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December 16, 2009

Municipal Light & Power
1200 E. First Avenue
Anchorage, AK 99501

Attn: Yelena Saville

Re: October 2009 Groundwater Sampling at the Operations and Dispatch Center, 1201 E. 1st Avenue, Anchorage, Alaska, File # 2100.38.513

This letter report presents the results of October 2009 groundwater monitoring activities at Municipal Light and Power's (ML&P) Operations and Dispatch Center site, located at 1201 E. First Avenue, Anchorage, Alaska. The activities described below were conducted in accordance with the September 30, 2009 work plan submitted by ML&P and approved by the Alaska Department of Environmental Conservation (ADEC).

The purpose of the sampling was to determine if any contaminants had migrated to the groundwater downgradient from a recently removed leaking underground storage tank (UST) next to the Operations and Dispatch Center Building (Figure 1). When the UST was removed in September 2009, stained soil was present near the water table and intermittent product was visible on the groundwater surface (HCG 2009b). The product recovered from the UST was identified as diesel fuel based on laboratory testing. Based on soil samples results, the primary contaminants of concern (COCs) identified at the site were diesel range organics (DRO) and polychlorinated biphenyls (PCBs). The PCBs were attributed to a release from a transformer that was previously located next to the Operations Building.

Groundwater Sampling

Groundwater samples were collected from three existing wells (B1, B2, and 2A1) located north and west of the UST location (Figure 1) on October 8, 2009. Prior to collection of each sample, the water level in the monitoring well was measured using an electronic water level indicator. Wells were purged of at least three well casing volumes of water prior to sampling. During the purging, the water quality parameters of temperature, pH, specific conductance, and dissolved oxygen were measured using a YSI 556 water meter. Turbidity was measured using a LaMotte 2020 turbidimeter. The water level data and water quality parameters are presented in Table 1. The purge water generated during sampling activities was segregated by well and

placed in plastic containers, tightly covered, and stored at ML&P. Upon receipt of analytical results, Emerald Alaska collected the purge water for treatment and disposal.

Laboratory Analyses

The groundwater samples were submitted to SGS of Anchorage, Alaska using chain-of-custody procedures. All of the samples were analyzed for DRO, residual range organics (RRO), and PCBs. Additionally, the sample from well B2 was analyzed for volatile organic compounds by EPA Method 8260B because it is part of a separate site that has ongoing monitoring (1121 E. 1st Avenue). Laboratory data was reviewed following the procedures outlined in the ADEC Environmental Laboratory Data and Quality Assurance Requirements (see Attachment 1). No data was rejected from the data set.

Analytical Results

The results of the laboratory analysis are presented in Table 2. No samples contained DRO, RRO, or PCBs above the 18 Alaska Administrative Code (AAC) 75.345, Table C groundwater cleanup levels. PCBs and DRO were non-detectable at all three locations. Low concentrations of RRO were detected in all three wells and chlorinated solvents were detected above Table C groundwater cleanup levels in well B2. The chlorinated solvents detected in well B2 are similar in concentration to previous samples collected from the well (HCG 2009a). This well is sampled on a regular basis as part of a Record of Decision for the site.

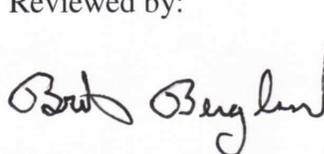
The trace levels of RRO are unlikely to be caused by a release of diesel fuel from the UST next to the Operations Building, and are more likely the result of residual contamination from other areas. Therefore, these results do not indicate that contamination from the Operations Building UST site has migrated to these wells.

Prepared by:



Marika Sears
Associate Engineer
Hoefler Consulting Group

Reviewed by:



Bret Berglund
Project Manager
Hoefler Consulting Group

Attachments: Tables 1 and 2, Figure 1, and Attachment 1

References

HCG. 2009a. Letter to Yelena Saville, dated August 25, 2009. Subject: *July 2009 Groundwater Monitoring at 1121 E. 1st Avenue, Anchorage, Alaska.*

HCG. 2009b. *UST Release Investigation Report, ML&P Operations and Dispatch Center, 1201 East First Avenue, Anchorage, Alaska.* Prepared for ML&P. November.

TABLE 1 - WATER SAMPLING LOG FOR OCTOBER 8, 2009 SAMPLING

Well Number	B1	B2	2A1
<u>Water Level & Well Purging Data</u>			
Date Water Level Measured	10/8/2009	10/8/2009	10/8/2009
Time Water Level Measured	10:19	11:42	13:55
Measuring Point (MP) Elevation, ft	NA	36.29	NA
Depth to Water Below MP, ft	5.28 ¹	4.01	2.51 ²
Water Level Elevation, ft	NA	32.28	NA
Depth of Well Below Top of Casing, ft	8.71 ¹	8.78	8.62 ²
Water Column in Well, ft	3.43	4.8	6.11
Gallons per Foot	0.16	0.16	0.65
Gallons in Well	0.55	0.76	3.97
Total Gallons Pumped/Bailed	3.5	2.5	12
<u>Sampling/Water Parameters</u>			
Date Sampled	10/8/2009	10/8/2009	10/8/2009
Time Sampled	11:00	12:15	15:20
Temperature, C	9.38	10.21	12.23
Specific Conductance, $\mu\text{S}/\text{cmSC}$	221	390	536
pH	6.16	5.89	5.92
Turbidity, NTU	7.18	2.62	0.92
Dissolved Oxygen, ppm	0.18	0.22	0.03
Diameter of Well Casing, inch	2	2	4
Notes			
¹ Well B1 has a stickup of 2.13 feet.			
² The top of casing for well 2A1 is located approximately 3.2 feet below the ground surface.			

Purging and Sampling Method: Peristaltic Pump
 Sampled By: Marika Sears (HCG)

**Table 2 - ML P Operations and Dispatch Center October 2009
Groundwater Results**

Compound milligrams per Liter (mg/L)	Screening Criteria	Sample Locations ²								Trip Blank		Maximum Concentration ³		Frequency of Detection ⁴	Frequency Above Screening Criteria ^{4,5}
	18 AAC 75 Table C Groundwater Cleanup Levels ¹	B1-100809 10/08/2009 1095500001		Primary B2-100809 10/08/2009 1095500002		Replicate B92-100809 10/08/2009 1095500004		2A1-100809 10/08/2009 1095500003		Trip Blank 10/08/2009 1095500005		Conc.	Flag		
		Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag	Conc.	Flag				
Fuels (AK102 and AK103)															
Diesel Range Organics	1.5	[0.278]	ND	[0.278]	ND	0.278	ND	[0.278]	ND	NA	NA	[0.278]	ND	0/3	0/3
Residual Range Organics	1.1	0.192	F	0.273	F	0.239	F	0.205	F	NA	NA	0.273	F	3/3	0/3
Polychlorinated Biphenyls (SW8082)															
Aroclor-1248	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1254	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1242	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1232	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1221	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1016	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Aroclor-1260	--	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Total PCBs	0.0005	[0.000032]	ND	[0.0000354]	ND	[0.0000339]	ND	[0.000033]	ND	NA	NA	[0.0000354]	ND	0/3	0/3
Volatile Organic Compounds (SW8260) - Only detected compounds are listed															
cis-1,2-Dichloroethene	0.07	--	--	0.012	=	0.0118	=	--	--	[0.00031]	ND	0.012	=	1/1	0/1
Tetrachloroethene	0.005	--	--	0.0281	=	0.0263	=	--	--	[0.00031]	ND	0.0281	=	1/1	1/1
Trichloroethene	0.005	--	--	0.0115	=	0.0116	=	--	--	[0.00031]	ND	0.0116	=	1/1	1/1

Notes:

- 1 - Screening Criteria: the cleanup level corresponds to ADEC 18 AAC 75 Table C Groundwater Cleanup Levels (October 9, 2008).
- 2 - The field sample identification number, date collected and laboratory sample identification number are provided.
- 3 - The maximum concentration of a detected analyte is shown. If an analyte was not detected, then the highest MDL is shown. Trip blanks are not included.
- 4 - A parent and replicate sample are counted as one sample. The higher of the two values are used for the purpose of counting detections and exceedances. Trip blanks are not included.
- 5 - Screening criteria values are from 18 AAC 75.345 Table C .
- 6 - Total values were the summation of detected compounds only. If compounds were not detected, then the highest MDL was listed.

Data Flags

ND - nondetect, method detection limit is presented in brackets to the left
 F - reported value was between the laboratory MDL and PQL
 = - A detected compound (concentration listed in column to the left).
 J - Quantitation is an estimate
 NA - Sample not analyzed for compound

Abbreviations

-- - not applicable or screening criteria does not exist for this compound
 AAC - Alaska Administrative Code
 ADEC - Alaska Department of Environmental Conservation
 MDL - Method Detection Limit
 mg/L - milligrams per liter
 PQL - Practical Quantitation Limit
 PCB - Polychlorinated biphenyl

bold and shaded - The value exceeds the screening criteria (ADEC 18 AAC 75, Table C Groundwater Cleanup Levels).

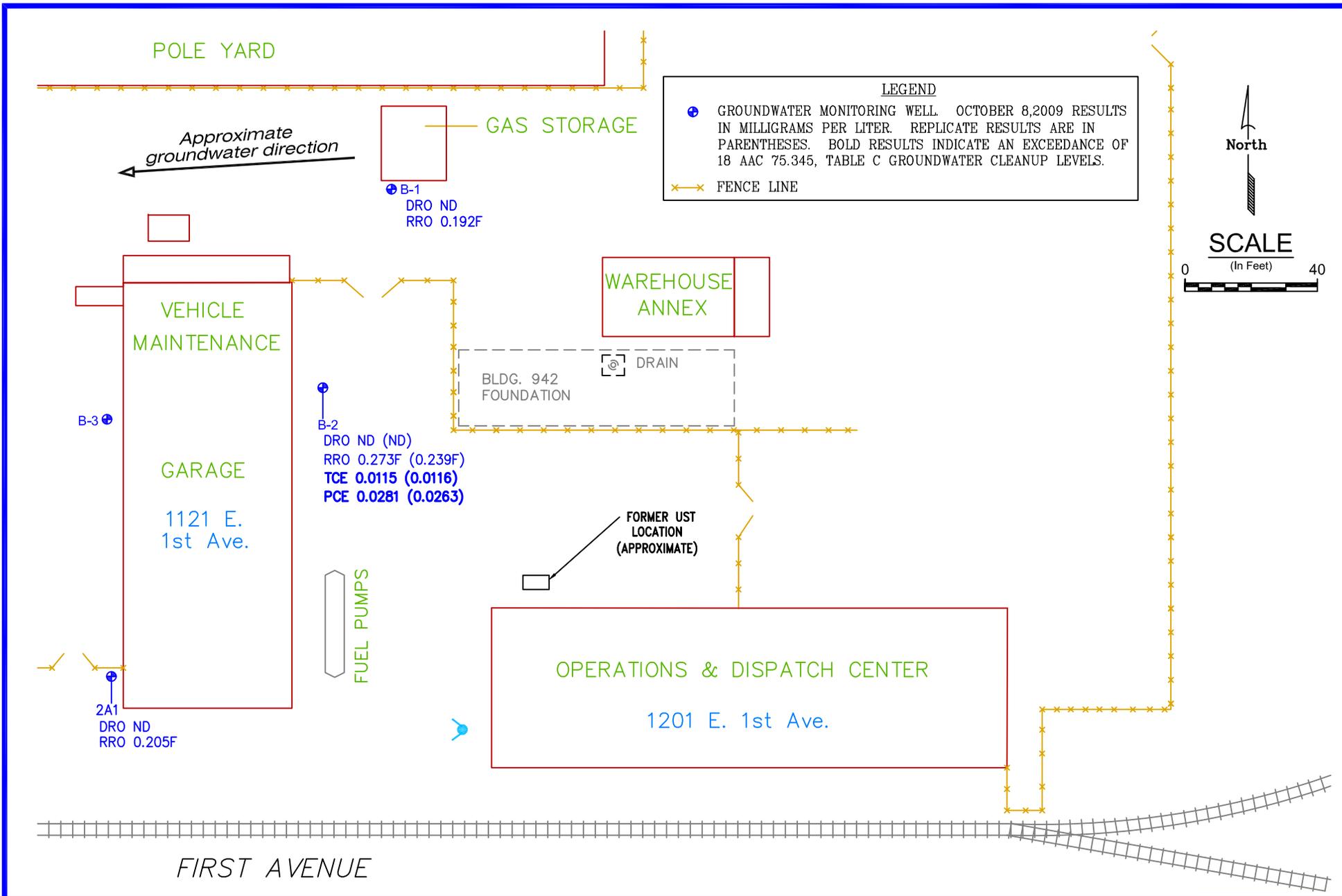


FIGURE 1 – SITE PLAN AND RESULTS FROM GROUNDWATER SAMPLING
MUNICIPAL LIGHT & POWER 1201 E. 1st Avenue



Attachment 1

Data Quality Assessment and Laboratory Data Package

1 LAB ANALYSIS, DATA VALIDATION, AND REPORTING

This Data Quality Assessment (DQA) covers sampling for ML&P operations and dispatch completed on October 8, 2009. Water samples were taken according to the specifications in Table 1 below. SGS in Anchorage, Alaska (an ADEC-approved laboratory) provided the analytical support for this project. Table 2 provides laboratory work order numbers and corresponding receipt temperatures.

