

BGES, INC.

ENVIRONMENTAL CONSULTANTS

**FORMER CUSTOM TRUCK
(CURRENTLY SIX ROBBLEE'S)
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA**

GROUNDWATER MONITORING REPORT (JUNE 2016)

FEBRUARY 2017

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ACRONYMS

AAC	-	Alaska Administrative Code
ADEC	-	Alaska Department of Environmental Conservation
AK	-	Alaska Method
BGES	-	Braunstein Geological and Environmental Services
BTEX	-	Benzene, Toluene, Ethylbenzene, and Total Xylenes
C	-	Celsius
CSM	-	Conceptual Site Model
DRO	-	Diesel Range Organics
EPA	-	Environmental Protection Agency
GeoTek	-	GeoTek Alaska, Inc.
GRO	-	Gasoline Range Organics
HCL	-	Hydrochloric Acid
J	-	Estimated Value
LCSD	-	Laboratory Control Spike Duplicate
LOQ	-	Limit of Quantitation
ml/min	-	Milliliters Per Minute
MRL	-	Method Reporting Limit
PAHs	-	Polynuclear Aromatic Hydrocarbons
QC	-	Quality Control
QEP	-	Qualified Environmental Professional
RPD	-	Relative Percent Difference
RRO	-	Residual Range Organics
SGS	-	SGS North America, Inc.
Six Robblee's	-	Six Robblee's, Inc.
UST	-	Underground Storage Tank
VOCs	-	Volatile Organic Compounds

1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by Andy Robblee of Six Robblee's, Inc. (Six Robblee's) to conduct groundwater sampling at the Six Robblee's property located at 4748 Old Seward Highway, Anchorage, Alaska; hereafter referred to as the subject property (Figure 1). The purpose of this groundwater monitoring event was to assess the groundwater quality at this site. The fieldwork for this round of sampling (the tenth round of groundwater sampling performed by BGES) was performed on June 27 and 28, 2016 in accordance with the work plan prepared by BGES (dated June 14, 2016). The Alaska Department of Environmental Conservation (ADEC) changed the site status from "cleanup-complete with institutional controls" to "Active" in correspondence dated August 14, 2013. The ADEC Hazard Identification Number is 23658 and the ADEC File Number is 2100.26.252 for the subject property.

2.0 BACKGROUND

The property is located in the central portion of Anchorage, Alaska (Figure 1). The property had previously operated for many years as an automotive dealership that had on-site underground storage tanks (USTs) for fuel needs. Fuel is no longer dispensed at the site, and the tanks were removed in 1994. A one-story building that is operated as an automotive shop and accessory retail store is located on the property. The area west of the building is used for bulk storage of truck tops and auto accessories.

Numerous previous assessments have been performed by various environmental consulting firms at the site, including a 2004 Site Closure Report performed by Chemtrack. On June 14, 2004 the ADEC issued a "No Further Remedial Action Planned" status for this site. In addition, a "Record of Decision" was also issued for the site on the same date. In these documents, it was stated that quarterly groundwater monitoring in accordance with an approved work plan must be instituted.

BGES was contracted in 2005 to review the previous work plan and to resume groundwater sampling activities in accordance with the No Further Remedial Action Planned and Institutional Control Record of Decision documentation. The results of the previous groundwater sampling event, completed in June and July of 2015, were presented in the November 2015 Groundwater Monitoring Report.

3.0 PREVIOUS SITE WORK

Two 5,000-gallon UST's, reportedly containing gasoline, were removed from the ground in 1994. Hydrocarbon contamination was observed in soils near the USTs and associated piping. In addition to

removing the USTs, the excavation reportedly was continued to remove additional contaminated soil. Approximately 280 cubic yards of soil were reportedly removed from the site and treated at an off-site facility. Elevated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in remaining soils.

Groundwater sampling was first performed by BGES in June of 2005. Monitoring Wells that were sampled during this sampling event included; MW-1, MW-2, MW-5, MW-8, MW-11, MW-12, B6/VE, and the Tap Well (facility well). The results indicated contaminant concentrations exceeding the following ADEC cleanup criteria: gasoline range organics (GRO) in Monitoring Wells MW-1, MW-2, MW-8, and B6/VE; diesel range organics (DRO) in MW-1, MW-2, and B6/VE; benzene in MW-1, MW-2, MW-5, MW-8, MW-12, and B6/VE; toluene in MW-1, MW-2, and B6/VE; ethylbenzene in MW-1, MW-2, and B6/VE; and, total xylenes in MW-2. The water sample collected from the Tap Well (facility well) did not exhibit any analyte concentrations above the laboratory's method reporting limit (MRL) and the ADEC cleanup criteria.

