	<50	<50	<50
	5	06/29/15	<50	<50	<50	<50	<50	<50	<50	<50	<50
B-2	2	06/29/15	<50	<50	<50	<50	<50	<50	<50	<50	<50
	5	06/29/15	<50	<50	<50	<50	<50	<50	<50	<50	<50
Screening Criteria											
RSLs (Residential)			4,100	170	170	230	230	240	240	- -	- -
RSLs (Industrial)			27,000	720	720	970	940	970	990	- -	- -
CHHSLs (Residential)			89	89	89	89	89	89	89	89	89
CHHSLs (Industrial)			300	300	300	300	300	300	300	300	300

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8082
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
- - Denotes screening level not available
RSLs = Regional Screening Levels after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 201

AVOCET ENVIRONMENTAL, INC.

Table 6
Summary of Organochlorine Pesticides in Soil Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Alpha-BHC	Beta-BHC	Chlordane	Delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC	Heptachlor	Heptachlor Epoxide	Methoxy-chlor	Toxaphene
B-1	2	06/29/15	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
	5	06/29/15	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
B-2	2	06/29/15	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
	5	06/29/15	<5	<5	<5	<5	<10	<5	<50	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<100
Screening Criteria																						
RSLs (Residential)			2,300	2,000	1,900	39	86	300	- -	- -	34	- -	- -	- -	19,000	- -	- -	570	130	70	320,000	490
RSLs (Industrial)			9,600	9,300	8,500	180	360	1,300	- -	- -	140	- -	- -	- -	250,000	- -	- -	2,500	630	330	4,100,000	2,100
CHHSLs (Residential)			2,300	1,600	1,600	33	- -	- -	430	- -	35	- -	- -	- -	21,000	- -	- -	500	130	- -	340,000	460
CHHSLs (Industrial)			9,000	6,300	6,300	130	- -	- -	1,700	- -	130	- -	- -	- -	230,000	- -	- -	2,000	520	- -	3,800,000	1,800

Notes:
Analyses conducted by Eurofins Calscience, Inc. using EPA Method 8081A
Units are micrograms per kilogram (µg/kg)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
- - Denotes screening level not available
RSLs = Regional Screening Levels after EPA, June 2015
CHHSLs = California Human Health Screening Levels after Office of Environmental Health Hazard Assessment (OEHHA), September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 7
Summary of Volatile Organic Compounds in Soil Vapor Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane (F113)	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane (LCC)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (EDC)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone (MBK)	4-Ethyltoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane
B-1	5	07/01/15	<7	<5.5	<7	<5.5	<7.7	<4.1	<4	<5.5	<38	<5	<7.8	<12	<4.1	<9.4	<5	<12	<12	<30	<8.3	<5	<8.3	**53**	<3.2	<6.8	<10	<16
B-3	5	07/01/15	<7	<5.5	<7	<5.5	<7.7	<4.1	<4	<5.5	<38	**9.8**	<7.8	<12	<4.1	<9.4	<5	<12	<12	<30	<8.3	<5	<8.3	**40**	**3.6**	<6.8	<10	<16
Screening Criteria																												
CHHSLs (Residential)			- -	990,000	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	50	- -	- -	- -	- -	- -	- -	- -	- -	- -	36	- -	- -	- -
CHHSLs (Industrial)			- -	2,800,000	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	170	- -	- -	- -	- -	- -	- -	- -	- -	- -	120	- -	- -	- -

Object ID	Sample Depth (feet bgs)	Sample Date	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorodifluoromethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dichlorodifluoromethane (F12)	Dichlorotetrafluoroethane (F114)	Ethylbenzene	Hexachlorobutadiene	m,p-Xylene	Methylene chloride (Dichloromethane)	o-Xylene	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (F11)	Vinyl chloride
B-1	5	07/01/15	**18**	<6.4	<4.7	<7.2	<8	**140**	<2.1	<4	<4.6	<8.6	<5	<7.1	**4.9**	<54	**12**	<3.5	<4.4	<4.3	**19**	**21**	<8	<4.6	<5.5	<5.6	<2.6
B-3	5	07/01/15	**80**	<6.4	<4.7	**14**	<8	<4.9	<2.1	<4	<4.6	<8.6	<5	<7.1	**5.8**	<54	**15**	<3.5	**4.7**	<4.3	<6.9	**21**	<8	<4.6	<5.5	<5.6	<2.6
Screening Criteria																											
CHHSLs (Residential)			- -	25	- -	- -	- -	- -	- -	16,000	- -	- -	- -	- -	420	- -	320,000	- -	320,000	- -	180	140,000	32,000	- -	530	- -	13
CHHSLs (Industrial)			- -	85	- -	- -	- -	- -	- -	44,000	- -	- -	- -	- -	1,400	- -	890,000	- -	880,000	- -	600	380,000	89,000	- -	1,800	- -	45

Notes:
Analyses conducted by H&P Mobile Geochemistry, Inc. using EPA Method TO-15
Units are micrograms per cubic meter ($\mu g/m^3$)
bgs = below ground surface
< Denotes nondetected at the Reporting Limit (RL) indicated
Bold type indicates reported at detectable concentration
- - Denotes screening level not available
CHHSLs = California Human Health Screening Levels after Cal/EPA, September 23, 2010

AVOCET ENVIRONMENTAL, INC.

Table 8
Summary of Methane and Fixed Gases in Soil Vapor Samples
1449 West Temple Street
Los Angeles, California

Object ID	Sample Depth (feet bgs)	Sample Date	Methane (ppmv)	Fixed Gases (%)			Hydrogen Sulfide (ppmv)
				Carbon Dioxide	Oxygen	Nitrogen	
B-1	5	07/01/15	<10	**1.7**	**19**	**79**	0.000
B-3	5	07/01/15	<10	**3.9**	**15**	**81**	0.000

Notes:

Analyses conducted by H&P Mobile Geochemistry, Inc. using EPA Method 8015M (methane) and ASTM D1945 (fixed gases)
Hydrogen sulfide field tested by H&P Mobile Geochemistry, Inc. using a Jerome 631X GFD H2S Meter
bgs = below ground surface
ppmv = parts per million per volume
< Denotes nondetected at the Reporting Limit (RL) indicated

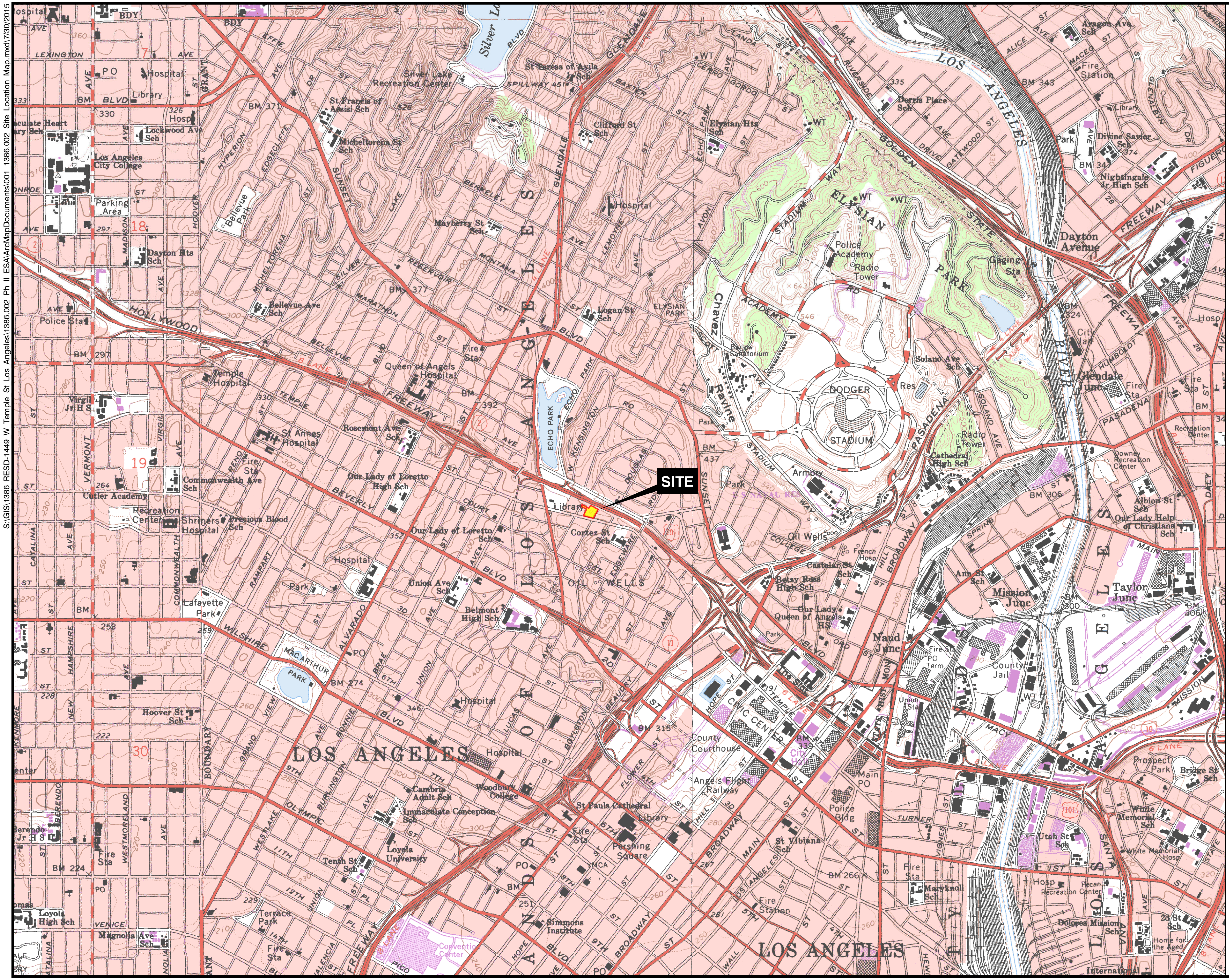
Table 9
J-E Model Input Parameters
1449 West Temple Street
Los Angeles, California