The chain of custody form was completed as the samples were packaged into coolers for transport. A trip blank, temperature blanks, and gel ice were added as required. The samples were placed in coolers at the time of collection and were kept chilled until delivery to the laboratory. Documentation pertaining to chain-of-custody and sample condition was filed in field and laboratory records.

Table 1 Summary of Sample Containers and Preservatives

Method	Container Volume	Container Material	Preservative	Hold time (days)	Trip Blank ¹
Chlorinated VOCs (SW8260)	3 x 40 mL VOA vials	Amber Glass	HCl, 4(±2)°C	14	Required
DRO/RRO (AK102/103)	2 x 1 Liter	Amber Glass	HCl, 4(±2)°C	14	Not Required
PCBs (SW8082)	2 x 1 Liter	Amber Glass	4(±2)°C	None	Not Required

Notes: 1 – This type of sample requires a trip blank to be included in the cooler, with the trip blank noted on the chain of custody.

Table 2 Summary of Work Orders and Cooler Receipt Information

Work Order Number	Date of Receipt	Temperature Blank	Cooler Temperature
1095500	10/9/09	3.6°C	NA
		1.8°C	NA

NA – Not Applicable

The SGS final report was presented as a hard copy Level II data deliverable package and electronic deliverable compatible with Microsoft Access. The analytic data was reviewed for consistency with *ADEC Technical Memorandum 06-002, Environmental Laboratory Data and Quality Assurance* (ADEC 2009) requirements. An ADEC Laboratory Data Review Checklist was completed and was included in this report. Any anomalies to the requirements for precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS) are discussed below and the data were flagged where appropriate.

Application of Data Flags

General data quality flagging conventions in Table 3 were used to indicate quality control anomalies. Data was flagged, where appropriate. A data quality summary is provided below.

Table 3 Data Qualifiers

Qualifier	Description
F	The analyte was positively identified but the associated concentration was estimated above the method detection limit (MDL) and below the practical quantitation limit (PQL).
J	The analyte was positively identified, the quantitation was an estimate. Where applicable a "+" or "-" was appended to indicate positive or negative bias, respectively.
ND	The analyte was analyzed for, but not detected. The associated numerical value was at or below the MDL.

Preservation, Temperature and Hold Time

Temperature blank and cooler receipt temperatures are presented in Table 2. Cooler 2 was received at the laboratory with a temperature blank at 1.8°C, slightly below the ADEC required 4±2°C. No samples were documented as frozen; therefore, data was considered not impacted. Data was not flagged and all data was considered usable.

All other preservation and holding time criteria were met.

PRECISION

Precision was measured from the Field Replicate, and the Relative Percent Difference (RPD) between Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Matrix Spike (MS)/Matrix Spike Duplicate (MSD).

Field Replicates

One field replicate was collected per ten samples or less per method and matrix, as is required by ADEC. Sample B92-100809 was a field duplicate of B2-100809. Analyses performed were PCBs, DRO, RRO, and chlorinated VOCs. The RPDs for all replicate results were within criteria.

Laboratory Control Sample and Duplicate (LCS/LCSD) and Matrix Spike and Duplicate (MS/MSD) RPD

Analytical batch precision was established through the extraction and analysis of an LCS/LCSD for PCBs, DRO, RRO and chlorinated VOCs (trip blank only). An LCS and MS/MSD were evaluated for chlorinated VOCs, samples B2-100809 and B92-100809.

For VOCs, the MS/MSD RPD of 20% for Bromochloromethane was slightly outside the allowed limit of “less than 20%”. Both samples, B2-100809 and B92-100809, were nondetect for this analyte. Sample results in the affected samples were flagged J. All data was considered usable. Bromochloromethane is not an analyte of interest (i.e., chlorinated solvents) for this sampling event.

All LCS/LCSD RPDs were within control limits.

1.1 ACCURACY

Accuracy was measured from laboratory QC sample percent recoveries to include LCS/LCSD, MS/MSD, and surrogates. Accuracy was also evaluated by determining whether any deviations to method or laboratory requirements for CCV were noted in the case narrative.

Continuing Calibration Verification (CCV)

The CCV associated with analytical batches VMS10917 and VMS10922 recovered high for several analytes. All associated samples were nondetect for impacted analytes. Since a high bias was indicated, no data was flagged. All data was considered usable.

Surrogates

All surrogate recoveries were within established control limits.

Laboratory Control Sample and Duplicate (LCS/LCSD) and Matrix Spike and Duplicate (MS/MSD) Recovery

One LCS/LCSD was analyzed for each batch of 20 samples or less for PCBs, DRO, RRO, and chlorinated VOCs (trip blank only). An LCS and MS/MSD were evaluated for each batch of 20 samples or less for chlorinated VOCs (samples B2-100809 and B92-100809).

Several analytes recovered above established control limits in the VOC LCS/LCSD pair. Only the trip blank was associated with this LCS/LCSD. Since a high bias was indicated and all trip blank results were nondetect, no data was flagged. All data was considered usable.

All other LCS/LCSD recoveries were within acceptable limits. All MS/MSD recoveries were within acceptable limits. No data was flagged based on LCS/LCSD or MS/MSD recoveries.

Internal Standards

No internal standards were noted in the case narrative as outside allowable limits.

1.2 REPRESENTATIVENESS

The data deliverables were consistent with the site conditions. Samples were collected from planned locations.

1.3 COMPARABILITY

Comparability between laboratories was not applicable to this investigation. Standard ADEC and SW846 methods were used by SGS, an ADEC-certified laboratory.

1.5 COMPLETENESS

Completeness was measured as the number of usable results versus the total number of results. The data set was 100% complete with no omissions or rejections with respect to analysis. The information fulfilled the data quality objectives of this sampling event.

1.6 SENSITIVITY

Sensitivity was measured by evaluating whether the PQL was less than the regulatory clean up levels or project required goals. In cases where the PQL did not meet goals, the MDL was evaluated. Additionally, sensitivity was evaluated by determining whether method blank and trip blank results were less than the PQL.

Blanks (Method and Trip)

A trip blank was included in each cooler containing samples to be analyzed for volatiles. One method blank was analyzed for every analytical batch of twenty samples or less. There were no detections in the blanks above the MDL.

Reporting Limits

PQLs and MDLs were evaluated against 18 AAC 75 Table C Groundwater Cleanup Levels (January 2009). With the exceptions noted in Table 4, all MDLs were less than ADEC required action limits. There is no impact to the data quality. It is typical that MDLs for this analyte to be higher than Table C Groundwater Cleanup Levels due to the limitations of the methodology for volatile organics.

Table 4 MDLs above Cleanup Criteria

Compound: milligrams per Liter (mg/L)	18 AAC 75 Table C Groundwater Cleanup Level	B2-100809 B92-100809 Trip Blank
1,2-Dibromoethane	0.00005 mg/L	[0.000310] ND
1,2,3-Trichloropropane	0.00012 mg/L	[0.000310] ND

Laboratory Data Review Checklist

Completed by:

Title:

Date:

CS Report Name:

Report Date:

Consultant Firm:

Laboratory Name:

Laboratory Report Number:

ADEC File Number:

ADEC RecKey Number:

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No

Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No

Comments:

2. Chain of Custody (COC)

a. COC information completed, signed, and dated (including released/received by)?

Yes No

Comments:

b. Correct analyses requested?

Yes No

Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?

Yes No

Comments:

Temperature blank and cooler receipt temperatures are presented in Table 2. Cooler 2 was received at the laboratory with a temperature blank at 1.8oC, slightly below the ADEC required 4+2oC.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No

Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No

Comments:

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No

Comments:

not applicable

e. Data quality or usability affected? Explain.

Comments:

No samples were documented as frozen, therefore, data was considered not impacted. Data was not flagged, and all data was considered usable.

4. Case Narrative

a. Present and understandable?

Yes No

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No

Comments:

c. Were all corrective actions documented?

Yes No

Comments:

None were taken.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

no impact

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No

Comments:

b. All applicable holding times met?

Yes No

Comments:

c. All soils reported on a dry weight basis?

Yes No

Comments:

not applicable

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No

Comments:

PQLs and MDLs were evaluated against 18 AAC 75 Table C Groundwater Cleanup Levels (January 2009). With the exceptions noted in Table 4, all MDLs were less than action limits.

e. Data quality or usability affected? Explain.

Comments:

There is no impact to the data quality. It is typical that MDLs for this analyte to be higher than Table C Groundwater Cleanup Levels due to the limitations of the methodology for volatile organics.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No Comments:

ii. All method blank results less than PQL?

Yes No Comments:

All method blank results were less than the MDL.

iii. If above PQL, what samples are affected?

Comments:

not applicable

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No Comments:

not applicable

v. Data quality or usability affected? Explain.

Comments:

no impact

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No Comments:

One LCS/LCSD was analyzed for each batch of 20 samples or less for PCBs, DRO, RRO, and chlorinated VOCs (trip blank only). An LCS and MS/MSD were evaluated for each batch of 20 samples or less for chlorinated VOCs (samples B2-100809 and B92-100809).

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No Comments:

not applicable

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No Comments:

Several analytes recovered above established control limits in the VOC LCS/LCSD pair. Only the trip blank was associated with this LCS/LCSD. Since a high bias was indicated and all trip blank results were nondetect, no data was flagged. All data was considered usable.

All other LCS/LCSD recoveries were within acceptable limits. All MS/MSD recoveries were within acceptable limits. No data was flagged based on LCS/LCSD or MS/MSD recoveries.

The CCVs associated with analytical batches VMS10917 and VMS10922 recovered high for several analytes. All associated samples were nondetect for impacted analytes. Since a high bias was indicated, no data was flagged. All data was considered usable.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No Comments:

For VOCs, the MS/MSD RPD of 20% for Bromochloromethane was slightly outside the allowed limit of “less than 20%”.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

Samples B2-100809 and B92-100809 were impacted.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No Comments:

Both samples, B2-100809 and B92-100809, were nondetect for this analyte. Sample results in the affected samples were flagged J.

vii. Data quality or usability affected? Explain.

Comments:

All data was considered usable. Bromochloromethane is not an analyte of interest (i.e. chlorinated solvents) for this sampling event.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes No Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No Comments:

not applicable

iv. Data quality or usability affected? Explain.

Comments:

no impact

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

Yes No Comments:

ii. All results less than PQL?

Yes No Comments:

All results were less than the MDL.

iii. If above PQL, what samples are affected?

Comments:

not applicable

iv. Data quality or usability affected? Explain.

Comments:

no impact

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No Comments:

ii. Submitted blind to lab?

Yes No

Comments:

Sample B92-100809 was a field duplicate of B2-100809.

iii. Precision – All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No

Comments:

iv. Data quality or usability affected? Explain.

Comments:

no impact

f. Decontamination or Equipment Blank (if applicable)

Yes No Not Applicable

i. All results less than PQL?

Yes No

Comments:

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? Explain.

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No

Comments:



SGS North America Inc.
Alaska Division
Level II Laboratory Data Report

Project: ML&P, Ops & Dispatch
Client: Hoefler Consulting Group
SGS Work Order: 1095500

Released by:

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

Note:
Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

Case Narrative

Customer: HOEFLCG

Hoefler Consulting Group

Project: 1095500

ML&P, Ops & Dispatch

Refer to the sample receipt form for information on sample condition.

931669 MSD

931667MSD

8260B - MS/MSD RPD for bromochloromethane does not meet QC criteria. This analyte was not detected above the PQL in the associated samples.