Groundwater sampling was performed again by BGES in August of 2005. Monitoring wells that were sampled during this sampling event included MW-1, MW-2, MW-3, MW-5, B6/VE, MW-8, MW-9, MW-10, MW-11, MW-12, and MW-15. The results indicated contaminant concentrations exceeding the following ADEC cleanup criteria: GRO in MW-1, MW-2, MW-5, MW-8, MW-15, and B6/VE; DRO in MW-1, MW-2, MW-5, MW-11, MW-15, and B6/VE; residual range organics (RRO) in MW-1, MW-2, MW-5, B6/VE, MW-9, MW-11, MW-12, and MW-15; benzene in MW-1, MW-2, MW-5, B6/VE, MW-8, MW-11, MW-12, and MW-15.; toluene in MW-1, MW-2, MW-15, and B6/VE; ethylbenzene in MW-1, MW-2, MW-15, and B6/VE; and, total xylenes in MW-2 and MW-15.

Groundwater sampling was performed by BGES in March of 2006. Monitoring Wells that were sampled during this sampling event included MW-1, MW-2, B6/VE, MW-11, and MW-12. Water samples were analyzed for GRO, DRO, RRO, and BTEX. The results from the March 2006 sampling event indicated that GRO, DRO, RRO, and BTEX concentrations exceeded the ADEC cleanup criteria in Monitoring Wells MW-1, MW-2, and B6/VE (except for total xylenes in B6/VE). Benzene concentrations exceeded the ADEC cleanup criterion in Monitoring Wells MW-11 and MW-12. Additionally, the RRO concentration in Water Sample MW12 exceeded the ADEC cleanup criterion.

Groundwater sampling was performed by BGES in September of 2006. Wells that were sampled during this sampling event included MW-1, MW-2, B6/VE, MW-5, MW-8, MW-11, MW-12, and the facility well. Water samples were analyzed for GRO, DRO, RRO, and BTEX. The results from the September

2006 sampling event indicated that GRO, DRO, and RRO concentrations exceeded the ADEC cleanup criteria in Monitoring Wells MW-1, MW-2, and B6/VE. Benzene concentrations exceeded the ADEC cleanup criterion in each of the wells sampled, including the facility well. Concentrations of toluene and ethylbenzene exceeded the ADEC cleanup criteria in MW-1 and MW-2. Additionally, the toluene concentration in Water Sample B6/VE exceeded the ADEC cleanup criterion.

Groundwater sampling was performed by BGES in October of 2007. During that round of groundwater sampling, Monitoring Wells MW-1, MW-2, MW-3, MW-5, MW-8, MW-9, MW-10, MW-11, MW-12, MW-15, and B6/VE were sampled and analyzed for GRO, DRO, RRO, and BTEX. Additionally, Monitoring Wells MW-2 and MW-102 (duplicate of MW-2) were analyzed for polynuclear aromatic hydrocarbons (PAHs) and volatile organic compounds (VOCs). The results from the October 2007 sampling event indicated that GRO, DRO, RRO, benzene, toluene and ethylbenzene concentrations exceeded the ADEC cleanup criteria in MW-1, MW-2, and B6/VE (except for the RRO concentration in B6/VE). Benzene concentrations exceeded the ADEC cleanup criterion in every well sampled, except for Monitoring Wells MW-3, MW-9, and MW-10. Monitoring Well MW-8 exhibited a GRO concentration that exceeded the ADEC cleanup criterion in addition to the benzene exceedance described above. Monitoring Well MW-15 contained GRO, DRO, benzene, toluene, and ethylbenzene concentrations above the applicable ADEC cleanup criteria. None of the samples analyzed contained xylenes concentrations that exceeded the ADEC cleanup criterion. Two off-site, downgradient wells (MW-11 and MW-12) were tested and exhibited levels of contaminants that exceeded ADEC cleanup criteria.