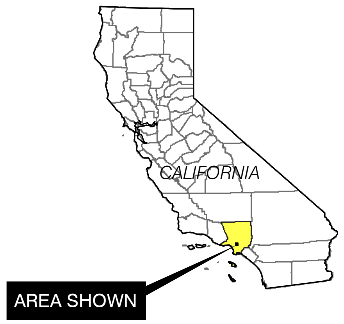
Parameter	Value/Type/Units	Comments
Soil Layer A Concrete Floor Slab Gravel Subbase	 Thickness: 25 cm Thickness:15 cm	Modeled as 40 cm of sand Dry bulk density: 1.66 g/cm3 Total porosity: 0.375 Water-filled porosity: 0.054
Soil Layer B Engineered Fill	 Thickness: 127 cm	Fill default parameters, OEHHA (2005)
Soil Temperature	18.6ºC	OEHHA (2005)
Building Length	1,000 cm (32.8 feet)	OEHHA (2005)
Building Width	1,000 cm (32.8 feet)	OEHHA (2005)
Building Area	1,076 square feet	
First Floor Ceiling Height	244 cm (8 feet)	OEHHA (2005)
Air Exchange Rate	1.0/hour	OEHHA (2005)

Figures

AVOCET
ENVIRONMENTAL, INC.

S:\GIS\1386 RESD-1449 W Temple St Los Angeles\1386.002 Ph II ESA\ArcMap\Documents\001 1386.002 Site Location Map.mxd\7/30/2015





REFERENCE:
7.5 MINUTE USGS TOPOGRAPHIC MAPS OF HOLLYWOOD AND LOS ANGELES, CALIFORNIA
DATED: 1966
PHOTOREVISED: 1981

0 2,000 4,000
FEET

FIGURE 1

SITE LOCATION MAP

1449 W. TEMPLE AVENUE
LOS ANGELES, CALIFORNIA
PREPARED FOR
CALIFORNIA DEPARTMENT OF GENERAL SERVICES

AVOCET ENVIRONMENTAL, INC.

S:\GIS\1386 RESD-1449 W. Temple St Los Angeles\1386.002 Ph. II ESA\ArcMapDocuments\002_1386.002_Site Plan.mxd\8/18/2015

REFERENCE:
URBAN IMAGES.
DATED: 03/12/2004

EXPLANATION

- SOIL SAMPLE LOCATION
- SOIL AND SOIL GAS SAMPLE LOCATION

0 50 100 FEET

FIGURE 2

SITE PLAN

1449 W. TEMPLE STREET
LOS ANGELES, CALIFORNIA

PREPARED FOR

CALIFORNIA DEPARTMENT OF
GENERAL SERVICES

AVOCET ENVIRONMENTAL, INC.

Appendix A

Boring Logs

AVOCET
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Key to Soil Symbols and Terms

Major Divisions		Graphic Log	USCS Symbols	Typical Names
Coarse-Grained Soils (More than half of material is larger than No. 200 sieve)				
GRAVELS (More than half of coarse fraction is larger than No. 4 sieve.)	Clean Gravel (little or no fines)		GW	Well graded gravels, gravel-sand mixtures
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
	Gravels with Fines (appreciable amounts of fines)		GM	Silty gravels, gravel-sand silt mixtures
			GC	Clayey gravels, gravel-sand, clay mixture
SANDS (More than half of coarse fraction is smaller than No. 4 sieve)	Clean Sands (little or no fines)		SW	Well graded sands, gravelly sand, little or no fines
			SP	Poorly graded sands, gravelly sands, little or no fines
	Sands and Fines (appreciable amounts of fines)		SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (More than half of material is smaller than No. 200 Sieve)				
SILTS AND CLAYS (Liquid limit less than 50)			ML	Silts and very fine sands, rock-flour, silty or clayey fine sands, or clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS (Liquid limit greater than 50)			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			Pt	Peat and other highly organic soils

Terms used in this report for describing soils according to their texture or grain size distributions are generally in accordance with the Unified Soil Classification System

Terms Describing Density and Consistency

COARSE-GRAINED SOILS (major portion retained on No. 200 sieve) include (1) clean gravels, (2) silty or clayey gravels, and (3) silty, clayey or gravelly sand. Relative density is related to SPT blow count corrected for overburden pressure or drive energy.

Relative Density	SPT "N" Value (Blows/ft)	Relative Density %	Characteristic
Very Loose	0 - 4	0 - 15	Easily penetrated with 1/2-inch reinforcing rod pushed by hand
Loose	4 - 10	15 - 40	Easily penetrated with 1/2-inch reinforcing rod pushed by hand
Medium Dense	10 - 30	40 - 70	Penetrated a foot with 1/2-inch reinforcing rod driven with a 5-lb hammer
Dense	30 - 50	70 - 85	Penetrated a foot with 1/2-inch reinforcing rod driven with a 5-lb hammer
Very Dense	>50	85 - 100	Penetrated only a few inches with 1/2-inch reinforcing rod driven with a 5-lb hammer

FINE-GRAINED SOILS (major portion retained on No. 200 sieve) include (1) inorganic and organic silts and clays, (2) gravelly, sandy or silty clays, and (3) clayey silts. Consistency is rated according to shearing strength, as indicated by penetrometer readings, direct shear, or SPT blow count.

Consistency	SPT "N" Value (Blows/ft)	Characteristic
Very Soft	0 - 2	Easily penetrated a few inches by fist
Soft	2 - 4	Easily penetrated a few inches by thumb
Firm	4 - 8	Penetrated a few inches by thumb with effort
Stiff	8 - 16	Readily indented by thumb, but penetrated only with great effort
Very Stiff	16 - 32	Readily indented by thumbnail
Hard	>32	Indented with difficulty

Note: Characteristics and blow counts considered uncemented deposits only. Blow count (blow/foot) is by Standard Penetration Test (SPT): 2-inch diameter sampler driven by 140-pound hammer free falling 30-inches.

Terms Characterizing Soil Structure

SLICKENSIDED	Having inclined planes of weakness that are slick and glossy in appearance
FISSURED	Having shrinkage cracks, frequently filled with fine sand or silt, usually vertical
LAMINATED	Composed of thin layers of varying color and texture
INTERBEDDED	Composed of alternate layers of different soil types
CALCAREOUS	Containing appreciable quantities of calcium carbonate
WELL GRADED	Wide range in grain sizes and substantial amounts of intermediate particle sizes
POORLY GRADED	Mostly one grain size, or having a range of sizes without some intermediate sizes
POROUS	Having visibly apparent void spaces through which water, air, or light may pass

Soil Moisture

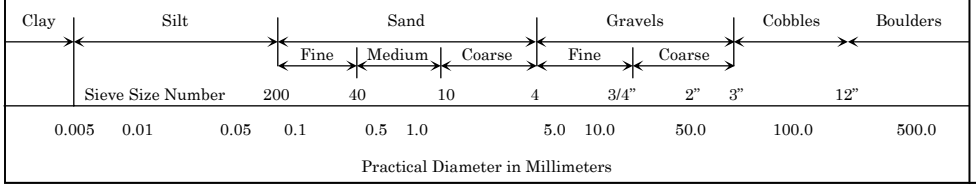
From low to high, soil moisture is indicated by:

DRY	No apparent moisture
SLIGHTLY MOIST	Slight moisture content (well below optimum)
MOIST	Near optimum moisture content for compaction
VERY MOIST	Over optimum moisture content
WET	Water completely fills soil voids (e.g. below water table)

Size Proportions

DESIGNATION	PERCENT BY WEIGHT
TRACE	1 to 10
LITTLE	10 to 20
SOME	20 to 30

Grain Size Distribution



AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. B-1

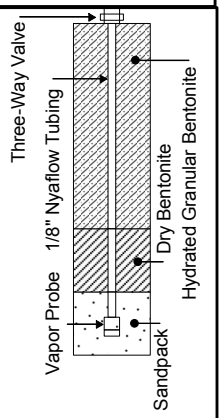
Logged By: Darren Brandner, P.E.
Checked By: Deke Siren, P.G.
Driller: H&P Mobile Geochemistry
Drilling Method: Hand Auger
Sampling Method: 2"x6" Sampler
Sampling Interval: 2 and 5 feet

Date Started: 6/29/15
Date Completed: 6/29/15
Northing: 6,483,545.4 feet
Easting: 1,847,115.4 feet
Elevation: -
Boring Depth: 5.5 feet

Client: CA Department of General Services
Site: 1449 West Temple Street
Location: Los Angeles, California
Project No.:1386.002

Depth (feet)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	DESCRIPTION
0					ML	Brownish yellow (10YR 6/6), SANDY SILT with GRAVEL, dry, fine-grained, some subrounded gravel to 2-inches, trace rootlets, no staining, no odor.
2	B-1;2'	▶◀	0			
4					SM	Brownish yellow (10YR 6/6), SILTY SAND, dry, very fine-grained, trace clay, trace medium-grained sand, partially cemented, no staining, no odor.
	B-1;5'	▶◀	0			
6						
8						
10						
12						
14						
16						
18						
20						

Well Completion Details



Notes: Total depth at 5.5 feet. Groundwater not encountered.
Boring completed with a temporary soil vapor probe installed at 5 feet bgs.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. B-2

Logged By: Darren Brandner, P.E.
Checked By: Deke Siren, P.G.
Driller: H&P Mobile Geochemistry
Drilling Method: Hand Auger
Sampling Method: 2"x6" Sampler
Sampling Interval: 2 and 5 feet

Date Started: 6/29/15
Date Completed: 6/29/15
Northing: 6,483,555.6 feet
Easting: 1,847,110.9 feet
Elevation: -
Boring Depth: 5.5 feet

Client: CA Department of General Services
Site: 1449 West Temple Street
Location: Los Angeles, California
Project No.:1386.002

Depth (feet)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	DESCRIPTION
0					ML	Brownish yellow (10YR 6/6), SANDY SILT with GRAVEL, dry, fine-grained, some subrounded gravel to 2-inches, trace rootlets, no staining, no odor.
2	B-2;2'	▶◀	0			
4					SM	Brownish yellow (10YR 6/6), SILTY SAND, dry, very fine-grained, trace clay, trace medium-grained sand, partially cemented, no staining, no odor.
	B-2;5'	▶◀	0			
6						
8						
10						
12						
14						
16						
18						
20						

Notes: Total depth at 5.5 feet. Groundwater not encountered.