931619 MB

VXX/20106]

8260B - MB detect for cis-1,2-dichloroethene, trichloroethene and tetrachloroethene. These analytes were not detected above the PQL or 10X higher in the associated samples.

931413 LCS

VXX/20101]

8260B - LCS recoveries for several analytes do not meet QC criteria (biased high). These analytes were not detected above the PQL in the associated samples

931620 LCS

VXX/20106]

8260B - LCS recovery for 2,2-dichloropropane does not meet QC criteria (biased low). This analyte was not reported in the associated samples.

931414 LCSD

VXX/20101

8260B - LCSD recoveries for several analytes do not meet QC criteria (biased high). These analytes were not detected above the PQL in the associated samples

931415 CCV

VMS/10917]

8260B - CCV recoveries for several analytes do not meet QC criteria (biased high). These analytes were not detected above the PQL in the associated samples

931621 CCV

VMS/10922]

8260B - CCV recoveries for bromomethane and 2,2-dichloropropane do not meet QC criteria (biased low). These analytes were not reported in the associated samples

931966 CCV

VMS/10929]

8260B - CCV recovery for 2-butanone does not meet QC criteria (biased high). This analyte was not detected above the PQL in the associated samples

931622 IB

VMS/10922]

8260B - IB detect for cis-1,2-dichloroethene, trichloroethene and tetrachloroethene. These analytes were not detected above the PQL or 10X higher in the associated samples.



Report of Manual Integrations

Print Date: 10/22/2009 3:38 pm

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analytical Batch</u>	<u>Method</u>	<u>Analyte</u>	<u>Reason</u>
931024	LCS for HBN 221434 [XXX/21803]	XGC6762	SW8082A	Aroclor-1260	RP
931025	LCSD for HBN 221434 [XXX/21803]	XGC6762	SW8082A	Aroclor-1016	BLC
931546	CCV for HBN 221536 (XGC/6762)	XGC6762	SW8082A	Aroclor-1016	BLC
931548	CCV for HBN 221536 (XGC/6762)	XGC6762	SW8082A	Aroclor-1260	RP

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.



Laboratory Analytical Report

Client: **Hoefler Consulting Group**

3401 Minnesota Dr.
Suite 300
Anchorage, AK 99503

Attn: **Wendy Mitchell**

T: (907)563-2196 F:(907)563-2164
wmitchell@hoeflernet.com

Project: **ML&P, Ops & Dispatch**

Workorder No.: **1095500**

Certification:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, other than the conditions noted on the sample data sheet(s) and/or the case narrative. This certification applies only to the tested parameters and the specific sample(s) received at the laboratory.

If you have any questions regarding this report, or if we can be of further assistance, please contact your SGS Project Manager.

Jennifer Serna

Project Manager



Enclosed are the analytical results associated with this workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program is available at your request.

The Laboratory certification numbers are AK971-05 (DW), UTS-005 (CS) and AK00971 (Micro) for ADEC and AK100001 for NELAP (RCRA methods: 1020A, 1311, 6010B, 7470A, 7471A, 9040B, 9045C, 9056, 9060, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any assistance, please contact your SGS Project Manager at 907-562-2343. All work is being provided under SGS general terms and conditions (http://www.sgs.com/terms_and_conditions.htm)

The following descriptors may be found on your report which will serve to further qualify the data.

MDL	Method Detection Limit
PQL	Practical Quantitation Limit (reporting limit).
CL	Control Limit
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
D	The analyte concentration is the result of dilution.
GT	Greater Than
LT	Less Than
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
E	The analyte result is above the calibrated range.
R	Rejected
DF	Analytical Dilution Factor
JL	The analyte was positively identified, but the quantitation is a low estimation.
<Surr>	Surrogate QC spiked standard
<Surr/IS>	Surrogate / Internal Standard QC spiked standard
QC	Quality Control
QA	Quality Assurance
MB	Method Blank
LCS (D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
BMS(D)	Site Specific Matrix Spike (Duplicate)
RPD	Relative Percent Difference
ICV	Initial Calibration Verification
CCV	Continuous Calibration Verification
MSA	Method of Standard Addition

Notes: Soil samples are reported on a dry weight basis unless otherwise specified

All DRO/RRO analyses are integrated per SOP.



SAMPLE SUMMARY

Print Date: 10/22/2009 3:38 pm

Client Name: Hoefler Consulting Group
Project Name: ML&P, Ops & Dispatch
Workorder No.: 1095500

Analytical Methods

<u>Method Description</u>	<u>Analytical Method</u>
Diesel/Residual Range Organics Water	AK102
Diesel/Residual Range Organics Water	AK103
SW8082 PCB's	SW8082A
Volatile Organic Compounds (W) FULL	SW8260B

Sample ID Cross Reference

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
1095500001	B1-100809
1095500002	B2-100809
1095500003	2A1-100809
1095500004	B92-100809
1095500005	TB



Detectable Results Summary

Print Date: 10/22/2009 3:38 pm

Client Sample ID: **B1-100809**

SGS Ref. #: 1095500001

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.192 J	mg/L

Client Sample ID: **B2-100809**

SGS Ref. #: 1095500002

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.273 J	mg/L

Volatile Gas Chromatography/Mass Spectroscopy

cis-1,2-Dichloroethene	12.0	ug/L
Tetrachloroethene	28.1	ug/L
Trichloroethene	11.5	ug/L

Client Sample ID: **2A1-100809**

SGS Ref. #: 1095500003

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.205 J	mg/L

Client Sample ID: **B92-100809**

SGS Ref. #: 1095500004

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.239 J	mg/L

Volatile Gas Chromatography/Mass Spectroscopy

cis-1,2-Dichloroethene	11.8	ug/L
Tetrachloroethene	26.3	ug/L
Trichloroethene	11.6	ug/L



Client Sample ID: **B1-100809**
SGS Ref. #: 1095500001
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 11:00
Receipt Date/Time: 10/09/09 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	ND	0.889	0.278	mg/L	1	XFC8973	XXX21837	
Residual Range Organics	0.192 J	0.556	0.167	mg/L	1	XFC8973	XXX21837	
n-Triacontane-d62 <surr>	85.6	50-150		%	1	XFC8973	XXX21837	
5a Androstane <surr>	76.1	50-150		%	1	XFC8973	XXX21837	

Batch Information

Analytical Batch: XFC8973
Analytical Method: AK102
Analysis Date/Time: 10/19/09 17:21
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500001-C
Analyst: KDC

Analytical Batch: XFC8973
Analytical Method: AK103
Analysis Date/Time: 10/19/09 17:21
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500001-C
Analyst: KDC



Client Sample ID: **B1-100809**
SGS Ref. #: 1095500001
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 11:00
Receipt Date/Time: 10/09/09 11:10

Polychlorinated Biphenyls

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1221	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1232	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1242	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1248	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1254	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Aroclor-1260	ND	0.103	0.0320	ug/L	1	XGC6762	XXX21803	
Decachlorobiphenyl <sur>	89	50-121		%	1	XGC6762	XXX21803	

Batch Information

Analytical Batch: XGC6762
Analytical Method: SW8082A
Analysis Date/Time: 10/13/09 13:46
Dilution Factor: 1

Prep Batch: XXX21803
Prep Method: SW3520C
Prep Date/Time: 10/12/09 10:00

Initial Prep Wt./Vol.: 970 mL
Prep Extract Vol.: 1 mL
Container ID: 1095500001-A
Analyst: RTS



Client Sample ID: **B2-100809**
SGS Ref. #: 1095500002
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	ND	0.889	0.278	mg/L	1	XFC8973	XXX21837	
Residual Range Organics	0.273 J	0.556	0.167	mg/L	1	XFC8973	XXX21837	
n-Triacontane-d62 <surr>	103	50-150		%	1	XFC8973	XXX21837	
5a Androstane <surr>	91.5	50-150		%	1	XFC8973	XXX21837	

Batch Information

Analytical Batch: XFC8973
Analytical Method: AK102
Analysis Date/Time: 10/19/09 17:32
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500002-F
Analyst: KDC

Analytical Batch: XFC8973
Analytical Method: AK103
Analysis Date/Time: 10/19/09 17:32
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500002-F
Analyst: KDC



Client Sample ID: **B2-100809**
SGS Ref. #: 1095500002
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Polychlorinated Biphenyls

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1221	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1232	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1242	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1248	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1254	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Aroclor-1260	ND	0.114	0.0354	ug/L	1	XGC6762	XXX21803	
Decachlorobiphenyl <sur>	87	50-121		%	1	XGC6762	XXX21803	

Batch Information

Analytical Batch: XGC6762
Analytical Method: SW8082A
Analysis Date/Time: 10/13/09 13:58
Dilution Factor: 1

Prep Batch: XXX21803
Prep Method: SW3520C
Prep Date/Time: 10/12/09 10:00

Initial Prep Wt./Vol.: 875 mL
Prep Extract Vol.: 1 mL
Container ID: 1095500002-D
Analyst: RTS



Client Sample ID: **B2-100809**
SGS Ref. #: 1095500002
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS10922	VXX20106	
Toluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Carbon disulfide	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
4-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
cis-1,2-Dichloroethene	12.0	1.00	0.310	ug/L	1	VMS10929	VXX20116	
4-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Styrene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS10922	VXX20106	
Tetrachloroethene	28.1	1.00	0.310	ug/L	1	VMS10929	VXX20116	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS10922	VXX20106	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
Chloroform	ND	1.00	0.300	ug/L	1	VMS10922	VXX20106	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS10929	VXX20116	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	



Client Sample ID: **B2-100809**
 SGS Ref. #: 1095500002
 Project ID: ML&P, Ops & Dispatch
 Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
 Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS10922	VXX20106	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromoform	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Xylenes (total)	ND	2.00	1.00	ug/L	1	VMS10922	VXX20106	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Trichloroethene	11.5	1.00	0.310	ug/L	1	VMS10929	VXX20116	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10929	VXX20116	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Hexanone	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2-Dichloroethane-D4 <surr>	100	73-120		%	1	VMS10922	VXX20106	
Toluene-d8 <surr>	100	80-120		%	1	VMS10922	VXX20106	
4-Bromofluorobenzene <surr>	93.9	76-120		%	1	VMS10922	VXX20106	



Client Sample ID: **B2-100809**
SGS Ref. #: 1095500002
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS10922			Prep Batch: VXX20106				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 10/13/09 13:56			Prep Date/Time: 10/12/09 09:52				Container ID:1095500002-A	
Dilution Factor: 1							Analyst: SCL	
Analytical Batch: VMS10929			Prep Batch: VXX20116				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 10/14/09 20:22			Prep Date/Time: 10/14/09 08:58				Container ID:1095500002-B	
Dilution Factor: 1							Analyst: SCL	



Client Sample ID: **2A1-100809**
SGS Ref. #: 1095500003
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 15:20
Receipt Date/Time: 10/09/09 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	ND	0.889	0.278	mg/L	1	XFC8973	XXX21837	
Residual Range Organics	0.205 J	0.556	0.167	mg/L	1	XFC8973	XXX21837	
n-Triacontane-d62 <surr>	85.1	50-150		%	1	XFC8973	XXX21837	
5a Androstane <surr>	76.6	50-150		%	1	XFC8973	XXX21837	

Batch Information

Analytical Batch: XFC8973
Analytical Method: AK102
Analysis Date/Time: 10/19/09 17:42
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500003-C
Analyst: KDC

Analytical Batch: XFC8973
Analytical Method: AK103
Analysis Date/Time: 10/19/09 17:42
Dilution Factor: 1

Prep Batch: XXX21837
Prep Method: SW3520C
Prep Date/Time: 10/16/09 10:18

Initial Prep Wt./Vol.: 900 mL
Prep Extract Vol.: 1 mL
Container ID:1095500003-C
Analyst: KDC



Client Sample ID: **2A1-100809**
SGS Ref. #: 1095500003
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 15:20
Receipt Date/Time: 10/09/09 11:10

Polychlorinated Biphenyls

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1221	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1232	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1242	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1248	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1254	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Aroclor-1260	ND	0.106	0.0330	ug/L	1	XGC6762	XXX21803	
Decachlorobiphenyl <sur>	90	50-121		%	1	XGC6762	XXX21803	

Batch Information

Analytical Batch: XGC6762
Analytical Method: SW8082A
Analysis Date/Time: 10/13/09 14:11
Dilution Factor: 1

Prep Batch: XXX21803
Prep Method: SW3520C
Prep Date/Time: 10/12/09 10:00

Initial Prep Wt./Vol.: 940 mL
Prep Extract Vol.: 1 mL
Container ID: 1095500003-A
Analyst: RTS