Groundwater sampling was performed by BGES in August and September of 2012. Wells that were sampled during that sampling event included MW-1, MW-2, MW-3, MW-5, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-15, and B6/VE, and were analyzed for GRO, BTEX, DRO, and RRO. In addition, a water sample was collected from the facility well and labeled "Facility Well", and was analyzed for VOCs. The results from the August and September 2012 sampling events indicated that the water samples collected from Monitoring Wells MW-1 and MW-17 (duplicate of MW-1) exhibited concentrations of GRO, benzene, toluene, ethylbenzene, DRO, and RRO, which exceeded their respective ADEC cleanup criteria. The water samples collected from Monitoring Wells MW-2, MW-13, and MW-14 exhibited concentrations of GRO, BTEX, DRO, and RRO, which exceeded their respective ADEC cleanup criteria. Water Samples MW-8 and MW-15 exhibited concentrations of benzene, which exceeded the ADEC cleanup criterion. In addition, Water Sample B6/VE exhibited concentrations of GRO, benzene, toluene, DRO, and RRO, which exceeded ADEC cleanup criteria.

Prior to the 2013 monitoring round, a building survey and some preliminary soil gas sampling, in addition to groundwater sampling, was performed by BGES in May and June of 2013. Sub-slab soil gas samples collected from beneath the concrete slab in the southeastern portion of the building did not exhibit any analyte concentrations above the ADEC target levels for shallow soil gas. The groundwater samples collected from Monitoring Wells MW-2, MW-14, MW-13, and MW-20 exhibited concentrations of GRO, BTEX, DRO, and RRO that exceeded the respective ADEC cleanup criteria for these contaminants. In addition, Groundwater Samples MW-13 and MW-20 (duplicate of MW-13) exhibited concentrations of 1,2,4-trimethylbenzene and n-propylbenzene that exceeded the respective ADEC cleanup criteria for these contaminants. The groundwater samples collected from Monitoring Wells MW-1 and B6/VE exhibited concentrations of GRO, benzene, toluene, ethylbenzene, DRO, and RRO that exceeded the respective ADEC cleanup criteria for these contaminants. Groundwater Sample MW-15 exhibited concentrations of GRO, benzene, DRO, and RRO that exceeded the respective ADEC cleanup criteria for these contaminants.

Groundwater sampling was performed by BGES in April of 2014. Wells that were sampled included MW-1, MW-2, MW-5, MW-11, MW-12, MW-13, MW-14, MW-15, and B6/VE, and were analyzed for GRO, BTEX, DRO, and RRO. Many of the monitoring wells were in a damaged condition at the time of sampling, and one of the wells (MW-9) was submerged in water and was therefore not sampled during this event. In addition, a water sample was collected from the facility well and labeled "Facility Well", and was analyzed for VOCs. The results from the April 2014 sampling event indicated that each of the wells sampled, with the exception of Monitoring Well MW-11, exhibited concentrations of one or more analytes that exceeded the applicable ADEC cleanup criteria. The samples collected from Monitoring Wells MW-13, MW-14, and MW-16 (duplicate of MW-14) exhibited concentrations of GRO, BTEX, DRO, and RRO; all of which exceeded the respective ADEC cleanup criteria. The samples collected from Monitoring Wells MW-2 and B6/VE exhibited concentrations of GRO, benzene, toluene, ethylbenzene, DRO, and RRO that exceeded their respective ADEC cleanup criteria. The sample collected from Monitoring Well MW-1 exhibited concentrations of GRO, benzene, toluene, ethylbenzene, and DRO that exceeded the respective ADEC cleanup criteria for these analytes. The sample from Monitoring Well MW-5 exhibited a concentration of benzene that exceeded its ADEC cleanup criterion. The sample from Monitoring Well MW-12 exhibited a concentration of RRO that exceeded its ADEC cleanup criterion. The sample from Monitoring Well MW-15 exhibited concentrations of GRO, benzene, DRO, and RRO that exceeded their respective ADEC cleanup criteria.