AVOCET ENVIRONMENTAL, INC.

LITHOLOGIC LOG

BORING No. B-3

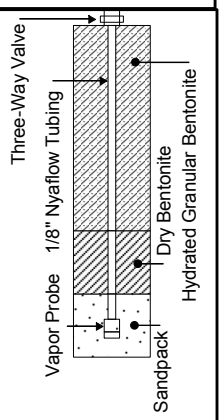
Logged By: Darren Brandner, P.E.
Checked By: Deke Siren, P.G.
Driller: H&P Mobile Geochemistry
Drilling Method: Hand Auger
Sampling Method: 2"x6" Sampler
Sampling Interval: 2 and 5 feet

Date Started: 6/29/15
Date Completed: 6/29/15
Northing: 6,483,661.2 feet
Easting: 1,847,192.4 feet
Elevation: -
Boring Depth: 5.5 feet

Client: CA Department of General Services
Site: 1449 West Temple Street
Location: Los Angeles, California
Project No.:1386.002

Depth (feet)	Sample Number	Sample Depth	PID (ppm)	Graphic Log	Soil Classification	DESCRIPTION
0						6" Asphalt
2	B-3;2'	▬	0		ML	Brown (10YR 5/3), SANDY SILT, slightly moist, stiff, very fine-grained, partly cemented, no staining, no odor.
4	B-3;5'	▬	0		SM/ML	Yellowish brown (10YR 5/4), SANDY SILT to SILTY SAND, slightly moist, very stiff, very fine-grained, slightly cemented, no staining, no odor.
6						
8						
10						
12						
14						
16						
18						
20						

Well Completion Details



Notes: Total depth at 5.5 feet. Groundwater not encountered.
Boring completed with a temporary soil vapor probe installed at 5 feet bgs.

AVOCET ENVIRONMENTAL, INC.

Appendix B

Laboratory Analytical Reports

AVOCET
ENVIRONMENTAL, INC.

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WORK ORDER NUMBER: 15-06-2224

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Avocet Environmental, Inc.

Client Project Name: DGS- Temple Street / 1386.001

Attention: Deke Siren
1 Technology Drive, Suite C515
Irvine, CA 92618-5302

Approved for release on 07/07/2015 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

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

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Work Order Number: 15-06-2224

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Work Order Narrative

Work Order: 15-06-2224 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/29/15. They were assigned to Work Order 15-06-2224.

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:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order:	15-06-2224
		Project Name:	DGS- Temple Street / 1386.001
		PO Number:	
		Date/Time Received:	06/29/15 15:10
		Number of Containers:	30
Attn:	Deke Siren		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
B-1;2'	15-06-2224-1	06/29/15 10:20	5	Solid
B-1;5'	15-06-2224-2	06/29/15 10:35	5	Solid
B-2;2'	15-06-2224-3	06/29/15 10:42	5	Solid
B-2;5'	15-06-2224-4	06/29/15 10:50	5	Solid
B-3;2'	15-06-2224-5	06/29/15 13:35	5	Solid
B-3;5'	15-06-2224-6	06/29/15 13:50	5	Solid

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	15-06-2224 DGS- Temple Street / 1386.001 06/29/15
Attn:	Deke Siren		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-1;2' (15-06-2224-1)						
Arsenic	8.05		0.769	mg/kg	EPA 6010B	EPA 3050B
Barium	191		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.385		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.26		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.8		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	38.5		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	17.4		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	8.59		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	30.5		0.256	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.3		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	97.0		1.03	mg/kg	EPA 6010B	EPA 3050B
C6-C44 Total	5.5		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B-1;5' (15-06-2224-2)						
Arsenic	7.69		0.781	mg/kg	EPA 6010B	EPA 3050B
Barium	288		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.352		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.62		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	14.2		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	31.5		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	6.83		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	7.22		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	26.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	38.7		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	95.7		1.04	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0925		0.0820	mg/kg	EPA 7471A	EPA 7471A Total

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	15-06-2224 DGS- Temple Street / 1386.001 06/29/15
Attn:	Deke Siren		Page 2 of 3

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-2;2' (15-06-2224-3)						
Arsenic	7.18		0.765	mg/kg	EPA 6010B	EPA 3050B
Barium	159		0.510	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.415		0.255	mg/kg	EPA 6010B	EPA 3050B
Cadmium	3.14		0.510	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.5		0.255	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.7		0.255	mg/kg	EPA 6010B	EPA 3050B
Copper	30.4		0.510	mg/kg	EPA 6010B	EPA 3050B
Lead	13.4		0.510	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	5.38		0.255	mg/kg	EPA 6010B	EPA 3050B
Nickel	28.6		0.255	mg/kg	EPA 6010B	EPA 3050B
Vanadium	36.0		0.255	mg/kg	EPA 6010B	EPA 3050B
Zinc	77.9		1.02	mg/kg	EPA 6010B	EPA 3050B
C29-C32	34		4.9	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	38		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B-2;5' (15-06-2224-4)						
Arsenic	6.69		0.754	mg/kg	EPA 6010B	EPA 3050B
Barium	193		0.503	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.408		0.251	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.14		0.503	mg/kg	EPA 6010B	EPA 3050B
Chromium	18.6		0.251	mg/kg	EPA 6010B	EPA 3050B
Cobalt	18.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Copper	38.0		0.503	mg/kg	EPA 6010B	EPA 3050B
Lead	7.66		0.503	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.26		0.251	mg/kg	EPA 6010B	EPA 3050B
Nickel	32.5		0.251	mg/kg	EPA 6010B	EPA 3050B
Vanadium	29.7		0.251	mg/kg	EPA 6010B	EPA 3050B
Zinc	85.8		1.01	mg/kg	EPA 6010B	EPA 3050B

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Detections Summary

Client:	Avocet Environmental, Inc. 1 Technology Drive, Suite C515 Irvine, CA 92618-5302	Work Order: Project Name: Received:	15-06-2224 DGS- Temple Street / 1386.001 06/29/15
Attn:	Deke Siren		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
B-3;2' (15-06-2224-5)						
Arsenic	7.58		0.773	mg/kg	EPA 6010B	EPA 3050B
Barium	166		0.515	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.378		0.258	mg/kg	EPA 6010B	EPA 3050B
Cadmium	2.63		0.515	mg/kg	EPA 6010B	EPA 3050B
Chromium	16.4		0.258	mg/kg	EPA 6010B	EPA 3050B
Cobalt	12.4		0.258	mg/kg	EPA 6010B	EPA 3050B
Copper	31.3		0.515	mg/kg	EPA 6010B	EPA 3050B
Lead	3.51		0.515	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	8.73		0.258	mg/kg	EPA 6010B	EPA 3050B
Nickel	25.5		0.258	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.8		0.258	mg/kg	EPA 6010B	EPA 3050B
Zinc	84.4		1.03	mg/kg	EPA 6010B	EPA 3050B
C25-C28	6.7		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C29-C32	16		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C33-C36	14		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C37-C40	7.7		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
C6-C44 Total	46		5.0	mg/kg	EPA 8015B (M)	EPA 3550B
B-3;5' (15-06-2224-6)						
Arsenic	6.42		0.761	mg/kg	EPA 6010B	EPA 3050B
Barium	133		0.508	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.365		0.254	mg/kg	EPA 6010B	EPA 3050B
Cadmium	3.00		0.508	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.1		0.254	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.11		0.254	mg/kg	EPA 6010B	EPA 3050B
Copper	29.4		0.508	mg/kg	EPA 6010B	EPA 3050B
Lead	3.89		0.508	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	4.71		0.254	mg/kg	EPA 6010B	EPA 3050B
Nickel	20.5		0.254	mg/kg	EPA 6010B	EPA 3050B
Vanadium	34.3		0.254	mg/kg	EPA 6010B	EPA 3050B
Zinc	59.8		1.02	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3060A
		Method:	EPA 7199
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 21:24**	**150629L01P**

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

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	4000	10.0	

B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 21:33**	**150629L01P**

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

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	4000	10.0	

B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 21:41**	**150629L01P**

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

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	4000	10.0	

B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 21:49**	**150629L01P**

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

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	4000	10.0	

Method Blank	**099-05-125-2797**	**N/A**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 18:18**	**150629L01P**

Parameter	Result	RL	DF	Qualifiers
Chromium, Hexavalent	ND	400	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 22:00**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	5.5	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	68	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 22:17**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	66	61-145	

Return to Contents

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**GC 47**	**06/29/15**	**06/30/15 14:28**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	34	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	38	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	64	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 22:52**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	69	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;2'	**15-06-2224-5-A**	**06/29/15 13:35**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 23:10**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	6.7	5.0	1.00	
C29-C32	16	5.0	1.00	
C33-C36	14	5.0	1.00	
C37-C40	7.7	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	46	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	74	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;5'	**15-06-2224-6-A**	**06/29/15 13:50**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 23:45**	**150629B12**

Comment(s): - The total concentration includes individual carbon range concentrations (estimated), if any, below the RL reported as ND.