Client Sample ID: **B92-100809**
SGS Ref. #: 1095500004
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	ND	0.889	0.278	mg/L	1	XFC8973	XXX21837	
Residual Range Organics	0.239 J	0.556	0.167	mg/L	1	XFC8973	XXX21837	
n-Triacontane-d62 <surr>	97.5	50-150		%	1	XFC8973	XXX21837	
5a Androstane <surr>	81.4	50-150		%	1	XFC8973	XXX21837	

Batch Information

Analytical Batch: XFC8973	Prep Batch: XXX21837	Initial Prep Wt./Vol.: 900 mL
Analytical Method: AK102	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 10/19/09 17:53	Prep Date/Time: 10/16/09 10:18	Container ID:1095500004-F
Dilution Factor: 1		Analyst: KDC
Analytical Batch: XFC8973	Prep Batch: XXX21837	Initial Prep Wt./Vol.: 900 mL
Analytical Method: AK103	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 10/19/09 17:53	Prep Date/Time: 10/16/09 10:18	Container ID:1095500004-F
Dilution Factor: 1		Analyst: KDC



Client Sample ID: **B92-100809**
SGS Ref. #: 1095500004
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Polychlorinated Biphenyls

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Aroclor-1016	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1221	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1232	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1242	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1248	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1254	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Aroclor-1260	ND	0.109	0.0339	ug/L	1	XGC6762	XXX21803	
Decachlorobiphenyl <sur>	89	50-121		%	1	XGC6762	XXX21803	

Batch Information

Analytical Batch: XGC6762
Analytical Method: SW8082A
Analysis Date/Time: 10/13/09 14:23
Dilution Factor: 1

Prep Batch: XXX21803
Prep Method: SW3520C
Prep Date/Time: 10/12/09 10:00

Initial Prep Wt./Vol.: 915 mL
Prep Extract Vol.: 1 mL
Container ID: 1095500004-D
Analyst: RTS



Client Sample ID: **B92-100809**
SGS Ref. #: 1095500004
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS10922	VXX20106	
Toluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Carbon disulfide	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
4-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
cis-1,2-Dichloroethene	11.8	1.00	0.310	ug/L	1	VMS10929	VXX20116	
4-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Styrene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS10922	VXX20106	
Tetrachloroethene	26.3	1.00	0.310	ug/L	1	VMS10929	VXX20116	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS10922	VXX20106	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
Chloroform	ND	1.00	0.300	ug/L	1	VMS10922	VXX20106	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS10929	VXX20116	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	



Client Sample ID: **B92-100809**
SGS Ref. #: 1095500004
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS10922	VXX20106	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS10922	VXX20106	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS10922	VXX20106	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Bromoform	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Xylenes (total)	ND	2.00	1.00	ug/L	1	VMS10922	VXX20106	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Trichloroethene	11.6	1.00	0.310	ug/L	1	VMS10929	VXX20116	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10929	VXX20116	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
2-Hexanone	ND	10.0	3.10	ug/L	1	VMS10922	VXX20106	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10922	VXX20106	
1,2-Dichloroethane-D4 <surrg>	98.6	73-120		%	1	VMS10922	VXX20106	
Toluene-d8 <surrg>	99.7	80-120		%	1	VMS10922	VXX20106	
4-Bromofluorobenzene <surrg>	93.4	76-120		%	1	VMS10922	VXX20106	



Client Sample ID: **B92-100809**
SGS Ref. #: 1095500004
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 12:15
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS10922			Prep Batch: VXX20106				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 10/13/09 14:29			Prep Date/Time: 10/12/09 09:52				Container ID:1095500004-A	
Dilution Factor: 1							Analyst: SCL	
Analytical Batch: VMS10929			Prep Batch: VXX20116				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 10/14/09 20:55			Prep Date/Time: 10/14/09 08:58				Container ID:1095500004-B	
Dilution Factor: 1							Analyst: SCL	



Client Sample ID: **TB**
SGS Ref. #: 1095500005
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 11:00
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS10917	VXX20101	
Toluene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
n-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Carbon disulfide	ND	2.00	0.620	ug/L	1	VMS10917	VXX20101	
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
1,2-Dichloroethane	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
4-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Chlorobenzene	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	1	VMS10917	VXX20101	
cis-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
4-Isopropyltoluene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
n-Propylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Styrene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Dibromomethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	1	VMS10917	VXX20101	
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	1	VMS10917	VXX20101	
Tetrachloroethene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Dibromochloromethane	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
1,3-Dichloropropane	ND	0.400	0.120	ug/L	1	VMS10917	VXX20101	
1,2-Dibromoethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Carbon tetrachloride	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
Chloroform	ND	1.00	0.300	ug/L	1	VMS10917	VXX20101	
Bromobenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Chloromethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Bromomethane	ND	3.00	0.940	ug/L	1	VMS10917	VXX20101	
Bromochloromethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Vinyl chloride	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	



Client Sample ID: **TB**
SGS Ref. #: 1095500005
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 11:00
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Chloroethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
sec-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Bromodichloromethane	ND	0.500	0.150	ug/L	1	VMS10917	VXX20101	
1,1-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
2-Butanone (MEK)	ND	10.0	3.10	ug/L	1	VMS10917	VXX20101	
Methylene chloride	ND	5.00	1.00	ug/L	1	VMS10917	VXX20101	
Trichlorofluoromethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS10917	VXX20101	
Naphthalene	ND	2.00	0.620	ug/L	1	VMS10917	VXX20101	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Bromoform	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Xylenes (total)	ND	2.00	1.00	ug/L	1	VMS10917	VXX20101	
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
tert-Butylbenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1-Dichloroethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
2-Chlorotoluene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Trichloroethene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
2,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Hexachlorobutadiene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
2-Hexanone	ND	10.0	3.10	ug/L	1	VMS10917	VXX20101	
1,2-Dichloropropane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1-Dichloropropene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	1	VMS10917	VXX20101	
1,2-Dichloroethane-D4 <surr>	96.1	73-120		%	1	VMS10917	VXX20101	
Toluene-d8 <surr>	103	80-120		%	1	VMS10917	VXX20101	
4-Bromofluorobenzene <surr>	93.6	76-120		%	1	VMS10917	VXX20101	



Client Sample ID: **TB**
SGS Ref. #: 1095500005
Project ID: ML&P, Ops & Dispatch
Matrix: Water (Surface, Eff., Ground)

Collection Date/Time: 10/08/09 11:00
Receipt Date/Time: 10/09/09 11:10

Volatile Gas Chromatography/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Batch Information								
Analytical Batch: VMS10917			Prep Batch: VXX20101				Initial Prep Wt./Vol.: 5 mL	
Analytical Method: SW8260B			Prep Method: SW5030B				Prep Extract Vol.: 5 mL	
Analysis Date/Time: 10/12/09 19:09			Prep Date/Time: 10/12/09 08:27				Container ID:1095500005-A	
Dilution Factor: 1							Analyst: SCL	



SGS Ref.# 931023 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch XXX21803
Method SW3520C
Date 10/12/2009

QC results affect the following production samples:
 1095500001, 1095500002, 1095500003, 1095500004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Polychlorinated Biphenyls</u>					
Aroclor-1016	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1221	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1232	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1242	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1248	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1254	ND	0.100	0.0310	ug/L	10/13/09
Aroclor-1260	ND	0.100	0.0310	ug/L	10/13/09
Surrogates					
Decachlorobiphenyl <surr>	89	50-121		%	10/13/09
Batch	XGC6762				
Method	SW8082A				
Instrument	HP 6890 Series II ECD SV H F				



SGS Ref.# 931412 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20101
Method SW5030B
Date 10/12/2009

QC results affect the following production samples:
1095500005

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 931412 Method Blank
 Client Name Hoefler Consulting Group
 Project Name/# ML&P, Ops & Dispatch
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
 Prep Batch VXX20101
 Method SW5030B
 Date 10/12/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>					
Benzene	ND	0.400	0.120	ug/L	10/12/09
Toluene	ND	1.00	0.310	ug/L	10/12/09
Ethylbenzene	ND	1.00	0.310	ug/L	10/12/09
n-Butylbenzene	ND	1.00	0.310	ug/L	10/12/09
Carbon disulfide	ND	2.00	0.620	ug/L	10/12/09
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	10/12/09
1,2-Dichloroethane	ND	0.500	0.150	ug/L	10/12/09
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	10/12/09
4-Chlorotoluene	ND	1.00	0.310	ug/L	10/12/09
Chlorobenzene	ND	0.500	0.150	ug/L	10/12/09
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	10/12/09
cis-1,2-Dichloroethene	ND	1.00	0.310	ug/L	10/12/09
4-Isopropyltoluene	ND	1.00	0.310	ug/L	10/12/09
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	10/12/09
n-Propylbenzene	ND	1.00	0.310	ug/L	10/12/09
Styrene	ND	1.00	0.310	ug/L	10/12/09
Dibromomethane	ND	1.00	0.310	ug/L	10/12/09
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	10/12/09
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	10/12/09
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	10/12/09
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	10/12/09
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	10/12/09
Tetrachloroethene	ND	1.00	0.310	ug/L	10/12/09
Dibromochloromethane	ND	0.500	0.150	ug/L	10/12/09
1,3-Dichloropropane	ND	0.400	0.120	ug/L	10/12/09
1,2-Dibromoethane	ND	1.00	0.310	ug/L	10/12/09
Carbon tetrachloride	ND	1.00	0.310	ug/L	10/12/09
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	10/12/09
Chloroform	ND	1.00	0.300	ug/L	10/12/09
Bromobenzene	ND	1.00	0.310	ug/L	10/12/09
Chloromethane	ND	1.00	0.310	ug/L	10/12/09
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	10/12/09
Bromomethane	ND	3.00	0.940	ug/L	10/12/09
Bromochloromethane	ND	1.00	0.310	ug/L	10/12/09
Vinyl chloride	ND	1.00	0.310	ug/L	10/12/09
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	10/12/09
Chloroethane	ND	1.00	0.310	ug/L	10/12/09
sec-Butylbenzene	ND	1.00	0.310	ug/L	10/12/09
Bromodichloroethane	ND	0.500	0.150	ug/L	10/12/09



SGS Ref.# 931412 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20101
Method SW5030B
Date 10/12/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,1-Dichloroethene	ND	1.00	0.310	ug/L	10/12/09
2-Butanone (MEK)	ND	10.0	3.10	ug/L	10/12/09
Methylene chloride	ND	5.00	1.00	ug/L	10/12/09
Trichlorofluoromethane	ND	1.00	0.310	ug/L	10/12/09
P & M -Xylene	ND	2.00	0.620	ug/L	10/12/09
Naphthalene	ND	2.00	0.620	ug/L	10/12/09
o-Xylene	ND	1.00	0.310	ug/L	10/12/09
Bromoform	ND	1.00	0.310	ug/L	10/12/09
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	10/12/09
tert-Butylbenzene	ND	1.00	0.310	ug/L	10/12/09
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	10/12/09
1,1-Dichloroethane	ND	1.00	0.310	ug/L	10/12/09
2-Chlorotoluene	ND	1.00	0.310	ug/L	10/12/09
Trichloroethene	ND	1.00	0.310	ug/L	10/12/09
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	10/12/09
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	10/12/09
2,2-Dichloropropane	ND	1.00	0.310	ug/L	10/12/09
Hexachlorobutadiene	ND	1.00	0.310	ug/L	10/12/09
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	10/12/09
2-Hexanone	ND	10.0	3.10	ug/L	10/12/09
1,2-Dichloropropane	ND	1.00	0.310	ug/L	10/12/09
1,1-Dichloropropene	ND	1.00	0.310	ug/L	10/12/09
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	10/12/09
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	10/12/09
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	10/12/09

Surrogates

1,2-Dichloroethane-D4 <surr>	99.8	73-120		%	10/12/09
Toluene-d8 <surr>	102	80-120		%	10/12/09
4-Bromofluorobenzene <surr>	94.8	76-120		%	10/12/09

Batch VMS10917
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 931619 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20106
Method SW5030B
Date 10/12/2009