On November 6, 2014, BGES met at the subject property with GeoTek Alaska, Inc. (GeoTek) of Anchorage, Alaska to repair the damaged monitoring wells. The flush-mounted covers were replaced for Monitoring Well MW-8, MW-9, MW-11, and B6/VE. The well caps were replaced on Monitoring Wells MW-2, MW-3, MW-5, B6/VE, MW-8, MW-10, MW-12, MW-13, MW-14, and MW-15.

In a letter dated December 16, 2014; Joshua Barsis, ADEC Project Manager, agreed to reduce groundwater monitoring activities at the subject property from quarterly to annually.

Groundwater sampling was performed by BGES in June and July, of 2015. Groundwater samples were collected from Monitoring Wells MW-5, MW-8, MW-9, MW-12, and MW-14, and were analyzed for GRO, DRO, RRO, and BTEX. An additional sample was collected from a facility well and was analyzed for VOCs. Each of the wells sampled, with the exception of Monitoring Well MW-9 and the facility well, exhibited concentrations of one or more analytes that exceeded the applicable ADEC cleanup criteria. The samples collected from Monitoring MW-14 and MW-6R (duplicate of MW-14) exhibited concentrations of GRO, BTEX, DRO, and RRO; all of which exceeded the respective ADEC cleanup criteria for these analytes. The samples collected from Monitoring Wells MW-5 and MW-8 exhibited concentrations of benzene that exceeded the ADEC cleanup criterion for this analyte. The sample from Monitoring Well MW-12 exhibited a concentration of RRO that exceeded the ADEC cleanup criterion for this analyte. In addition, BGES decommissioned the sub-slab soil gas sampling point on July 21, 2015.

Annual groundwater monitoring activities that were performed in June of 2016 are the subject of this report, and details and the results of these activities are presented below.

4.0 JUNE 2016 SAMPLING

BGES collected groundwater samples from Monitoring Wells MW-3, MW-5, MW-8, MW-9, MW-12, and MW-14 on June 27 and 28, 2016 (Figure 2) in accordance with our work plan (published June 14, 2016), which was approved by the ADEC on June 15, 2016.

Prior to sample collection, the depths to water and the total depths of each well were measured using an electronic water level indicator that was decontaminated prior to its use in each well by washing it in an Alconox (laboratory-grade detergent) solution, followed by a potable water rinse. The depth to water, the total depth of the wells, and the water quality parameters are presented in Table 1.

Prior to the collection of groundwater samples, the casing volume for each well was calculated. The

wells were purged utilizing a positive displacement bladder pump; a minimum of three casing volumes were removed from each well. During the purging activities, the stabilization parameters (pH, conductivity, oxidation-reduction potential, and temperature) were monitored, utilizing a YSI Professional Pro Multi-Parameter water quality meter. Upon completion of the purging activities, the groundwater samples were collected utilizing a low-flow sampling technique and an approximate flow rate of 150 milliliters per minute (ml/min). Portions of the samples scheduled for volatiles analyses were collected first by filling laboratory-supplied containers that were preserved with hydrochloric acid (HCL). Care was taken during filling of the containers to ensure that no headspace was left within the containers and that none of the preservative was spilled. One duplicate water sample was collected from Monitoring Well MW-14 (labeled MW15) and was submitted “blindly” to the laboratory for analyses.

The sample containers were labeled, placed in a chilled cooler, and transported to SGS North America, Inc. (SGS), an ADEC-approved laboratory for analysis, under chain of custody protocol. As a quality control measure, a trip blank sample accompanied the water samples scheduled for volatile analyses during the entire sampling and handling process.

BGES surveyed the top of casings’ and ground elevations for each of the existing monitoring wells during 2015 sampling activities. Utilizing the surveyed monitoring well elevations and the measured depths to water, the groundwater elevations in each of the monitoring wells were calculated. Then, the calculated groundwater elevations for the subject property were utilized to create a groundwater elevation contour map which suggests that the general groundwater flow direction at the site was to the south-southeast (Figure 3). The calculated hydraulic gradient was 0.0069 foot per linear foot. The depth to water, the total depth of the wells, the water quality parameters, and the calculated water elevations are presented in Table 1.

Investigation-derived waste generated (purge water) was containerized in four 5-gallon buckets. The investigation-derived wastes are currently stored outside in the southwest corner of the facility yard. The 5-gallon buckets were clearly labeled with the contact information and a description of the contents (potentially-contaminated water). Copies of field notes taken during groundwater monitoring activities are included in Appendix A.