Parameter	Result	RL	DF	Qualifiers
C6	ND	4.9	1.00	
C7	ND	4.9	1.00	
C8	ND	4.9	1.00	
C9-C10	ND	4.9	1.00	
C11-C12	ND	4.9	1.00	
C13-C14	ND	4.9	1.00	
C15-C16	ND	4.9	1.00	
C17-C18	ND	4.9	1.00	
C19-C20	ND	4.9	1.00	
C21-C22	ND	4.9	1.00	
C23-C24	ND	4.9	1.00	
C25-C28	ND	4.9	1.00	
C29-C32	ND	4.9	1.00	
C33-C36	ND	4.9	1.00	
C37-C40	ND	4.9	1.00	
C41-C44	ND	4.9	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	76	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-490-1650**	**N/A**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 19:23**	**150629B12**

Parameter	Result	RL	DF	Qualifiers
C6	ND	5.0	1.00	
C7	ND	5.0	1.00	
C8	ND	5.0	1.00	
C9-C10	ND	5.0	1.00	
C11-C12	ND	5.0	1.00	
C13-C14	ND	5.0	1.00	
C15-C16	ND	5.0	1.00	
C17-C18	ND	5.0	1.00	
C19-C20	ND	5.0	1.00	
C21-C22	ND	5.0	1.00	
C23-C24	ND	5.0	1.00	
C25-C28	ND	5.0	1.00	
C29-C32	ND	5.0	1.00	
C33-C36	ND	5.0	1.00	
C37-C40	ND	5.0	1.00	
C41-C44	ND	5.0	1.00	
C6-C44 Total	ND	5.0	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	74	61-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 13:58**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	8.05	0.769	1.03	
Barium	191	0.513	1.03	
Beryllium	0.385	0.256	1.03	
Cadmium	2.26	0.513	1.03	
Chromium	17.8	0.256	1.03	
Cobalt	12.4	0.256	1.03	
Copper	38.5	0.513	1.03	
Lead	17.4	0.513	1.03	
Molybdenum	8.59	0.256	1.03	
Nickel	30.5	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	38.3	0.256	1.03	
Zinc	97.0	1.03	1.03	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 13:59**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	7.69	0.781	1.04	
Barium	288	0.521	1.04	
Beryllium	0.352	0.260	1.04	
Cadmium	1.62	0.521	1.04	
Chromium	18.3	0.260	1.04	
Cobalt	14.2	0.260	1.04	
Copper	31.5	0.521	1.04	
Lead	6.83	0.521	1.04	
Molybdenum	7.22	0.260	1.04	
Nickel	26.3	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	38.7	0.260	1.04	
Zinc	95.7	1.04	1.04	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 14:00**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.765	1.02	
Arsenic	7.18	0.765	1.02	
Barium	159	0.510	1.02	
Beryllium	0.415	0.255	1.02	
Cadmium	3.14	0.510	1.02	
Chromium	17.5	0.255	1.02	
Cobalt	12.7	0.255	1.02	
Copper	30.4	0.510	1.02	
Lead	13.4	0.510	1.02	
Molybdenum	5.38	0.255	1.02	
Nickel	28.6	0.255	1.02	
Selenium	ND	0.765	1.02	
Silver	ND	0.255	1.02	
Thallium	ND	0.765	1.02	
Vanadium	36.0	0.255	1.02	
Zinc	77.9	1.02	1.02	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 14:07**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.754	1.01	
Arsenic	6.69	0.754	1.01	
Barium	193	0.503	1.01	
Beryllium	0.408	0.251	1.01	
Cadmium	1.14	0.503	1.01	
Chromium	18.6	0.251	1.01	
Cobalt	18.5	0.251	1.01	
Copper	38.0	0.503	1.01	
Lead	7.66	0.503	1.01	
Molybdenum	3.26	0.251	1.01	
Nickel	32.5	0.251	1.01	
Selenium	ND	0.754	1.01	
Silver	ND	0.251	1.01	
Thallium	ND	0.754	1.01	
Vanadium	29.7	0.251	1.01	
Zinc	85.8	1.01	1.01	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;2'	**15-06-2224-5-A**	**06/29/15 13:35**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 14:08**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.773	1.03	
Arsenic	7.58	0.773	1.03	
Barium	166	0.515	1.03	
Beryllium	0.378	0.258	1.03	
Cadmium	2.63	0.515	1.03	
Chromium	16.4	0.258	1.03	
Cobalt	12.4	0.258	1.03	
Copper	31.3	0.515	1.03	
Lead	3.51	0.515	1.03	
Molybdenum	8.73	0.258	1.03	
Nickel	25.5	0.258	1.03	
Selenium	ND	0.773	1.03	
Silver	ND	0.258	1.03	
Thallium	ND	0.773	1.03	
Vanadium	37.8	0.258	1.03	
Zinc	84.4	1.03	1.03	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;5'	**15-06-2224-6-A**	**06/29/15 13:50**	**Solid**	**ICP 7300**	**06/29/15**	**07/01/15 14:09**	**150629L02**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.761	1.02	
Arsenic	6.42	0.761	1.02	
Barium	133	0.508	1.02	
Beryllium	0.365	0.254	1.02	
Cadmium	3.00	0.508	1.02	
Chromium	17.1	0.254	1.02	
Cobalt	8.11	0.254	1.02	
Copper	29.4	0.508	1.02	
Lead	3.89	0.508	1.02	
Molybdenum	4.71	0.254	1.02	
Nickel	20.5	0.254	1.02	
Selenium	ND	0.761	1.02	
Silver	ND	0.254	1.02	
Thallium	ND	0.761	1.02	
Vanadium	34.3	0.254	1.02	
Zinc	59.8	1.02	1.02	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-21335**	**N/A**	**Solid**	**ICP 7300**	**06/29/15**	**06/30/15 15:02**	**150629L02**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 18:52**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 18:54**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	0.0925	0.0820	1.00	

B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 18:56**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 18:58**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B-3;2'	**15-06-2224-5-A**	**06/29/15 13:35**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 19:01**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

B-3;5'	**15-06-2224-6-A**	**06/29/15 13:50**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 19:03**	**150630L05**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0794	1.00	

Method Blank	**099-16-272-1410**	**N/A**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 17:36**	**150630L05**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 17:37**	**150629L07**

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	78	24-168	
2,4,5,6-Tetrachloro-m-Xylene	81	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 17:51**	**150629L07**

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	99	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 18:05**	**150629L07**

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	86	24-168	
2,4,5,6-Tetrachloro-m-Xylene	88	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 18:20**	**150629L07**

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	98	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-537-2152**	**N/A**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 15:08**	**150629L07**

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	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**GC 31**	**06/29/15**	**06/30/15 12:30**	**150629L06**

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	98	24-168	
2,4,5,6-Tetrachloro-m-Xylene	80	25-145	

B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**GC 31**	**06/29/15**	**06/30/15 12:49**	**150629L06**

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	119	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**GC 31**	**06/29/15**	**06/30/15 13:08**	**150629L06**

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	107	24-168	
2,4,5,6-Tetrachloro-m-Xylene	85	25-145	

B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**GC 31**	**06/29/15**	**06/30/15 13:27**	**150629L06**

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	115	24-168	
2,4,5,6-Tetrachloro-m-Xylene	97	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			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	**099-12-535-3305**	**N/A**	**Solid**	**GC 31**	**06/29/15**	**06/29/15 21:58**	**150629L06**

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	118	25-145	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-A**	**06/29/15 10:20**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 17:15**	**150630L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 15

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	71	27-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: DGS- Temple Street / 1386.001		Page 3 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	72	25-120	
Nitrobenzene-d5	64	33-123	
p-Terphenyl-d14	76	27-159	
Phenol-d6	77	26-122	
2,4,6-Tribromophenol	80	18-138	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 4 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;5'	**15-06-2224-2-A**	**06/29/15 10:35**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 17:33**	**150630L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 5 of 15

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	27-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: DGS- Temple Street / 1386.001		Page 6 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	66	25-120	
Nitrobenzene-d5	59	33-123	
p-Terphenyl-d14	72	27-159	
Phenol-d6	72	26-122	
2,4,6-Tribromophenol	74	18-138	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 7 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-A**	**06/29/15 10:42**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 16:39**	**150630L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 8 of 15

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	70	27-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: DGS- Temple Street / 1386.001		Page 9 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	65	25-120	
Nitrobenzene-d5	63	33-123	
p-Terphenyl-d14	75	27-159	
Phenol-d6	68	26-122	
2,4,6-Tribromophenol	74	18-138	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;5'	**15-06-2224-4-A**	**06/29/15 10:50**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 16:57**	**150630L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.51	1.00	
Acenaphthylene	ND	0.51	1.00	
Aniline	ND	0.51	1.00	
Anthracene	ND	0.51	1.00	
Azobenzene	ND	0.51	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.51	1.00	
Benzo (a) Pyrene	ND	0.51	1.00	
Benzo (b) Fluoranthene	ND	0.51	1.00	
Benzo (g,h,i) Perylene	ND	0.51	1.00	
Benzo (k) Fluoranthene	ND	0.51	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.51	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.51	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.51	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.51	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.51	1.00	
Butyl Benzyl Phthalate	ND	0.51	1.00	
4-Chloro-3-Methylphenol	ND	0.51	1.00	
4-Chloroaniline	ND	0.51	1.00	
2-Chloronaphthalene	ND	0.51	1.00	
2-Chlorophenol	ND	0.51	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.51	1.00	
Chrysene	ND	0.51	1.00	
Di-n-Butyl Phthalate	ND	0.51	1.00	
Di-n-Octyl Phthalate	ND	0.51	1.00	
Dibenz (a,h) Anthracene	ND	0.51	1.00	
Dibenzofuran	ND	0.51	1.00	
1,2-Dichlorobenzene	ND	0.51	1.00	
1,3-Dichlorobenzene	ND	0.51	1.00	
1,4-Dichlorobenzene	ND	0.51	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.51	1.00	
Diethyl Phthalate	ND	0.51	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 11 of 15