QC results affect the following production samples:
1095500002, 1095500004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 931619 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20106
Method SW5030B
Date 10/12/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>					
Benzene	ND	0.400	0.120	ug/L	10/13/09
Toluene	ND	1.00	0.310	ug/L	10/13/09
Ethylbenzene	ND	1.00	0.310	ug/L	10/13/09
n-Butylbenzene	ND	1.00	0.310	ug/L	10/13/09
Carbon disulfide	ND	2.00	0.620	ug/L	10/13/09
1,4-Dichlorobenzene	ND	0.500	0.150	ug/L	10/13/09
1,2-Dichloroethane	ND	0.500	0.150	ug/L	10/13/09
1,3,5-Trimethylbenzene	ND	1.00	0.310	ug/L	10/13/09
4-Chlorotoluene	ND	1.00	0.310	ug/L	10/13/09
Chlorobenzene	ND	0.500	0.150	ug/L	10/13/09
4-Methyl-2-pentanone (MIBK)	ND	10.0	3.10	ug/L	10/13/09
4-Isopropyltoluene	ND	1.00	0.310	ug/L	10/13/09
cis-1,3-Dichloropropene	ND	0.500	0.150	ug/L	10/13/09
n-Propylbenzene	ND	1.00	0.310	ug/L	10/13/09
Styrene	ND	1.00	0.310	ug/L	10/13/09
Dibromomethane	ND	1.00	0.310	ug/L	10/13/09
trans-1,3-Dichloropropene	ND	1.00	0.310	ug/L	10/13/09
1,2,4-Trichlorobenzene	ND	1.00	0.310	ug/L	10/13/09
1,1,2,2-Tetrachloroethane	ND	0.500	0.150	ug/L	10/13/09
1,2-Dibromo-3-chloropropane	ND	2.00	0.620	ug/L	10/13/09
Methyl-t-butyl ether	ND	5.00	1.50	ug/L	10/13/09
Dibromochloromethane	ND	0.500	0.150	ug/L	10/13/09
1,3-Dichloropropane	ND	0.400	0.120	ug/L	10/13/09
1,2-Dibromoethane	ND	1.00	0.310	ug/L	10/13/09
Carbon tetrachloride	ND	1.00	0.310	ug/L	10/13/09
1,1,1,2-Tetrachloroethane	ND	0.500	0.150	ug/L	10/13/09
Chloroform	ND	1.00	0.300	ug/L	10/13/09
Bromobenzene	ND	1.00	0.310	ug/L	10/13/09
Chloromethane	ND	1.00	0.310	ug/L	10/13/09
1,2,3-Trichloropropane	ND	1.00	0.310	ug/L	10/13/09
Bromochloromethane	ND	1.00	0.310	ug/L	10/13/09
Vinyl chloride	ND	1.00	0.310	ug/L	10/13/09
Dichlorodifluoromethane	ND	1.00	0.310	ug/L	10/13/09
Chloroethane	ND	1.00	0.310	ug/L	10/13/09
sec-Butylbenzene	ND	1.00	0.310	ug/L	10/13/09
Bromodichloromethane	ND	0.500	0.150	ug/L	10/13/09
1,1-Dichloroethene	ND	1.00	0.310	ug/L	10/13/09
2-Butanone (MEK)	ND	10.0	3.10	ug/L	10/13/09
Methylene chloride	ND	5.00	1.00	ug/L	10/13/09



SGS Ref.# 931619 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20106
Method SW5030B
Date 10/12/2009

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Trichlorofluoromethane	ND	1.00	0.310	ug/L	10/13/09
P & M -Xylene	ND	2.00	0.620	ug/L	10/13/09
Naphthalene	ND	2.00	0.620	ug/L	10/13/09
o-Xylene	ND	1.00	0.310	ug/L	10/13/09
Bromoform	ND	1.00	0.310	ug/L	10/13/09
1,2,4-Trimethylbenzene	ND	1.00	0.310	ug/L	10/13/09
tert-Butylbenzene	ND	1.00	0.310	ug/L	10/13/09
1,1,1-Trichloroethane	ND	1.00	0.310	ug/L	10/13/09
1,1-Dichloroethane	ND	1.00	0.310	ug/L	10/13/09
2-Chlorotoluene	ND	1.00	0.310	ug/L	10/13/09
trans-1,2-Dichloroethene	ND	1.00	0.310	ug/L	10/13/09
1,2-Dichlorobenzene	ND	1.00	0.310	ug/L	10/13/09
Hexachlorobutadiene	ND	1.00	0.310	ug/L	10/13/09
Isopropylbenzene (Cumene)	ND	1.00	0.310	ug/L	10/13/09
2-Hexanone	ND	10.0	3.10	ug/L	10/13/09
1,2-Dichloropropane	ND	1.00	0.310	ug/L	10/13/09
1,1-Dichloropropene	ND	1.00	0.310	ug/L	10/13/09
1,1,2-Trichloroethane	ND	1.00	0.310	ug/L	10/13/09
1,3-Dichlorobenzene	ND	1.00	0.310	ug/L	10/13/09
1,2,3-Trichlorobenzene	ND	1.00	0.310	ug/L	10/13/09

Surrogates

1,2-Dichloroethane-D4 <surr>	93.7	73-120		%	10/13/09
Toluene-d8 <surr>	99.6	80-120		%	10/13/09
4-Bromofluorobenzene <surr>	96.8	76-120		%	10/13/09

Batch VMS10922
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 931964 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20116
Method SW5030B
Date 10/14/2009

QC results affect the following production samples:
1095500002, 1095500004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>					
cis-1,2-Dichloroethene	ND	1.00	0.310	ug/L	10/14/09
Tetrachloroethene	ND	1.00	0.310	ug/L	10/14/09
Bromomethane	ND	3.00	0.940	ug/L	10/14/09
Trichloroethene	ND	1.00	0.310	ug/L	10/14/09
2,2-Dichloropropane	ND	1.00	0.310	ug/L	10/14/09
Surrogates					
1,2-Dichloroethane-D4 <surr>	101	73-120		%	10/14/09
Toluene-d8 <surr>	98.6	80-120		%	10/14/09
4-Bromofluorobenzene <surr>	107	76-120		%	10/14/09
Batch	VMS10929				
Method	SW8260B				
Instrument	HP 5890 Series II MS1 VJA				



SGS Ref.# 932230 Method Blank
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch XXX21837
Method SW3520C
Date 10/16/2009

QC results affect the following production samples:
 1095500001, 1095500002, 1095500003, 1095500004

Parameter	Results	Reporting/Control Limit	MDL	Units	Analysis Date
<u>Semivolatile Organic Fuels Department</u>					
Diesel Range Organics	ND	0.800	0.250	mg/L	10/19/09
Surrogates					
5a Androstane <surr>	75.2	60-120		%	10/19/09
Batch	XFC8973				
Method	AK102				
Instrument	HP 6890 Series II FID SV D R				
Residual Range Organics	ND	0.500	0.150	mg/L	10/19/09
Surrogates					
n-Triacontane-d62 <surr>	83.7	60-120		%	10/19/09
Batch	XFC8973				
Method	AK103				
Instrument	HP 6890 Series II FID SV D R				



SGS Ref.# 931024 Lab Control Sample
 931025 Lab Control Sample Duplicate
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch XXX21803
Method SW3520C
Date 10/12/2009

QC results affect the following production samples:
 1095500001, 1095500002, 1095500003, 1095500004

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Polychlorinated Biphenyls</u>							
Aroclor-1016	LCS	0.870	87	(60-140)		1 ug/L	10/13/2009
	LCSD	0.780	78		11	(< 25)	10/13/2009
Aroclor-1260	LCS	0.830	83	(63-123)		1 ug/L	10/13/2009
	LCSD	0.800	80		4	(< 25)	10/13/2009
Surrogates							
Decachlorobiphenyl <surr>	LCS		86	(50-121)			10/13/2009
	LCSD		88		2		10/13/2009

Batch XGC6762
Method SW8082A
Instrument HP 6890 Series II ECD SV H F



SGS Ref.# 931413 Lab Control Sample
931414 Lab Control Sample Duplicate
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20101
Method SW5030B
Date 10/12/2009

QC results affect the following production samples:

1095500005

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.#	931413	Lab Control Sample	Printed Date/Time	10/22/2009	15:38
	931414	Lab Control Sample Duplicate	Prep	Batch	VXX20101
Client Name	Hoefler Consulting Group		Method	SW5030B	
Project Name/#	ML&P, Ops & Dispatch		Date	10/12/2009	
Matrix	Water (Surface, Eff., Ground)				

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Benzene	LCS	32.6	109	(80-120)		30 ug/L	10/12/2009
	LCSD	33.4	111		2	(< 20)	30 ug/L
Toluene	LCS	31.0	103	(77-120)		30 ug/L	10/12/2009
	LCSD	32.4	108		5	(< 20)	30 ug/L
Ethylbenzene	LCS	33.1	110	(80-120)		30 ug/L	10/12/2009
	LCSD	34.5	115		4	(< 20)	30 ug/L
n-Butylbenzene	LCS	31.2	104	(80-124)		30 ug/L	10/12/2009
	LCSD	31.6	105		1	(< 20)	30 ug/L
Carbon disulfide	LCS	46.8	104	(72-123)		45 ug/L	10/12/2009
	LCSD	50.3	112		7	(< 20)	45 ug/L
1,4-Dichlorobenzene	LCS	31.1	104	(80-120)		30 ug/L	10/12/2009
	LCSD	31.8	106		2	(< 20)	30 ug/L
1,2-Dichloroethane	LCS	31.0	103	(80-129)		30 ug/L	10/12/2009
	LCSD	31.6	105		2	(< 20)	30 ug/L
1,3,5-Trimethylbenzene	LCS	29.2	97	(80-128)		30 ug/L	10/12/2009
	LCSD	29.9	100		2	(< 20)	30 ug/L
4-Chlorotoluene	LCS	28.3	94	(79-128)		30 ug/L	10/12/2009
	LCSD	29.0	97		3	(< 20)	30 ug/L
Chlorobenzene	LCS	32.9	110	(80-120)		30 ug/L	10/12/2009
	LCSD	34.3	114		4	(< 20)	30 ug/L
4-Methyl-2-pentanone (MIBK)	LCS	110	123	(69-134)		90 ug/L	10/12/2009
	LCSD	105	116		5	(< 20)	90 ug/L
cis-1,2-Dichloroethene	LCS	33.0	110	(80-125)		30 ug/L	10/12/2009
	LCSD	34.3	114		4	(< 20)	30 ug/L
4-Isopropyltoluene	LCS	30.4	101	(80-125)		30 ug/L	10/12/2009
	LCSD	31.1	104		2	(< 20)	30 ug/L
cis-1,3-Dichloropropene	LCS	34.6	115	(80-120)		30 ug/L	10/12/2009
	LCSD	33.7	112		2	(< 20)	30 ug/L



SGS Ref.#	931413	Lab Control Sample	Printed Date/Time	10/22/2009	15:38
	931414	Lab Control Sample Duplicate	Prep	VXX20101	
Client Name	Hoefler Consulting Group		Batch	SW5030B	
Project Name/#	ML&P, Ops & Dispatch		Method		
Matrix	Water (Surface, Eff., Ground)		Date	10/12/2009	

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
n-Propylbenzene	LCS	27.7	92	(80-129)		30 ug/L	10/12/2009
	LCSD	28.5	95		3	(< 20)	30 ug/L 10/12/2009
Styrene	LCS	33.7	112	(80-120)		30 ug/L	10/12/2009
	LCSD	35.0	117		4	(< 20)	30 ug/L 10/12/2009
Dibromomethane	LCS	32.8	109	(80-120)		30 ug/L	10/12/2009
	LCSD	32.6	109		1	(< 20)	30 ug/L 10/12/2009
trans-1,3-Dichloropropene	LCS	34.3	114	(80-124)		30 ug/L	10/12/2009
	LCSD	33.2	111		3	(< 20)	30 ug/L 10/12/2009
1,2,4-Trichlorobenzene	LCS	32.9	110	(80-120)		30 ug/L	10/12/2009
	LCSD	32.9	110		0	(< 20)	30 ug/L 10/12/2009
1,1,2,2-Tetrachloroethane	LCS	30.3	101	(76-123)		30 ug/L	10/12/2009
	LCSD	30.4	101		0	(< 20)	30 ug/L 10/12/2009
1,2-Dibromo-3-chloropropane	LCS	33.1	110	(73-130)		30 ug/L	10/12/2009
	LCSD	33.3	111		1	(< 20)	30 ug/L 10/12/2009
Methyl-t-butyl ether	LCS	47.2	105	(80-120)		45 ug/L	10/12/2009
	LCSD	47.3	105		0	(< 20)	45 ug/L 10/12/2009
Tetrachloroethene	LCS	37.0	123 *	(79-122)		30 ug/L	10/12/2009
	LCSD	38.7	129 *		5	(< 20)	30 ug/L 10/12/2009
Dibromochloromethane	LCS	35.4	118	(80-120)		30 ug/L	10/12/2009
	LCSD	36.3	121 *		3	(< 20)	30 ug/L 10/12/2009
1,3-Dichloropropane	LCS	32.4	108	(80-121)		30 ug/L	10/12/2009
	LCSD	33.0	110		2	(< 20)	30 ug/L 10/12/2009
1,2-Dibromoethane	LCS	33.9	113	(80-120)		30 ug/L	10/12/2009
	LCSD	33.6	112		1	(< 20)	30 ug/L 10/12/2009
Carbon tetrachloride	LCS	36.2	121	(80-126)		30 ug/L	10/12/2009
	LCSD	37.5	125		4	(< 20)	30 ug/L 10/12/2009
1,1,1,2-Tetrachloroethane	LCS	35.1	117	(80-120)		30 ug/L	10/12/2009