5.0 EVALUATION OF LABORATORY DATA

Laboratory analysis of the water samples were performed by SGS, an ADEC-approved laboratory. The analytical results for water samples are listed in Table 2 and a copy of the laboratory data package is

included in Appendix B. The analytical results for water samples were compared to the ADEC Method 2 Cleanup Criteria listed in Alaska Administrative Code (AAC) 75.345—Table C for groundwater as revised on November 6, 2016.

The water samples for MW-3, MW-5, MW-8, MW-9, MW-12, and MW-14 were analyzed at SGS by the following methods: GRO by Alaska Method (AK) 101; DRO by AK 102; RRO by AK 103; and BTEX by Environmental Protection Agency (EPA) Method 8021B. The water sample for the facility well was analyzed for VOCs by EPA method 524.2.

The water samples collected from the subject property were numbered, for example, MW3-0628, where the prefix MW3 indicates the monitoring well from which the water sample was collected; and 0628 indicates the month and day the sample was collected. For brevity in the text and in the associated figures, these samples are referred to as MW-5 with the date omitted. MW15-0628 is a duplicate sample collected from MW-14 and is labeled in the same format as described above. FW-0628 is the sample collected from the facility well and is labeled in the same format as described above.

The samples collected from Monitoring Well MW-14 and MW-15 (duplicate of MW-14) exhibited concentrations of GRO, BTEX, DRO, and RRO; all of which exceeded the respective ADEC cleanup criteria for these analytes. The samples collected from Monitoring Wells MW-3, MW-5, and MW-8 exhibited concentrations of benzene that exceeded the ADEC cleanup criterion for this analyte. The sample from Monitoring Well MW-12 exhibited a concentration of RRO that exceeded the ADEC cleanup criterion for this analyte.

The remaining analytes within the water samples were either detected at concentrations that were below the applicable ADEC cleanup criteria, or were non-detectable above the laboratory limits of quantitation (LOQs). All of the LOQs for the non-detectable analytes were below the applicable ADEC cleanup criteria.

Analytical results for the groundwater samples are presented in Tables 2 and 3, the laboratory analytical data are included in Appendix B, and the sampling locations are shown on Figure 2.

6.0 LABORATORY DATA QUALITY REVIEW

Data quality was reviewed in accordance with ADEC guidance and standard industry practices. An ADEC laboratory data review checklist was completed for the laboratory work order number, and this checklist is included in Appendix C. The checklist provides an overview of the quality of the laboratory

data. The following is a discussion of our evaluation of sample conditions and laboratory procedures for the water samples collected during the June 2016 sampling activities.

SGS Work Order 1163507

The sample containers were labeled, placed in an ice-filled cooler, and hand-delivered by BGES personnel to SGS under chain of custody protocol. The trip blanks accompanied the volatile samples (GRO, BTEX, and VOCs) throughout the entirety of the sampling process and transportation to the laboratory. The samples contained the proper preservatives for the requested analyses, and no unusual sample conditions were noted by the laboratory at the time of their receipt. The case narrative for Work Order Number 1163507 (samples collected during June 2016 sampling activities) noted that there were a few quality control (QC) failures identified by SGS.

The temperature of the sample cooler that contained the water samples was measured at the laboratory at the time of receipt to be 1.1 degrees Celsius (C), which is within the ADEC prescribed optimal range of 0° to 6° C.

The recovery of surrogate 1,4-difluorobenzene associated with the analysis of BTEX within Sample MW8-0627 exceeded the laboratory acceptance limit. This indicates a potential for the reported concentrations of BTEX within this sample to be biased high. For this reason, detectable concentrations of these results are qualified with a “J” in Table 2, and should be considered estimates. However, because benzene was detected at a concentration more than one order of magnitude above the ADEC cleanup criterion, and because the reported concentrations of other detectable analytes within this sample were below the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene within the laboratory control spike duplicate (LCSD) associated with Sample FW-0628, and its associated trip blank, exceeded the laboratory QC acceptance range. This indicates a potential for the reported concentration of these analytes to be biased high in the project sample. However, because none of these analytes were detected above their LOQs, and because the LOQs are below their respective ADEC cleanup criteria; it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

No other issues associated with the data quality were identified with respect to the analyses of the project samples in this work order.