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.51	1.00	
2,4-Dimethylphenol	ND	0.51	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.51	1.00	
2,6-Dinitrotoluene	ND	0.51	1.00	
Fluoranthene	ND	0.51	1.00	
Fluorene	ND	0.51	1.00	
Hexachloro-1,3-Butadiene	ND	0.51	1.00	
Hexachlorobenzene	ND	0.51	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.51	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.51	1.00	
Isophorone	ND	0.51	1.00	
2-Methylnaphthalene	ND	0.51	1.00	
1-Methylnaphthalene	ND	0.51	1.00	
2-Methylphenol	ND	0.51	1.00	
3/4-Methylphenol	ND	0.51	1.00	
N-Nitroso-di-n-propylamine	ND	0.51	1.00	
N-Nitrosodimethylamine	ND	0.51	1.00	
N-Nitrosodiphenylamine	ND	0.51	1.00	
Naphthalene	ND	0.51	1.00	
4-Nitroaniline	ND	0.51	1.00	
3-Nitroaniline	ND	0.51	1.00	
2-Nitroaniline	ND	0.51	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.51	1.00	
2-Nitrophenol	ND	0.51	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.51	1.00	
Phenol	ND	0.51	1.00	
Pyrene	ND	0.51	1.00	
Pyridine	ND	0.51	1.00	
1,2,4-Trichlorobenzene	ND	0.51	1.00	
2,4,6-Trichlorophenol	ND	0.51	1.00	
2,4,5-Trichlorophenol	ND	0.51	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	67	27-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: DGS- Temple Street / 1386.001		Page 12 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	64	25-120	
Nitrobenzene-d5	61	33-123	
p-Terphenyl-d14	69	27-159	
Phenol-d6	69	26-122	
2,4,6-Tribromophenol	71	18-138	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 13 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-549-3330**	**N/A**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 15:25**	**150630L02**

Parameter	Result	RL	DF	Qualifiers
Acenaphthene	ND	0.50	1.00	
Acenaphthylene	ND	0.50	1.00	
Aniline	ND	0.50	1.00	
Anthracene	ND	0.50	1.00	
Azobenzene	ND	0.50	1.00	
Benzidine	ND	10	1.00	
Benzo (a) Anthracene	ND	0.50	1.00	
Benzo (a) Pyrene	ND	0.50	1.00	
Benzo (b) Fluoranthene	ND	0.50	1.00	
Benzo (g,h,i) Perylene	ND	0.50	1.00	
Benzo (k) Fluoranthene	ND	0.50	1.00	
Benzoic Acid	ND	2.5	1.00	
Benzyl Alcohol	ND	0.50	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	1.00	
Butyl Benzyl Phthalate	ND	0.50	1.00	
4-Chloro-3-Methylphenol	ND	0.50	1.00	
4-Chloroaniline	ND	0.50	1.00	
2-Chloronaphthalene	ND	0.50	1.00	
2-Chlorophenol	ND	0.50	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	1.00	
Chrysene	ND	0.50	1.00	
Di-n-Butyl Phthalate	ND	0.50	1.00	
Di-n-Octyl Phthalate	ND	0.50	1.00	
Dibenz (a,h) Anthracene	ND	0.50	1.00	
Dibenzofuran	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,4-Dichlorobenzene	ND	0.50	1.00	
3,3'-Dichlorobenzidine	ND	10	1.00	
2,4-Dichlorophenol	ND	0.50	1.00	
Diethyl Phthalate	ND	0.50	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: DGS- Temple Street / 1386.001			Page 14 of 15

Parameter	Result	RL	DF	Qualifiers
Dimethyl Phthalate	ND	0.50	1.00	
2,4-Dimethylphenol	ND	0.50	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	1.00	
2,4-Dinitrophenol	ND	2.5	1.00	
2,4-Dinitrotoluene	ND	0.50	1.00	
2,6-Dinitrotoluene	ND	0.50	1.00	
Fluoranthene	ND	0.50	1.00	
Fluorene	ND	0.50	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	1.00	
Hexachlorobenzene	ND	0.50	1.00	
Hexachlorocyclopentadiene	ND	2.5	1.00	
Hexachloroethane	ND	0.50	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	1.00	
Isophorone	ND	0.50	1.00	
2-Methylnaphthalene	ND	0.50	1.00	
1-Methylnaphthalene	ND	0.50	1.00	
2-Methylphenol	ND	0.50	1.00	
3/4-Methylphenol	ND	0.50	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	1.00	
N-Nitrosodimethylamine	ND	0.50	1.00	
N-Nitrosodiphenylamine	ND	0.50	1.00	
Naphthalene	ND	0.50	1.00	
4-Nitroaniline	ND	0.50	1.00	
3-Nitroaniline	ND	0.50	1.00	
2-Nitroaniline	ND	0.50	1.00	
Nitrobenzene	ND	2.5	1.00	
4-Nitrophenol	ND	0.50	1.00	
2-Nitrophenol	ND	0.50	1.00	
Pentachlorophenol	ND	2.5	1.00	
Phenanthrene	ND	0.50	1.00	
Phenol	ND	0.50	1.00	
Pyrene	ND	0.50	1.00	
Pyridine	ND	0.50	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
2,4,6-Trichlorophenol	ND	0.50	1.00	
2,4,5-Trichlorophenol	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorobiphenyl	76	27-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 3545
	Method:	EPA 8270C
	Units:	mg/kg
Project: DGS- Temple Street / 1386.001		Page 15 of 15

Surrogate	Rec. (%)	Control Limits	Qualifiers
2-Fluorophenol	80	25-120	
Nitrobenzene-d5	75	33-123	
p-Terphenyl-d14	79	27-159	
Phenol-d6	81	26-122	
2,4,6-Tribromophenol	75	18-138	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 1 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;2'	**15-06-2224-1-E**	**06/29/15 10:20**	**Solid**	**GC/MS BB**	**06/29/15**	**06/30/15 19:38**	**150630L009**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 2 of 24

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

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 3 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	97	71-155	
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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 4 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-1;5'	**15-06-2224-2-E**	**06/29/15 10:35**	**Solid**	**GC/MS BB**	**06/29/15**	**06/30/15 20:07**	**150630L009**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 5 of 24

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

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 6 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	98	71-155	
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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 7 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;2'	**15-06-2224-3-B**	**06/29/15 10:42**	**Solid**	**GC/MS BB**	**06/29/15**	**06/30/15 17:43**	**150630L009**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 8 of 24

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	99	80-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 9 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	101	79-133	
1,2-Dichloroethane-d4	97	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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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 10 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-2;5'	**15-06-2224-4-E**	**06/29/15 10:50**	**Solid**	**GC/MS BB**	**06/29/15**	**07/01/15 13:58**	**150701L007**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	51	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	5.1	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	5.1	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	5.1	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 11 of 24

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	510	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

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 12 of 24

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 13 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;2'	**15-06-2224-5-B**	**06/29/15 13:35**	**Solid**	**GC/MS BB**	**06/29/15**	**06/30/15 18:41**	**150630L009**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 14 of 24

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	97	80-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 15 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	79-133	
1,2-Dichloroethane-d4	97	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 16 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
B-3;5'	**15-06-2224-6-B**	**06/29/15 13:50**	**Solid**	**GC/MS BB**	**06/29/15**	**06/30/15 19:09**	**150630L009**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	42	1.00	
Benzene	ND	0.84	1.00	
Bromobenzene	ND	0.84	1.00	
Bromochloromethane	ND	1.7	1.00	
Bromodichloromethane	ND	0.84	1.00	
Bromoform	ND	4.2	1.00	
Bromomethane	ND	17	1.00	
2-Butanone	ND	17	1.00	
n-Butylbenzene	ND	0.84	1.00	
sec-Butylbenzene	ND	0.84	1.00	
tert-Butylbenzene	ND	0.84	1.00	
Carbon Disulfide	ND	8.4	1.00	
Carbon Tetrachloride	ND	0.84	1.00	
Chlorobenzene	ND	0.84	1.00	
Chloroethane	ND	1.7	1.00	
Chloroform	ND	0.84	1.00	
Chloromethane	ND	17	1.00	
2-Chlorotoluene	ND	0.84	1.00	
4-Chlorotoluene	ND	0.84	1.00	
Dibromochloromethane	ND	1.7	1.00	
1,2-Dibromo-3-Chloropropane	ND	4.2	1.00	
1,2-Dibromoethane	ND	0.84	1.00	
Dibromomethane	ND	0.84	1.00	
1,2-Dichlorobenzene	ND	0.84	1.00	
1,3-Dichlorobenzene	ND	0.84	1.00	
1,4-Dichlorobenzene	ND	0.84	1.00	
Dichlorodifluoromethane	ND	1.7	1.00	
1,1-Dichloroethane	ND	0.84	1.00	
1,2-Dichloroethane	ND	0.84	1.00	
1,1-Dichloroethene	ND	0.84	1.00	
c-1,2-Dichloroethene	ND	0.84	1.00	
t-1,2-Dichloroethene	ND	0.84	1.00	
1,2-Dichloropropane	ND	0.84	1.00	
1,3-Dichloropropane	ND	0.84	1.00	
2,2-Dichloropropane	ND	4.2	1.00	