SGS Ref.#	931413 Lab Control Sample	Printed Date/Time	10/22/2009 15:38
	931414 Lab Control Sample Duplicate	Prep	VXX20101
Client Name	Hoefler Consulting Group	Batch	SW5030B
Project Name/#	ML&P, Ops & Dispatch	Method	
Matrix	Water (Surface, Eff., Ground)	Date	10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
	LCS	36.4	121 *	4	(< 20)	30 ug/L	10/12/2009
Chloroform	LCS	31.9	106 (80-124)			30 ug/L	10/12/2009
	LCS	32.5	108	2	(< 20)	30 ug/L	10/12/2009
Bromobenzene	LCS	31.2	104 (80-120)			30 ug/L	10/12/2009
	LCS	31.4	105	0	(< 20)	30 ug/L	10/12/2009
Chloromethane	LCS	31.1	104 (67-125)			30 ug/L	10/12/2009
	LCS	33.4	111	7	(< 20)	30 ug/L	10/12/2009
1,2,3-Trichloropropane	LCS	29.1	97 (80-120)			30 ug/L	10/12/2009
	LCS	29.3	98	1	(< 20)	30 ug/L	10/12/2009
Bromomethane	LCS	28.9	96 (30-140)			30 ug/L	10/12/2009
	LCS	31.5	105	9	(< 20)	30 ug/L	10/12/2009
Bromochloromethane	LCS	35.5	118 (77-129)			30 ug/L	10/12/2009
	LCS	34.9	116	2	(< 20)	30 ug/L	10/12/2009
Vinyl chloride	LCS	32.6	109 (72-145)			30 ug/L	10/12/2009
	LCS	34.9	116	7	(< 20)	30 ug/L	10/12/2009
Dichlorodifluoromethane	LCS	34.4	115 (62-153)			30 ug/L	10/12/2009
	LCS	36.0	120	5	(< 20)	30 ug/L	10/12/2009
Chloroethane	LCS	31.0	103 (67-133)			30 ug/L	10/12/2009
	LCS	31.2	104	1	(< 20)	30 ug/L	10/12/2009
sec-Butylbenzene	LCS	29.5	98 (80-120)			30 ug/L	10/12/2009
	LCS	30.5	102	3	(< 20)	30 ug/L	10/12/2009
Bromodichloromethane	LCS	32.3	108 (80-120)			30 ug/L	10/12/2009
	LCS	33.3	111	3	(< 20)	30 ug/L	10/12/2009
1,1-Dichloroethene	LCS	34.2	114 (76-130)			30 ug/L	10/12/2009
	LCS	36.4	121	6	(< 20)	30 ug/L	10/12/2009
2-Butanone (MEK)	LCS	133	148 *			90 ug/L	10/12/2009
	LCS	133	147 *	0	(< 20)	90 ug/L	10/12/2009



SGS Ref.# 931413 Lab Control Sample
 931414 Lab Control Sample Duplicate
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20101
Method SW5030B
Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Methylene chloride	LCS	32.6	109	(63-131)		30 ug/L	10/12/2009
	LCSD	32.8	109		1	(< 20)	30 ug/L 10/12/2009
Trichlorofluoromethane	LCS	32.9	110	(68-145)		30 ug/L	10/12/2009
	LCSD	33.1	110		1	(< 20)	30 ug/L 10/12/2009
P & M -Xylene	LCS	65.8	110	(80-120)		60 ug/L	10/12/2009
	LCSD	68.6	114		4	(< 20)	60 ug/L 10/12/2009
Naphthalene	LCS	31.3	104	(75-120)		30 ug/L	10/12/2009
	LCSD	31.2	104		0	(< 20)	30 ug/L 10/12/2009
o-Xylene	LCS	33.5	112	(80-120)		30 ug/L	10/12/2009
	LCSD	34.5	115		3	(< 20)	30 ug/L 10/12/2009
Bromoform	LCS	37.6	125 *	(80-120)		30 ug/L	10/12/2009
	LCSD	39.0	130 *		4	(< 20)	30 ug/L 10/12/2009
1,2,4-Trimethylbenzene	LCS	29.0	97	(80-125)		30 ug/L	10/12/2009
	LCSD	29.9	100		3	(< 20)	30 ug/L 10/12/2009
tert-Butylbenzene	LCS	30.2	101	(80-122)		30 ug/L	10/12/2009
	LCSD	30.9	103		2	(< 20)	30 ug/L 10/12/2009
1,1,1-Trichloroethane	LCS	35.2	117	(80-122)		30 ug/L	10/12/2009
	LCSD	36.2	121		3	(< 20)	30 ug/L 10/12/2009
1,1-Dichloroethane	LCS	31.9	106	(80-120)		30 ug/L	10/12/2009
	LCSD	31.8	106		0	(< 20)	30 ug/L 10/12/2009
2-Chlorotoluene	LCS	28.0	93	(80-125)		30 ug/L	10/12/2009
	LCSD	28.7	96		2	(< 20)	30 ug/L 10/12/2009
Trichloroethene	LCS	34.0	113	(80-125)		30 ug/L	10/12/2009
	LCSD	35.3	118		4	(< 20)	30 ug/L 10/12/2009
trans-1,2-Dichloroethene	LCS	33.5	112	(79-132)		30 ug/L	10/12/2009
	LCSD	35.1	117		5	(< 20)	30 ug/L 10/12/2009
1,2-Dichlorobenzene	LCS	31.6	105	(80-120)		30 ug/L	10/12/2009
	LCSD	31.4	105		1	(< 20)	30 ug/L 10/12/2009



SGS Ref.#	931413 Lab Control Sample	Printed Date/Time	10/22/2009 15:38
	931414 Lab Control Sample Duplicate	Prep	VXX20101
Client Name	Hoefler Consulting Group	Batch	SW5030B
Project Name/#	ML&P, Ops & Dispatch	Method	
Matrix	Water (Surface, Eff., Ground)	Date	10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

2,2-Dichloropropane	LCS	38.5	128	(80-132)			30 ug/L	10/12/2009
	LCSD	38.7	129		0	(< 20)	30 ug/L	10/12/2009
Hexachlorobutadiene	LCS	34.5	115	(77-125)			30 ug/L	10/12/2009
	LCSD	36.0	120		4	(< 20)	30 ug/L	10/12/2009
Isopropylbenzene (Cumene)	LCS	33.4	111	(80-121)			30 ug/L	10/12/2009
	LCSD	34.7	116		4	(< 20)	30 ug/L	10/12/2009
2-Hexanone	LCS	115	128	(68-130)			90 ug/L	10/12/2009
	LCSD	114	127		1	(< 20)	90 ug/L	10/12/2009
1,2-Dichloropropane	LCS	32.3	108	(80-121)			30 ug/L	10/12/2009
	LCSD	33.1	110		3	(< 20)	30 ug/L	10/12/2009
1,1-Dichloropropene	LCS	33.9	113	(80-122)			30 ug/L	10/12/2009
	LCSD	34.5	115		2	(< 20)	30 ug/L	10/12/2009
1,1,2-Trichloroethane	LCS	31.9	106	(77-120)			30 ug/L	10/12/2009
	LCSD	32.8	109		3	(< 20)	30 ug/L	10/12/2009
1,3-Dichlorobenzene	LCS	31.8	106	(80-120)			30 ug/L	10/12/2009
	LCSD	32.2	107		1	(< 20)	30 ug/L	10/12/2009
1,2,3-Trichlorobenzene	LCS	34.2	114	(77-120)			30 ug/L	10/12/2009
	LCSD	35.0	117		2	(< 20)	30 ug/L	10/12/2009

Surrogates

1,2-Dichloroethane-D4 <surr>	LCS		97	(73-120)				10/12/2009
	LCSD		96		1			10/12/2009
Toluene-d8 <surr>	LCS		98	(80-120)				10/12/2009
	LCSD		100		2			10/12/2009
4-Bromofluorobenzene <surr>	LCS		87	(76-120)				10/12/2009
	LCSD		88		0			10/12/2009



SGS Ref.# 931413 Lab Control Sample
931414 Lab Control Sample Duplicate
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20101
Method SW5030B
Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Batch VMS10917
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 931620 Lab Control Sample

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20106
Method SW5030B
Date 10/12/2009

Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:

1095500002, 1095500004

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.# 931620 Lab Control Sample
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20106
Method SW5030B
Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Benzene	LCS 29.9	100	(80-120)			30 ug/L	10/13/2009
Toluene	LCS 29.4	98	(77-120)			30 ug/L	10/13/2009
Ethylbenzene	LCS 30.6	102	(80-120)			30 ug/L	10/13/2009
n-Butylbenzene	LCS 27.6	92	(80-124)			30 ug/L	10/13/2009
Carbon disulfide	LCS 38.0	84	(72-123)			45 ug/L	10/13/2009
1,4-Dichlorobenzene	LCS 29.4	98	(80-120)			30 ug/L	10/13/2009
1,2-Dichloroethane	LCS 25.6	85	(80-129)			30 ug/L	10/13/2009
1,3,5-Trimethylbenzene	LCS 27.4	91	(80-128)			30 ug/L	10/13/2009
4-Chlorotoluene	LCS 27.2	91	(79-128)			30 ug/L	10/13/2009
Chlorobenzene	LCS 30.5	102	(80-120)			30 ug/L	10/13/2009
4-Methyl-2-pentanone (MIBK)	LCS 103	115	(69-134)			90 ug/L	10/13/2009
4-Isopropyltoluene	LCS 28.4	95	(80-125)			30 ug/L	10/13/2009
cis-1,3-Dichloropropene	LCS 28.4	95	(80-120)			30 ug/L	10/13/2009
n-Propylbenzene	LCS 26.9	90	(80-129)			30 ug/L	10/13/2009
Styrene	LCS 32.2	107	(80-120)			30 ug/L	10/13/2009
Dibromomethane	LCS 30.3	101	(80-120)			30 ug/L	10/13/2009
trans-1,3-Dichloropropene	LCS 27.5	92	(80-124)			30 ug/L	10/13/2009
1,2,4-Trichlorobenzene	LCS 31.7	106	(80-120)			30 ug/L	10/13/2009
1,1,2,2-Tetrachloroethane	LCS 29.4	98	(76-123)			30 ug/L	10/13/2009
1,2-Dibromo-3-chloropropane	LCS 27.8	93	(73-130)			30 ug/L	10/13/2009
Methyl-t-butyl ether	LCS 40.1	89	(80-120)			45 ug/L	10/13/2009