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

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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 17 of 24

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	1.7	1.00	
c-1,3-Dichloropropene	ND	0.84	1.00	
t-1,3-Dichloropropene	ND	1.7	1.00	
Ethylbenzene	ND	0.84	1.00	
2-Hexanone	ND	17	1.00	
Isopropylbenzene	ND	0.84	1.00	
p-Isopropyltoluene	ND	0.84	1.00	
Methylene Chloride	ND	8.4	1.00	
4-Methyl-2-Pentanone	ND	17	1.00	
Naphthalene	ND	8.4	1.00	
n-Propylbenzene	ND	1.7	1.00	
Styrene	ND	0.84	1.00	
1,1,1,2-Tetrachloroethane	ND	0.84	1.00	
1,1,2,2-Tetrachloroethane	ND	1.7	1.00	
Tetrachloroethene	ND	0.84	1.00	
Toluene	ND	0.84	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	0.84	1.00	
1,1,2-Trichloroethane	ND	0.84	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	8.4	1.00	
Trichloroethene	ND	1.7	1.00	
Trichlorofluoromethane	ND	8.4	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	8.4	1.00	
Vinyl Chloride	ND	0.84	1.00	
p/m-Xylene	ND	1.7	1.00	
o-Xylene	ND	0.84	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.7	1.00	
Tert-Butyl Alcohol (TBA)	ND	17	1.00	
Diisopropyl Ether (DIPE)	ND	0.84	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.84	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.84	1.00	
Ethanol	ND	420	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

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 18 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	100	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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Analytical Report

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 19 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-26410**	**N/A**	**Solid**	**GC/MS BB**	**06/30/15**	**06/30/15 13:54**	**150630L009**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 20 of 24

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	102	80-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 21 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	79-133	
1,2-Dichloroethane-d4	94	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 22 of 24

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**095-01-025-26411**	**N/A**	**Solid**	**GC/MS BB**	**07/01/15**	**07/01/15 12:56**	**150701L007**

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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
		Units:	ug/kg
Project: DGS- Temple Street / 1386.001			Page 23 of 24

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	101	80-120	

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

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Analytical Report

Avocet Environmental, Inc.	Date Received:	06/29/15
1 Technology Drive, Suite C515	Work Order:	15-06-2224
Irvine, CA 92618-5302	Preparation:	EPA 5035
	Method:	EPA 8260B
	Units:	ug/kg
Project: DGS- Temple Street / 1386.001		Page 24 of 24

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	98	79-133	
1,2-Dichloroethane-d4	94	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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EPA 8260B Tentatively Identified Compound List

Work Order	Sample #	Client ID	Compound	CAS No.	RT	On Column Conc. ug/L	Estimated Conc. ug/kg
15-06-2224	5	B-3;2'	Chlorodifluoromethane	N/A	N/A	Not Found	Not Found
15-06-2224	6	B-3;5'	Chlorodifluoromethane	N/A	N/A	Not Found	Not Found

RT: Retention Time

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL: (714) 895-5494 • FAX: (714) 894-7501

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3060A
		Method:	EPA 7199
Project: DGS- Temple Street / 1386.001			Page 1 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1988-2	**Sample**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 20:16**	**150629S01P**
15-06-1988-2	**Matrix Spike**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 20:50**	**150629S01P**
15-06-1988-2	**Matrix Spike Duplicate**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 20:58**	**150629S01P**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	200000	158000	79	169400	85	75-125	7	0-25	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: DGS- Temple Street / 1386.001			Page 2 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-2;5'	**Sample**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 22:52**	**150629S12**
B-2;5'	**Matrix Spike**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 19:57**	**150629S12**
B-2;5'	**Matrix Spike Duplicate**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 20:15**	**150629S12**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	5.426	400.0	333.3	82	355.2	87	64-130	6	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: DGS- Temple Street / 1386.001			Page 3 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-2225-1	**Sample**	**Solid**	**ICP 7300**	**06/29/15**	**06/30/15 15:07**	**150629S02**
15-06-2225-1	**Matrix Spike**	**Solid**	**ICP 7300**	**06/29/15**	**06/30/15 15:08**	**150629S02**
15-06-2225-1	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**06/29/15**	**06/30/15 15:09**	**150629S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	3.753	15	3.512	14	50-115	7	0-20	3
Arsenic	3.451	25.00	28.11	99	28.97	102	75-125	3	0-20	
Barium	152.2	25.00	156.6	4X	247.7	4X	75-125	4X	0-20	Q
Beryllium	0.4617	25.00	25.50	100	26.38	104	75-125	3	0-20	
Cadmium	0.6200	25.00	24.72	96	25.68	100	75-125	4	0-20	
Chromium	16.28	25.00	43.22	108	42.44	105	75-125	2	0-20	
Cobalt	9.757	25.00	34.62	99	35.71	104	75-125	3	0-20	
Copper	14.09	25.00	35.62	86	38.55	98	75-125	8	0-20	
Lead	8.137	25.00	30.25	88	37.94	119	75-125	23	0-20	4
Molybdenum	ND	25.00	22.37	89	23.09	92	75-125	3	0-20	
Nickel	14.25	25.00	38.61	97	39.33	100	75-125	2	0-20	
Selenium	ND	25.00	17.21	69	18.61	74	75-125	8	0-20	3
Silver	ND	12.50	12.69	102	12.87	103	75-125	1	0-20	
Thallium	ND	25.00	14.83	59	15.52	62	75-125	5	0-20	3
Vanadium	33.35	25.00	63.89	122	61.56	113	75-125	4	0-20	
Zinc	104.1	25.00	107.1	4X	128.0	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: DGS- Temple Street / 1386.001			Page 4 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-2082-1	**Sample**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 17:40**	**150630S05**
15-06-2082-1	**Matrix Spike**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 17:42**	**150630S05**
15-06-2082-1	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 17:45**	**150630S05**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.7717	92	0.7728	93	71-137	0	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: DGS- Temple Street / 1386.001			Page 5 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-2226-1	**Sample**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 17:23**	**150629S07**
15-06-2226-1	**Matrix Spike**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 16:54**	**150629S07**
15-06-2226-1	**Matrix Spike Duplicate**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 17:08**	**150629S07**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aldrin	ND	25.00	19.90	80	19.45	78	50-135	2	0-25	
Alpha-BHC	ND	25.00	19.65	79	20.04	80	50-135	2	0-25	
Beta-BHC	ND	25.00	17.26	69	20.52	82	50-135	17	0-25	
4,4'-DDD	ND	25.00	23.72	95	21.98	88	50-135	8	0-25	
4,4'-DDE	ND	25.00	25.58	102	24.77	99	50-135	3	0-25	
4,4'-DDT	ND	25.00	21.82	87	21.32	85	50-135	2	0-25	
Delta-BHC	ND	25.00	22.26	89	21.59	86	50-135	3	0-25	
Dieldrin	ND	25.00	21.84	87	21.96	88	50-135	1	0-25	
Endosulfan I	ND	25.00	19.39	78	18.89	76	50-135	3	0-25	
Endosulfan II	ND	25.00	21.22	85	20.33	81	50-135	4	0-25	
Endosulfan Sulfate	ND	25.00	21.75	87	21.36	85	50-135	2	0-25	
Endrin	ND	25.00	23.31	93	22.78	91	50-135	2	0-25	
Endrin Aldehyde	ND	25.00	18.21	73	16.73	67	50-135	8	0-25	
Gamma-BHC	ND	25.00	20.24	81	20.67	83	50-135	2	0-25	
Heptachlor	ND	25.00	21.97	88	21.79	87	50-135	1	0-25	
Heptachlor Epoxide	ND	25.00	21.32	85	20.77	83	50-135	3	0-25	
Methoxychlor	ND	25.00	21.99	88	21.81	87	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8082
Project: DGS- Temple Street / 1386.001			Page 6 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-1371-1	**Sample**	**Solid**	**GC 31**	**06/29/15**	**06/30/15 00:11**	**150629S06**
15-06-1371-1	**Matrix Spike**	**Solid**	**GC 31**	**06/29/15**	**06/29/15 23:33**	**150629S06**
15-06-1371-1	**Matrix Spike Duplicate**	**Solid**	**GC 31**	**06/29/15**	**06/29/15 23:52**	**150629S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	384.4	384	359.0	359	50-135	7	0-20	3
Aroclor-1260	ND	100.0	154.0	154	161.5	161	50-135	5	0-20	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: DGS- Temple Street / 1386.001			Page 7 of 7

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B-2;2'	**Sample**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 16:39**	**150630S02**
B-2;2'	**Matrix Spike**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 16:03**	**150630S02**
B-2;2'	**Matrix Spike Duplicate**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 16:21**	**150630S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	8.189	82	8.351	84	34-148	2	0-20	
Acenaphthylene	ND	10.00	8.041	80	8.167	82	53-120	2	0-20	
Butyl Benzyl Phthalate	ND	10.00	8.414	84	8.726	87	15-189	4	0-20	
4-Chloro-3-Methylphenol	ND	10.00	8.062	81	8.262	83	32-120	2	0-20	
2-Chlorophenol	ND	10.00	8.257	83	8.481	85	53-120	3	0-20	
1,4-Dichlorobenzene	ND	10.00	7.029	70	7.055	71	43-120	0	0-26	
Dimethyl Phthalate	ND	10.00	7.927	79	7.932	79	44-122	0	0-20	
2,4-Dinitrotoluene	ND	10.00	8.710	87	8.815	88	28-120	1	0-20	
Fluorene	ND	10.00	8.384	84	8.445	84	12-186	1	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	7.510	75	7.822	78	38-140	4	0-20	
Naphthalene	ND	10.00	7.730	77	7.843	78	20-140	1	0-20	
4-Nitrophenol	ND	10.00	7.418	74	7.727	77	14-128	4	0-59	
Pentachlorophenol	ND	10.00	4.802	48	5.424	54	10-124	12	0-20	
Phenol	ND	10.00	8.142	81	8.414	84	22-124	3	0-20	
Pyrene	ND	10.00	7.785	78	8.003	80	31-169	3	0-20	
1,2,4-Trichlorobenzene	ND	10.00	7.643	76	7.797	78	56-120	2	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3060A
		Method:	EPA 7199
Project: DGS- Temple Street / 1386.001			Page 1 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-05-125-2797	**LCS**	**Solid**	**IC 11**	**06/29/15**	**06/29/15 18:26**	**150629L01P**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Chromium, Hexavalent	20000	18480	92	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: DGS- Temple Street / 1386.001			Page 2 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-490-1650	**LCS**	**Solid**	**GC 47**	**06/29/15**	**06/29/15 19:40**	**150629B12**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Diesel	400.0	390.3	98	75-123	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: DGS- Temple Street / 1386.001			Page 3 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-21335	**LCS**	**Solid**	**ICP 7300**	**06/29/15**	**06/30/15 15:04**	**150629L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	23.10	92	80-120	73-127	
Arsenic	25.00	22.32	89	80-120	73-127	
Barium	25.00	24.37	97	80-120	73-127	
Beryllium	25.00	22.88	92	80-120	73-127	
Cadmium	25.00	23.92	96	80-120	73-127	
Chromium	25.00	25.03	100	80-120	73-127	
Cobalt	25.00	24.83	99	80-120	73-127	
Copper	25.00	24.64	99	80-120	73-127	
Lead	25.00	24.08	96	80-120	73-127	
Molybdenum	25.00	23.37	93	80-120	73-127	
Nickel	25.00	24.82	99	80-120	73-127	
Selenium	25.00	22.13	89	80-120	73-127	
Silver	12.50	12.09	97	80-120	73-127	
Thallium	25.00	22.86	91	80-120	73-127	
Vanadium	25.00	24.13	97	80-120	73-127	
Zinc	25.00	22.57	90	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: DGS- Temple Street / 1386.001			Page 4 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-1410	**LCS**	**Solid**	**Mercury 05**	**06/30/15**	**06/30/15 17:38**	**150630L05**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.7919	95	85-121	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8081A
Project: DGS- Temple Street / 1386.001			Page 5 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-537-2152	**LCS**	**Solid**	**GC 44**	**06/29/15**	**06/30/15 15:23**	**150629L07**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Aldrin	25.00	20.85	83	50-135	36-149	
Alpha-BHC	25.00	21.32	85	50-135	36-149	
Beta-BHC	25.00	20.59	82	50-135	36-149	
4,4'-DDD	25.00	24.29	97	50-135	36-149	
4,4'-DDE	25.00	25.25	101	50-135	36-149	
4,4'-DDT	25.00	23.41	94	50-135	36-149	
Delta-BHC	25.00	22.08	88	50-135	36-149	
Dieldrin	25.00	23.12	92	50-135	36-149	
Endosulfan I	25.00	20.44	82	50-135	36-149	
Endosulfan II	25.00	22.76	91	50-135	36-149	
Endosulfan Sulfate	25.00	23.00	92	50-135	36-149	
Endrin	25.00	24.30	97	50-135	36-149	
Endrin Aldehyde	25.00	20.47	82	50-135	36-149	
Gamma-BHC	25.00	21.83	87	50-135	36-149	
Heptachlor	25.00	22.80	91	50-135	36-149	
Heptachlor Epoxide	25.00	21.38	86	50-135	36-149	
Methoxychlor	25.00	23.37	93	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

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8082
Project: DGS- Temple Street / 1386.001			Page 6 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-3305	**LCS**	**Solid**	**GC 31**	**06/29/15**	**06/29/15 22:17**	**150629L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Aroclor-1016	100.0	76.88	77	50-135	
Aroclor-1260	100.0	87.66	88	50-135	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 3545
		Method:	EPA 8270C
Project: DGS- Temple Street / 1386.001			Page 7 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-549-3330	**LCS**	**Solid**	**GC/MS CCC**	**06/30/15**	**07/01/15 15:43**	**150630L02**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Acenaphthene	10.00	8.453	85	51-123	39-135	
Acenaphthylene	10.00	8.365	84	52-120	41-131	
Butyl Benzyl Phthalate	10.00	8.919	89	43-139	27-155	
4-Chloro-3-Methylphenol	10.00	8.309	83	55-121	44-132	
2-Chlorophenol	10.00	8.633	86	58-124	47-135	
1,4-Dichlorobenzene	10.00	7.568	76	42-132	27-147	
Dimethyl Phthalate	10.00	8.259	83	51-123	39-135	
2,4-Dinitrotoluene	10.00	8.964	90	51-129	38-142	
Fluorene	10.00	8.603	86	54-126	42-138	
N-Nitroso-di-n-propylamine	10.00	7.936	79	40-136	24-152	
Naphthalene	10.00	8.198	82	32-146	13-165	
4-Nitrophenol	10.00	6.710	67	24-126	7-143	
Pentachlorophenol	10.00	6.205	62	23-131	5-149	
Phenol	10.00	8.444	84	40-130	25-145	
Pyrene	10.00	8.280	83	47-143	31-159	
1,2,4-Trichlorobenzene	10.00	8.147	81	45-129	31-143	

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/LCSD

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: DGS- Temple Street / 1386.001			Page 8 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-26410	**LCS**	**Solid**	**GC/MS BB**	**06/30/15**	**06/30/15 12:21**	**150630L009**
095-01-025-26410	**LCSD**	**Solid**	**GC/MS BB**	**06/30/15**	**06/30/15 12:49**	**150630L009**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	44.75	89	43.18	86	80-120	73-127	4	0-20	
Carbon Tetrachloride	50.00	39.13	78	37.82	76	65-137	53-149	3	0-20	
Chlorobenzene	50.00	46.73	93	44.08	88	80-120	73-127	6	0-20	
1,2-Dibromoethane	50.00	47.21	94	45.74	91	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	50.00	47.72	95	44.89	90	80-120	73-127	6	0-20	
1,2-Dichloroethane	50.00	41.34	83	40.33	81	80-120	73-127	2	0-20	
1,1-Dichloroethene	50.00	35.06	70	33.27	67	68-128	58-138	5	0-20	ME
Ethylbenzene	50.00	46.99	94	43.74	87	80-120	73-127	7	0-20	
Toluene	50.00	45.40	91	43.07	86	80-120	73-127	5	0-20	
Trichloroethene	50.00	44.97	90	42.75	85	80-120	73-127	5	0-20	
Vinyl Chloride	50.00	50.61	101	48.92	98	67-127	57-137	3	0-20	
p/m-Xylene	100.0	96.71	97	90.84	91	75-125	67-133	6	0-25	
o-Xylene	50.00	47.26	95	43.89	88	75-125	67-133	7	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	43.49	87	42.37	85	70-124	61-133	3	0-20	
Tert-Butyl Alcohol (TBA)	250.0	222.7	89	218.2	87	73-121	65-129	2	0-20	
Diisopropyl Ether (DIPE)	50.00	37.42	75	35.90	72	69-129	59-139	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	36.10	72	34.77	70	70-124	61-133	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	43.63	87	42.84	86	74-122	66-130	2	0-20	
Ethanol	500.0	523.8	105	482.1	96	51-135	37-149	8	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

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Avocet Environmental, Inc.		Date Received:	06/29/15
1 Technology Drive, Suite C515		Work Order:	15-06-2224
Irvine, CA 92618-5302		Preparation:	EPA 5035
		Method:	EPA 8260B
Project: DGS- Temple Street / 1386.001			Page 9 of 9

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-025-26411	**LCS**	**Solid**	**GC/MS BB**	**07/01/15**	**07/01/15 11:13**	**150701L007**
095-01-025-26411	**LCSD**	**Solid**	**GC/MS BB**	**07/01/15**	**07/01/15 11:42**	**150701L007**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	50.03	100	49.82	100	80-120	73-127	0	0-20	
Carbon Tetrachloride	50.00	43.65	87	42.03	84	65-137	53-149	4	0-20	
Chlorobenzene	50.00	48.47	97	47.96	96	80-120	73-127	1	0-20	
1,2-Dibromoethane	50.00	50.72	101	49.91	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	46.96	94	47.13	94	80-120	73-127	0	0-20	
1,2-Dichloroethane	50.00	45.02	90	44.89	90	80-120	73-127	0	0-20	
1,1-Dichloroethene	50.00	42.45	85	41.11	82	68-128	58-138	3	0-20	
Ethylbenzene	50.00	49.63	99	48.58	97	80-120	73-127	2	0-20	
Toluene	50.00	49.21	98	48.96	98	80-120	73-127	1	0-20	
Trichloroethene	50.00	49.22	98	49.01	98	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	49.98	100	51.36	103	67-127	57-137	3	0-20	
p/m-Xylene	100.0	102.4	102	101.2	101	75-125	67-133	1	0-25	
o-Xylene	50.00	49.12	98	48.41	97	75-125	67-133	1	0-25	
Methyl-t-Butyl Ether (MTBE)	50.00	46.75	93	46.33	93	70-124	61-133	1	0-20	
Tert-Butyl Alcohol (TBA)	250.0	221.6	89	221.9	89	73-121	65-129	0	0-20	
Diisopropyl Ether (DIPE)	50.00	39.34	79	39.14	78	69-129	59-139	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	36.87	74	36.51	73	70-124	61-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	44.84	90	44.82	90	74-122	66-130	0	0-20	
Ethanol	500.0	516.1	103	522.4	104	51-135	37-149	1	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: 15-06-2224

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6010B	EPA 3050B	935	ICP 7300	1
EPA 7199	EPA 3060A	921	IC 11	1
EPA 7471A	EPA 7471A Total	915	Mercury 05	1
EPA 8015B (M)	EPA 3550B	421	GC 47	1
EPA 8015B (M)	EPA 3550B	974	GC 47	1
EPA 8081A	EPA 3545	960	GC 44	1
EPA 8082	EPA 3545	944	GC 31	1
EPA 8260B	EPA 5035	486	GC/MS BB	2
EPA 8270C	EPA 3545	923	GC/MS CCC	1

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Glossary of Terms and Qualifiers

Work Order: 15-06-2224 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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Virendra Patel

From: Darren Brandner <dbrandner@avocetenv.com>
Sent: Tuesday, July 07, 2015 9:02 AM
To: Virendra Patel
Cc: Erick Ovalle
Subject: Freon 22 in Temple Street samples

Hi Virendra,

As we discussed, Avocet would like chlorodifluoromethane (Freon 22) reported with the samples collected for the Temple Street project on June 29, 2015. Please let me know if there are any issues with obtaining the results for this compound on your initial runs.