SGS Ref.# 931620 Lab Control Sample
 Client Name Hoefler Consulting Group
 Project Name/# ML&P, Ops & Dispatch
 Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
 Prep Batch VXX20106
 Method SW5030B
 Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
<u>Volatile Gas Chromatography/Mass Spectroscopy</u>							
Dibromochloromethane	LCS 29.8	99	(80-120)			30 ug/L	10/13/2009
1,3-Dichloropropane	LCS 29.7	99	(80-121)			30 ug/L	10/13/2009
1,2-Dibromoethane	LCS 31.5	105	(80-120)			30 ug/L	10/13/2009
Carbon tetrachloride	LCS 29.5	98	(80-126)			30 ug/L	10/13/2009
1,1,1,2-Tetrachloroethane	LCS 30.5	102	(80-120)			30 ug/L	10/13/2009
Chloroform	LCS 27.4	91	(80-124)			30 ug/L	10/13/2009
Bromobenzene	LCS 29.7	99	(80-120)			30 ug/L	10/13/2009
Chloromethane	LCS 30.8	103	(67-125)			30 ug/L	10/13/2009
1,2,3-Trichloropropane	LCS 27.9	93	(80-120)			30 ug/L	10/13/2009
Bromochloromethane	LCS 29.7	99	(77-129)			30 ug/L	10/13/2009
Vinyl chloride	LCS 29.4	98	(72-145)			30 ug/L	10/13/2009
Dichlorodifluoromethane	LCS 26.8	89	(62-153)			30 ug/L	10/13/2009
Chloroethane	LCS 29.4	98	(67-133)			30 ug/L	10/13/2009
sec-Butylbenzene	LCS 27.5	92	(80-120)			30 ug/L	10/13/2009
Bromodichloromethane	LCS 30.5	102	(80-120)			30 ug/L	10/13/2009
1,1-Dichloroethene	LCS 27.8	93	(76-130)			30 ug/L	10/13/2009
2-Butanone (MEK)	LCS 92.0	102	(66-136)			90 ug/L	10/13/2009
Methylene chloride	LCS 26.2	87	(63-131)			30 ug/L	10/13/2009
Trichlorofluoromethane	LCS 26.8	89	(68-145)			30 ug/L	10/13/2009
P & M -Xylene	LCS 62.2	104	(80-120)			60 ug/L	10/13/2009



SGS Ref.# 931620 Lab Control Sample

Printed Date/Time 10/22/2009 15:38

Client Name Hoefler Consulting Group

Prep Batch VXX20106

Project Name/# ML&P, Ops & Dispatch

Method SW5030B

Matrix Water (Surface, Eff., Ground)

Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Naphthalene	LCS	30.0	100	(75-120)		30 ug/L	10/13/2009
o-Xylene	LCS	30.9	103	(80-120)		30 ug/L	10/13/2009
Bromoform	LCS	33.7	112	(80-120)		30 ug/L	10/13/2009
1,2,4-Trimethylbenzene	LCS	27.8	93	(80-125)		30 ug/L	10/13/2009
tert-Butylbenzene	LCS	28.3	95	(80-122)		30 ug/L	10/13/2009
1,1,1-Trichloroethane	LCS	28.9	96	(80-122)		30 ug/L	10/13/2009
1,1-Dichloroethane	LCS	26.3	88	(80-120)		30 ug/L	10/13/2009
2-Chlorotoluene	LCS	27.4	91	(80-125)		30 ug/L	10/13/2009
trans-1,2-Dichloroethene	LCS	27.2	91	(79-132)		30 ug/L	10/13/2009
1,2-Dichlorobenzene	LCS	29.2	97	(80-120)		30 ug/L	10/13/2009
Hexachlorobutadiene	LCS	28.5	95	(77-125)		30 ug/L	10/13/2009
Isopropylbenzene (Cumene)	LCS	30.7	102	(80-121)		30 ug/L	10/13/2009
2-Hexanone	LCS	89.6	100	(68-130)		90 ug/L	10/13/2009
1,2-Dichloropropane	LCS	30.4	101	(80-121)		30 ug/L	10/13/2009
1,1-Dichloropropene	LCS	29.2	97	(80-122)		30 ug/L	10/13/2009
1,1,2-Trichloroethane	LCS	29.1	97	(77-120)		30 ug/L	10/13/2009
1,3-Dichlorobenzene	LCS	29.5	98	(80-120)		30 ug/L	10/13/2009
1,2,3-Trichlorobenzene	LCS	31.6	105	(77-120)		30 ug/L	10/13/2009

Surrogates

1,2-Dichloroethane-D4 <surr>	LCS		88	(73-120)			10/13/2009
Toluene-d8 <surr>	LCS		100	(80-120)			10/13/2009



SGS Ref.# 931620 Lab Control Sample

Printed Date/Time 10/22/2009 15:38

Client Name Hoefler Consulting Group

Prep Batch VXX20106

Project Name/# ML&P, Ops & Dispatch

Method SW5030B

Matrix Water (Surface, Eff., Ground)

Date 10/12/2009

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

4-Bromofluorobenzene <surr>	LCS	89	(76-120)				10/13/2009
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Batch VMS10922

Method SW8260B

Instrument HP 5890 Series II MS3 VNA



SGS Ref.# 931965 Lab Control Sample

Printed Date/Time 10/22/2009 15:38
Prep Batch VXX20116
Method SW5030B
Date 10/14/2009

Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:
1095500002, 1095500004

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

cis-1,2-Dichloroethene	LCS	28.7	96	(80-125)		30 ug/L	10/14/2009
Tetrachloroethene	LCS	28.9	96	(79-122)		30 ug/L	10/14/2009
Bromomethane	LCS	28.8	96	(30-140)		30 ug/L	10/14/2009
Trichloroethene	LCS	34.6	115	(80-125)		30 ug/L	10/14/2009
2,2-Dichloropropane	LCS	27.4	91	(80-132)		30 ug/L	10/14/2009

Surrogates

1,2-Dichloroethane-D4 <surr>	LCS		99	(73-120)			10/14/2009
Toluene-d8 <surr>	LCS		99	(80-120)			10/14/2009
4-Bromofluorobenzene <surr>	LCS		98	(76-120)			10/14/2009

Batch VMS10929
Method SW8260B
Instrument HP 5890 Series II MS1 VJA



SGS Ref.# 932231 Lab Control Sample
 932232 Lab Control Sample Duplicate
Client Name Hoefler Consulting Group
Project Name/# ML&P, Ops & Dispatch
Matrix Water (Surface, Eff., Ground)

Printed Date/Time 10/22/2009 15:38
Prep Batch XXX21837
Method SW3520C
Date 10/16/2009

QC results affect the following production samples:
 1095500001, 1095500002, 1095500003, 1095500004

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Semivolatile Organic Fuels Department

Diesel Range Organics	LCS	3.81	76	(75-125)	6	(< 20)	5 mg/L	10/19/2009
	LCSD	4.07	81				5 mg/L	10/19/2009

Surrogates

5a Androstane <surr>	LCS		80	(60-120)	6		10/19/2009
	LCSD		85			10/19/2009	

Batch XFC8973
Method AK102
Instrument HP 6890 Series II FID SV D R

Residual Range Organics	LCS	3.42	68	(60-120)	5	(< 20)	5 mg/L	10/19/2009
	LCSD	3.60	72				5 mg/L	10/19/2009

Surrogates

n-Triacontane-d62 <surr>	LCS		78	(60-120)	6		10/19/2009
	LCSD		83			10/19/2009	

Batch XFC8973
Method AK103
Instrument HP 6890 Series II FID SV D R



SGS Ref.# 931668 Matrix Spike
 931669 Matrix Spike Duplicate

Printed Date/Time 10/22/2009 15:38
 Prep Batch VXX20106
 Method Volatiles Extraction 8240/8260
 Date 10/12/2009

Original 931667
 Matrix Water (Surface, Eff., Ground)

QC results affect the following production samples:
 1095500002, 1095500004

Parameter	Qualifiers	Original Result	QC Result	Pet Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
Benzene	MS	ND	32.1	107	(80-120)			30.0	ug/L 10/13/2009
	MSD		31.0	103		3	(< 20)	30.0	ug/L 10/13/2009
Toluene	MS	ND	29.9	100	(77-120)			30.0	ug/L 10/13/2009
	MSD		29.6	99		1	(< 20)	30.0	ug/L 10/13/2009
Ethylbenzene	MS	ND	31.7	106	(80-120)			30.0	ug/L 10/13/2009
	MSD		31.1	104		2	(< 20)	30.0	ug/L 10/13/2009
n-Butylbenzene	MS	ND	28.9	96	(80-124)			30.0	ug/L 10/13/2009
	MSD		28.8	96		0	(< 20)	30.0	ug/L 10/13/2009
Carbon disulfide	MS	ND	40.7	91	(72-123)			45.0	ug/L 10/13/2009
	MSD		39.9	89		2	(< 20)	45.0	ug/L 10/13/2009
1,4-Dichlorobenzene	MS	ND	30	100	(80-120)			30.0	ug/L 10/13/2009
	MSD		29.8	99		1	(< 20)	30.0	ug/L 10/13/2009
1,2-Dichloroethane	MS	ND	29	97	(80-129)			30.0	ug/L 10/13/2009
	MSD		28.4	95		2	(< 20)	30.0	ug/L 10/13/2009
1,3,5-Trimethylbenzene	MS	ND	28.5	95	(80-128)			30.0	ug/L 10/13/2009
	MSD		28.0	93		2	(< 20)	30.0	ug/L 10/13/2009
4-Chlorotoluene	MS	ND	27.6	92	(79-128)			30.0	ug/L 10/13/2009
	MSD		27.4	91		1	(< 20)	30.0	ug/L 10/13/2009
Chlorobenzene	MS	ND	31.3	104	(80-120)			30.0	ug/L 10/13/2009
	MSD		31.4	105		0	(< 20)	30.0	ug/L 10/13/2009
4-Methyl-2-pentanone (MIBK)	MS	ND	102	114	(69-134)			90.0	ug/L 10/13/2009
	MSD		97.5	108		5	(< 20)	90.0	ug/L 10/13/2009
cis-1,2-Dichloroethene	MS	ND	29.3	98	(80-125)			30.0	ug/L 10/14/2009
	MSD		28.5	95		3	(< 20)	30.0	ug/L 10/14/2009
4-Isopropyltoluene	MS	ND	29.4	98	(80-125)			30.0	ug/L 10/13/2009
	MSD		29.2	97		1	(< 20)	30.0	ug/L 10/13/2009
cis-1,3-Dichloropropene	MS	ND	30.6	102	(80-120)			30.0	ug/L 10/13/2009
	MSD		30.5	102		0	(< 20)	30.0	ug/L 10/13/2009
n-Propylbenzene	MS	ND	27.9	93	(80-129)			30.0	ug/L 10/13/2009
	MSD		27.8	93		0	(< 20)	30.0	ug/L 10/13/2009
Styrene	MS	ND	32.4	108	(80-120)			30.0	ug/L 10/13/2009
	MSD		32.4	108		0	(< 20)	30.0	ug/L 10/13/2009
Dibromomethane	MS	ND	33.6	112	(80-120)			30.0	ug/L 10/13/2009
	MSD		32.7	109		3	(< 20)	30.0	ug/L 10/13/2009
trans-1,3-Dichloropropene	MS	ND	29.1	97	(80-124)			30.0	ug/L 10/13/2009
	MSD		28.4	95		2	(< 20)	30.0	ug/L 10/13/2009
1,2,4-Trichlorobenzene	MS	ND	31.6	105	(80-120)			30.0	ug/L 10/13/2009



SGS Ref.# 931668 Matrix Spike **Printed Date/Time** 10/22/2009 15:38
 931669 Matrix Spike Duplicate **Prep Batch** VXX20106
Method Volatiles Extraction 8240/8260
Date 10/12/2009
Original 931667
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
		MSD	32.0	107		1	(< 20)	30.0	ug/L 10/13/2009
1,1,2,2-Tetrachloroethane		MS ND	29.6	99	(76-123)			30.0	ug/L 10/13/2009
		MSD	28.5	95		4	(< 20)	30.0	ug/L 10/13/2009
1,2-Dibromo-3-chloropropane		MS ND	27.1	90	(73-130)			30.0	ug/L 10/13/2009
		MSD	25.8	86		5	(< 20)	30.0	ug/L 10/13/2009
Methyl-t-butyl ether		MS ND	44.2	98	(80-120)			45.0	ug/L 10/13/2009
		MSD	42.8	95		3	(< 20)	45.0	ug/L 10/13/2009
Tetrachloroethene		MS ND	30	100	(79-122)			30.0	ug/L 10/14/2009
		MSD	29.6	99		1	(< 20)	30.0	ug/L 10/14/2009
Dibromochloromethane		MS ND	32.1	107	(80-120)			30.0	ug/L 10/13/2009
		MSD	31.6	105		1	(< 20)	30.0	ug/L 10/13/2009
1,3-Dichloropropane		MS ND	31.5	105	(80-121)			30.0	ug/L 10/13/2009
		MSD	31.5	105		0	(< 20)	30.0	ug/L 10/13/2009
1,2-Dibromoethane		MS ND	32.5	108	(80-120)			30.0	ug/L 10/13/2009
		MSD	32.4	108		0	(< 20)	30.0	ug/L 10/13/2009
Carbon tetrachloride		MS ND	27.8	93	(80-126)			30.0	ug/L 10/13/2009
		MSD	26.8	89		4	(< 20)	30.0	ug/L 10/13/2009
1,1,1,2-Tetrachloroethane		MS ND	31.5	105	(80-120)			30.0	ug/L 10/13/2009
		MSD	32.3	108		2	(< 20)	30.0	ug/L 10/13/2009
Chloroform		MS ND	28	93	(80-124)			30.0	ug/L 10/13/2009
		MSD	27.6	92		2	(< 20)	30.0	ug/L 10/13/2009
Bromobenzene		MS ND	30	100	(80-120)			30.0	ug/L 10/13/2009
		MSD	30.1	100		0	(< 20)	30.0	ug/L 10/13/2009
Chloromethane		MS ND	29.4	98	(67-125)			30.0	ug/L 10/13/2009
		MSD	28.4	95		4	(< 20)	30.0	ug/L 10/13/2009
1,2,3-Trichloropropane		MS ND	28.1	94	(80-120)			30.0	ug/L 10/13/2009
		MSD	26.7	89		5	(< 20)	30.0	ug/L 10/13/2009
Bromomethane		MS ND	28.8	96	(30-140)			30.0	ug/L 10/14/2009
		MSD	27.2	91		6	(< 20)	30.0	ug/L 10/14/2009
Bromochloromethane		MS ND	31.9	106	(77-129)			30.0	ug/L 10/13/2009
		MSD	26.0	87		20 *	(< 20)	30.0	ug/L 10/13/2009
Vinyl chloride		MS ND	29.2	97	(72-145)			30.0	ug/L 10/13/2009
		MSD	28.4	95		3	(< 20)	30.0	ug/L 10/13/2009
Dichlorodifluoromethane		MS ND	26.2	88	(62-153)			30.0	ug/L 10/13/2009
		MSD	25.3	84		4	(< 20)	30.0	ug/L 10/13/2009
Chloroethane		MS ND	35.2	117	(67-133)			30.0	ug/L 10/13/2009
		MSD	35.7	119		2	(< 20)	30.0	ug/L 10/13/2009
sec-Butylbenzene		MS ND	29	97	(80-120)			30.0	ug/L 10/13/2009
		MSD	28.7	96		1	(< 20)	30.0	ug/L 10/13/2009
Bromodichloromethane		MS ND	34.9	116	(80-120)			30.0	ug/L 10/13/2009



SGS Ref.# 931668 Matrix Spike **Printed Date/Time** 10/22/2009 15:38
 931669 Matrix Spike Duplicate **Prep Batch** VXX20106
Method Volatiles Extraction 8240/8260
Date 10/12/2009

Original 931667
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
Volatile Gas Chromatography/Mass Spectroscopy									
		MSD	34.0	113		3	(< 20)	30.0	ug/L 10/13/2009
1,1-Dichloroethene		MS ND	29.9	100	(76-130)			30.0	ug/L 10/13/2009
		MSD	29.0	97		3	(< 20)	30.0	ug/L 10/13/2009
2-Butanone (MEK)		MS ND	91	101	(66-136)			90.0	ug/L 10/13/2009
		MSD	88.6	98		3	(< 20)	90.0	ug/L 10/13/2009
Methylene chloride		MS ND	26.7	89	(63-131)			30.0	ug/L 10/13/2009
		MSD	26.2	87		2	(< 20)	30.0	ug/L 10/13/2009
Trichlorofluoromethane		MS ND	28.7	96	(68-145)			30.0	ug/L 10/13/2009
		MSD	28.0	93		3	(< 20)	30.0	ug/L 10/13/2009
P & M -Xylene		MS ND	63.5	106	(80-120)			60.0	ug/L 10/13/2009
		MSD	63.1	105		1	(< 20)	60.0	ug/L 10/13/2009
Naphthalene		MS ND	30	100	(75-120)			30.0	ug/L 10/13/2009
		MSD	29.2	98		3	(< 20)	30.0	ug/L 10/13/2009
o-Xylene		MS ND	31.3	104	(80-120)			30.0	ug/L 10/13/2009
		MSD	31.1	104		1	(< 20)	30.0	ug/L 10/13/2009
Bromoform		MS ND	33.7	112	(80-120)			30.0	ug/L 10/13/2009
		MSD	33.6	112		0	(< 20)	30.0	ug/L 10/13/2009
1,2,4-Trimethylbenzene		MS ND	28.3	94	(80-125)			30.0	ug/L 10/13/2009
		MSD	28.4	95		0	(< 20)	30.0	ug/L 10/13/2009
tert-Butylbenzene		MS ND	29	97	(80-122)			30.0	ug/L 10/13/2009
		MSD	29.2	97		1	(< 20)	30.0	ug/L 10/13/2009
1,1,1-Trichloroethane		MS ND	34	113	(80-122)			30.0	ug/L 10/13/2009
		MSD	33.4	111		2	(< 20)	30.0	ug/L 10/13/2009
1,1-Dichloroethane		MS ND	27.9	93	(80-120)			30.0	ug/L 10/13/2009
		MSD	27.4	91		2	(< 20)	30.0	ug/L 10/13/2009
2-Chlorotoluene		MS ND	27.9	93	(80-125)			30.0	ug/L 10/13/2009
		MSD	27.8	93		0	(< 20)	30.0	ug/L 10/13/2009
Trichloroethene		MS 0.850 J	35	114	(80-125)			30.0	ug/L 10/14/2009
		MSD	33.4	108		5	(< 20)	30.0	ug/L 10/14/2009
trans-1,2-Dichloroethene		MS ND	30.2	101	(79-132)			30.0	ug/L 10/13/2009
		MSD	29.5	98		2	(< 20)	30.0	ug/L 10/13/2009
1,2-Dichlorobenzene		MS ND	29.7	99	(80-120)			30.0	ug/L 10/13/2009
		MSD	29.0	97		2	(< 20)	30.0	ug/L 10/13/2009
2,2-Dichloropropane		MS ND	28.7	96	(80-132)			30.0	ug/L 10/14/2009
		MSD	27.0	90		6	(< 20)	30.0	ug/L 10/14/2009
Hexachlorobutadiene		MS ND	29.5	98	(77-125)			30.0	ug/L 10/13/2009
		MSD	29.5	98		0	(< 20)	30.0	ug/L 10/13/2009
Isopropylbenzene (Cumene)		MS ND	31.8	106	(80-121)			30.0	ug/L 10/13/2009
		MSD	31.1	104		2	(< 20)	30.0	ug/L 10/13/2009
2-Hexanone	51 of 55	MS ND	90.4	100	(68-130)			90.0	ug/L 10/13/2009



SGS Ref.# 931668 Matrix Spike **Printed Date/Time** 10/22/2009 15:38
 931669 Matrix Spike Duplicate **Prep Batch** VXX20106
Method Volatiles Extraction 8240/8260
Date 10/12/2009

Original 931667
Matrix Water (Surface, Eff., Ground)

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

1,2-Dichloropropane	MSD		85.6	95		6	(< 20)	90.0	ug/L 10/13/2009
	MS	ND	32.5	108	(80-121)			30.0	ug/L 10/13/2009
	MSD		31.9	106		2	(< 20)	30.0	ug/L 10/13/2009
1,1-Dichloropropene	MS	ND	32.9	110	(80-122)			30.0	ug/L 10/13/2009
	MSD		32.8	109		0	(< 20)	30.0	ug/L 10/13/2009
1,1,2-Trichloroethane	MS	ND	30.7	102	(77-120)			30.0	ug/L 10/13/2009
	MSD		30.5	102		1	(< 20)	30.0	ug/L 10/13/2009
1,3-Dichlorobenzene	MS	ND	30.1	100	(80-120)			30.0	ug/L 10/13/2009
	MSD		29.6	99		2	(< 20)	30.0	ug/L 10/13/2009
1,2,3-Trichlorobenzene	MS	ND	31.7	106	(77-120)			30.0	ug/L 10/13/2009
	MSD		30.9	103		3	(< 20)	30.0	ug/L 10/13/2009

Surrogates

1,2-Dichloroethane-D4 <surr>	MS		29.4	98	(73-120)				10/13/2009
	MSD		28.6	95		3			10/13/2009
Toluene-d8 <surr>	MS		30.2	101	(80-120)				10/13/2009
	MSD		30.3	101		1			10/13/2009
4-Bromofluorobenzene <surr>	MS		27	90	(76-120)				10/13/2009
	MSD		27.5	92		2			10/13/2009

Batch VMS10922
Method SW8260B
Instrument HP 5890 Series II MS3 VNA



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53 of 55

1 CLIENT: **HCG**

CONTACT: **Wendy Mitchell** PHONE NO: **907-503-2196**

PROJECT: **MLP Ops - Dispatch** SITE/IPWSID#: _____

REPORTS TO: **Wendy Mitchell** EMAIL: **wmitchelle@hachert.com**

INVOICE TO: **3401 Minnesota Dr. Ste 302** QUOTE #: _____

2 **Anchorage, AK 99503** P.O. #: **4904-017-1100**

SGS Reference #: _____ page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX/MATRIX CODE	# CONTAINERS	SAMPLE TYPE C= C- G= G- GRAB MI= Multi Incremental Samples	Preservatives Used		REMARKS/ LOC ID
							Analysis Required	Required	
01A-D	B1-148849	10/8/09	1100	W	4	G	X	X	PCBs 8082
02A-G	B2-148849	↓	1215	W	7	↓	X	X	Childred VOCs 8260
03A-D	2A1-148849	↓	1520	W	4	↓	X	X	102/103
04A-G	B92-148849	↓	1215	W	7	↓	X	X	PROKRO
05A-C/TB		↓	1100	W			X	X	

4

5

Collected/Relinquished By: (1) **Stephanie Heizer** Date: **10/9/09** Time: **1100** Received By: _____

Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____

Relinquished By: (4) _____ Date: **10/9/09** Time: **1110** Received For Laboratory By: **[Signature]**

DOD Project? YES NO

Cooler ID: _____

Cooler Temp °C: _____

Special Deliverable Requirements: **Level II; DataView**

Requested Turnaround Time and/or Special Instructions: **Std.**

Chain of Custody Seal: (Circle) **INTAC** BROKEN ABSENT

Therm # **704**

Temperature Blank # **136**

°C: **72.8**

or Ambient

SAMPLE RECEIPT FORM

SGS WO#:



Yes No NA

- Are samples RUSH, priority or w/in 72 hrs of hold time?
If yes, have you done e-mail ALERT notification?
Are samples within 24 hrs. of hold time or due date?
If yes, have you also spoken with supervisor?
Archiving bottles: Are lids marked w/ red "X"?
Were samples collected with proper preservative?
Any problems (ID, cond'n, HT, etc)? Explain:

TAT (circle one): Standard -or- Rush

Received Date:

Received Time:

Table with columns: Cooler ID, Temperature, Measured w/ (Therm #). Contains handwritten entries for cooler IDs 1 and 2, and temperatures 3.6 and 1.8 degrees Celsius.

Note: Temperature readings include thermometer correction factors

Delivery method (circle all that apply):

- Client / Alert Courier / Lynden / SGS
UPS / FedEx / USPS / DHL / Carlile
AkAir Goldstreak / NAC / ERA / PenAir
Other:

Additional Sample Remarks: (✓ if applicable)

- Extra Sample Volume?
Limited Sample Volume?
Multi-Incremental Samples?
Lab-filtered for dissolved
Ref Lab required for
Foreign Soil?

This section must be filled out for DoD projects (USACE, Navy, AFCEE):

- Is received temperature <= 6°C?
Were containers ice-free?
Was there an airbill?
Was cooler sealed with custody seals & were they intact?
Was there a COC with cooler?
Was COC sealed in plastic bag & taped inside lid of cooler?
Was the COC filled out properly?
Did the COC indicate USACE / Navy / AFCEE project?
Samples were packed to prevent breakage with (circle one):
Were all samples sealed in separate plastic bags?
Were all VOCs free of headspace and/or MeOH preserved?
Were correct container / sample sizes submitted?
Was the PM notified of arrival so they can send Sample Receipt Acknowledgement to client?

This section must be completed if problems are noted.

- Was client notified of problems? Yes / No
By (SGS PM):
Individual contacted:
Via: Phone / Fax / E-mail (circle one)
Date/Time:
Reason for contact:
Change Order Required? Yes / No

Notes:

Completed by (sign): [Signature] (print): Joe [Signature]

Login proof: Self-check completed JSR Peer-reviewer's Initials [Signature]