If there are issues, we will likely want, at a minimum, samples B-3;2' and B-3;5' rerun with Freon 22 included (as a TIC or otherwise).

Thanks,

Darren Brandner, P.E.

AVOCET ENVIRONMENTAL, INC.

1 Technology Drive, Suite C515
Irvine, California 92618-5302
Office (949) 296 0977 Ext. 114
Fax (949) 296 0978
Mobile (949) 870 2655

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Notify us here to report this email as spam.

AVOCET ENVIRONMENTAL, INC.
1 Technology Drive, Suite C515
Irvine, California 92618-5302
TEL (949) 296-0977
FAX (949) 296-0978

CHAIN OF CUSTODY RECORD

15-06-2224

Project Information:	Event Name:
Site Name	DGS - Temple Street
Site Location	Los Angeles, CA
Project No.	1386.001
Project Manager	Deke Siren
Sampled By	DAB
Turnaround Time	standard

Analyses

Sample Identification	Sample Date	Sample Time	Matrix	No. of Cntnrs.	Lab I.D. Number	VOCs inc. fuel oxys (EPA 8260B)	SVOCs (EPA 8270C)	TPH/Carbon Chain Speciation (EPA 8015B-CC)	PCBs (EPA 8082)	Organochlorine Pesticides (EPA 8081A)	Hexavalent Chromium (EPA 7199)	Title 22 Metals (EPA 6010B/7471A)
B-1; 2'	6/29/15	1020	soil	5	1	X	X	X	X	X	X	X
B-1; 5'		1035			2	X	X	X	X	X	X	X
B-2; 2'		1042			3	X	X	X	X	X	X	X
B-2; 5'		1050			4	X	X	X	X	X	X	X
B-3; 2'		1335			5	X		X				X
B-3; 5'		1350			6	X		X				X

Relinquished by		Company	Received by		Company
Printed Name: Darren Brandner	Date: 6/29/15	Avocet Environmental, Inc.	Printed Name: PREGY SORIANO	Date: 6/29/15	EZY
Signature:	Time: 1510		Signature:	Time: 1510	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:	
Signature:	Time:		Signature:	Time:	

Sample Receipt		Billing Information	Special Instructions
Total Containers	TAT	Bill To: AVOCET ENVIRONMENTAL, INC. 1 Technology Dive, Suite C515 Irvine, CA 92618-5302	Please bill to Avocet. If any questions, please call Darren Brandner @ (949) 296 0977 Ext.114
Temperature °C °F	Lab No.		
COC Seal (Y/N/NA)	Intact (Y/N)		

P:\1386 RESD_1449 West Temple Street-LA\field forms\Chain of Custody soil.xlsx

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WORK ORDER NUMBER: 15-06- 2224

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: AVOCET

DATE: 06 / 29 / 2015

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

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 3.6 °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: 836

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 836
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1017

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			
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** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** ☐ 500PB ☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (S) ☐ EnCores® (_____) ☑ TerraCores® (3) ☑ 2oz P

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, **znna** = $Zn(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1017

Reviewed by: 836

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Appendix C

Investigation-Derived Waste Manifest

AVOCET
ENVIRONMENTAL, INC.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

114185

3. Generator's Name and Mailing Address
CALIFORNIA DEPT OF GENERAL SERVICES
707 3RD STREET, 5TH FLOOR
W SACRAMENTO CA 95605

1449 WEST TEMPLE ST
LOS ANGELES CA 90026

4. Generator's Phone (916) 375 . 4700

5. Transporter 1 Company Name
UNITED PUMPING SERVICE, INC.

6. US EPA ID Number
CAD072953771

A. Transporter's Phone
626 961-9326

7. Transporter 2 Company Name
Worldwide Recovery System

8. US EPA ID Number
CAR000175922

B. Transporter's Phone
877-737-5277

9. Designated Facility Name and Site Address
YUMA ENVIRONMENTAL SERVICES
2730 E. 13TH ST.
YUMA AZ 85365

10. US EPA ID Number
AZR000515924

C. Facility's Phone
928 642-8938

11. Waste Shipping Name and Description

	12. Containers No.	Type	13 Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS WASTE SOLID (SOIL)	1	DM	50	P
b.				
c.				
d.				

D. Additional Description for Materials Listed Above
1) SOIL # 150922

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ALWAYS WEAR APPROPRIATE PROTECTIVE EQUIPMENT
24 HOUR EMERGENCY RESPONSE CONTACT 626.961.9326

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I Certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Type Name: AKASH JOHNSON AS AGENT OF DGS
Signature:
Month Day Year: 07 21 15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Type Name: Michael Ceburor
Signature: MJ
Month Day Year: 07 21 15

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Type Name: SCOTT SHORT
Signature:
Month Day Year: 7 22 15

FACILITY

19. Discrepeancy Indication Space

20. Facility Owner or Operator: Certification of Receipt or waste materials covered by this manifest as noted in Item 19.

Printed/Type Name: CARLOS POMERO
Signature:
Month Day Year: 07 24 15

ORIGINAL RETURN TO GENERATOR

FIELD WORK ORDER WO110789-1

(2)

United Pumping Service, Inc.

14000 E. Valley Blvd. • City of Industry, CA 91746-2801
(626) 961-9326 • Fax (626) 336-7734

Onsite Date: 07/21/15
Onsite Day: Tuesday
Onsite Time: 1000
Account No.: ENWA40000
Quote No.: SQ117453

Payment Terms Code NET30
Salesperson Code: PHE

Date: 07/20/15

Customer PO No.:
Service Contract.:

I UNDERSTAND & READ THE CONTENTS OF THE WORK ORDE
Sup. Sig. and Print Name

Job Site Location:

ENVIRONMENTAL WASTE DISPOSAL
1449 WEST TEMPLE ST
LOS ANGELES, CA 90026

JUL 27 '15 PM 12:51

Bill To Customer:
ENVIRONMENTAL WASTE DISPOS
19782 MACARTHUR BL. #250
IRVINE, CA 92612

Salesperson Name PAUL HERRERA
Cell Phone

Scope of Work
PICK UP DRUM OF NON HAZ WASTE
BRING BACK TO YARD FOR LATER PICK UP

Goods No.	Description	No. of Units	Start Time	Arrive Time	Time Out	Stop Time	S.T. Time	O.T. Time	Total Hours	Price
G155	STAKEBED TRK W/LIFTGATE Michael 475	1								
G302	TECHNICIAN Michael Caburon		9:00	1000	1015	1100				
G700	DISPOSAL FEE	1								
G701	DISPOSAL 20% SERVICE	1								

7/22 (YUMA) WORLDWIDE 1400 1415 1515 1635
DISPOSAL M.C. # 6175

Manifest No.	Disposal Site	Qty.	Misc. Equipment
114185	Yuma	1x30P	

Printed Name: AVASH JOHNSON Signature: Date: 7-21-2015

Terms: Net Cash: Due and payable in full 30 days after the date of invoice, delinquent after 35 days, and subject to C.O.D. after 45 days, late charge 1 - 1/2% per month shall be applied to all delinquent accounts. Failure to pay shall allow United Pumping Service, Inc. to charge all the cost of collection; including reasonable attorney fees and commissions whether incurred prejudgment or post judgement.

Appendix D

J-E Model Output

AVOCET
ENVIRONMENTAL, INC.

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	67641	5.30E+01			Acetone

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
5.78E-04	3.06E-02

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	71432	3.60E+00			Benzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.76E-04	1.71E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	75150	8.00E+01			Carbon disulfide

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
5.24E-04	4.19E-02

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	75456	1.40E+01			Chlorodifluoromethane

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
5.16E-04	7.23E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	67663	1.40E+02			Chloroform

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
5.24E-04	7.34E-02

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	100414	1.40E+02			Ethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.31E-04	6.04E-02

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	108383	1.50E+01			m-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.13E-04	6.19E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	95476	4.70E+00			o-Xylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.73E-04	2.22E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	127184	1.90E+01			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP (g/cm-s^2)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.20E-04	7.98E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	108883	2.10E+01			Toluene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
4.73E-04	9.93E-03

END

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

	ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
11	95636	9.80E+00			1,2,4-Trimethylbenzene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152	18.6	25	127	0	S		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
S	1.66	0.375	0.054	SI	1.35	0.489	0.167				

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	304	0.1	1	

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)
3.75E-04	3.67E-03

END