Sample MW-15 was a duplicate of Sample MW-14, and was collected and analyzed in order to facilitate evaluation of field sampling precision. Relative percent differences (RPDs) between the reported concentrations of several analytes for the original and duplicate samples were calculated, and these RPDs ranged between 1 percent and 11 percent, which are all below the recommended acceptance limit of 30 percent. This suggests that good field sampling precision was achieved during the collection of the groundwater samples.

7.0 CONCEPTUAL SITE MODEL

A graphical human health conceptual site model (CSM) was developed for this site and was included in our 2007 Groundwater Sampling Report (dated December 2007). It is our opinion that the CSM is still valid for this site, and as such has not been modified based on the results of this sampling event.

8.0 CONCLUSIONS

A groundwater monitoring event at this site was conducted on June 27 and 28, 2016. Groundwater samples were collected from Monitoring Wells MW-3, MW-5, MW-8, MW-9, MW-12, and MW-14, and were analyzed for GRO, DRO, RRO, and BTEX. An additional sample was collected from a facility well and was analyzed for VOCs. Each of the wells sampled, with the exception of Monitoring Well MW-9 and the facility well, exhibited concentrations of one or more analytes that exceeded the applicable ADEC cleanup criteria. The samples collected from Monitoring Wells MW-14 and MW-15 (duplicate of MW-14) exhibited concentrations of GRO, BTEX, DRO, and RRO; all of which exceeded the respective ADEC cleanup criteria for these analytes. The samples collected from Monitoring Wells MW-3, MW-5, and MW-8 exhibited concentrations of benzene that exceeded the ADEC cleanup criterion for this analyte. The sample from Monitoring Well MW-12 exhibited a concentration of RRO that exceeded the ADEC cleanup criterion for this analyte.

Historical trends demonstrate that some wells show flat trends, some wells show increases, and some show decreases. Historical laboratory analytic results are provided in Table 3, and graphical representations of contaminant concentrations within the wells as measured over time are provided in Appendix D. It is recommended that all purge water be disposed of at an appropriate disposal facility such as NRC Alaska.

9.0 EXCLUSIONS AND CONSIDERATIONS

This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Our conclusions are based solely on our observations made and work conducted and only apply to the immediate vicinities of the locations where samples were collected. In addition, changes to site conditions may have occurred since the completion of our project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

Groundwater sampling for this monitoring event was conducted, and this report was prepared by William Schmaltz; Environmental Scientist with BGES and a Qualified Environmental Professional (QEP) as defined by the ADEC. Mr. Schmaltz has conducted groundwater monitoring, site characterization, and remediation activities at numerous sites in the Anchorage area and throughout Alaska. This report was reviewed by Robert Braunstein, Principal Geologist of BGES, who is a QEP as defined by the ADEC, and has more than 35 years of geological and environmental consulting experience, and has conducted and managed thousands of site characterization and remediation efforts throughout Alaska and the lower 48 states.

Prepared By:

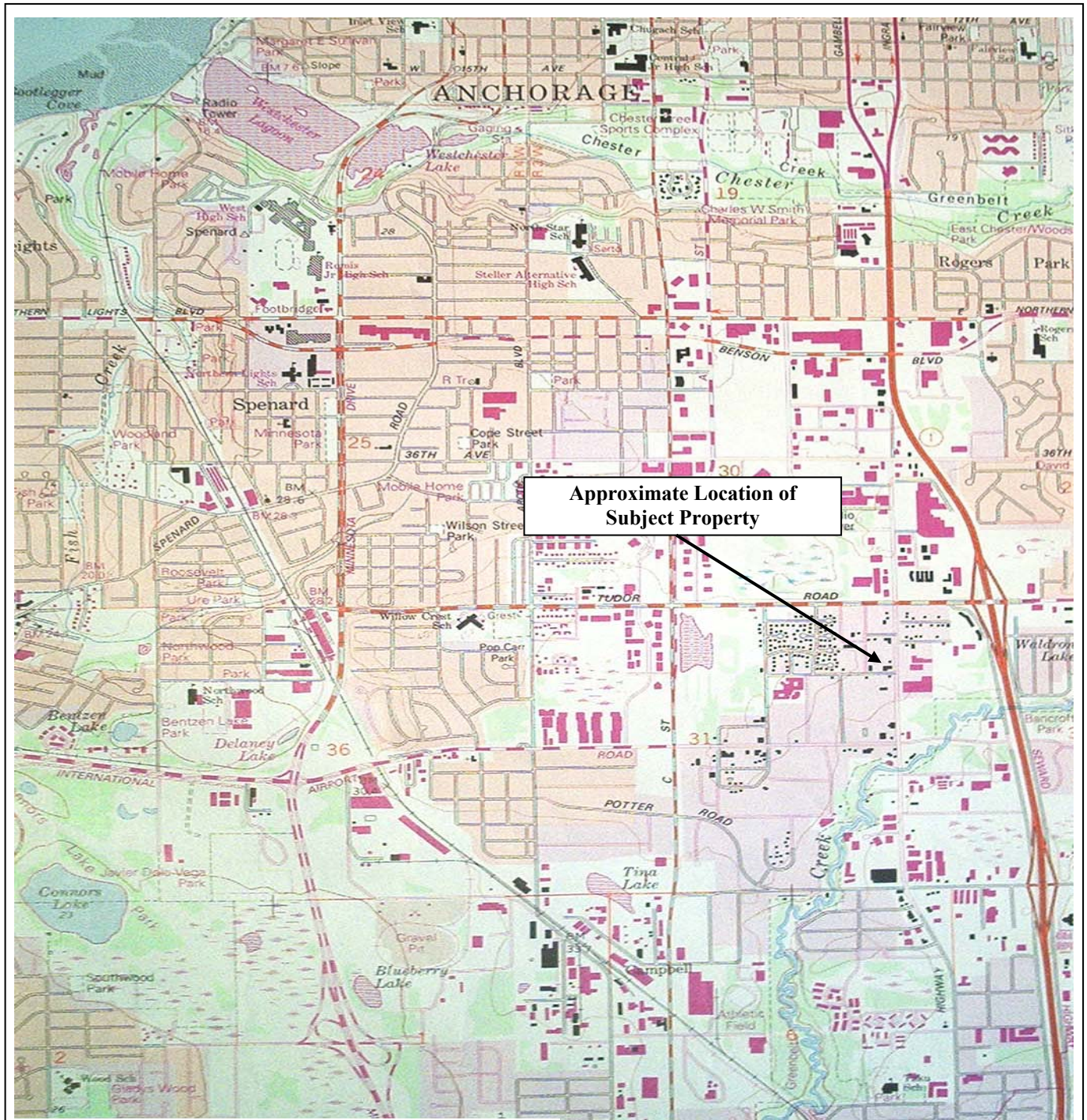


William Schmaltz
Environmental Scientist

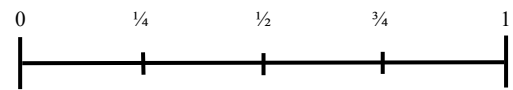
Reviewed By:



Robert N. Braunstein, C.P.G.
Principal Geologist



Source: USGS Map, Anchorage (A-8) NW, Alaska 1979, Revised 1994.



Approximate Scale in Miles



Former Custom Truck (Currently Six Robblee's)
 4748 Old Seward Highway
 Anchorage, Alaska
Property Vicinity Map



February 2017

Figure 1

Continental Motors

East 48th Avenue

6 Robblee's

MW9
No analytes exceeding ADEC cleanup criteria

MW8
Benzene: 0.277 J mg/L

MW14 & Duplicate MW15 (greatest concentrations shown)
GRO: 125 mg/L
DRO: 37.1 mg/L
RRO: 2.75 mg/L
Benzene: 17.100 mg/L
Toluene: 31.500 mg/L
Ethylbenzene: 1.670 mg/L
Total Xylenes: 19.950 mg/L

MW3
Benzene: 0.124 mg/L

MW2
NS

MW13
NS

MW1
NS

MW10
NS

MW15
NS

B6/VE
NS

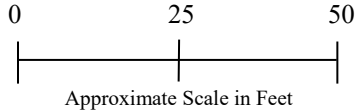
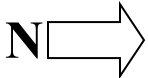
MW5
Benzene: 0.122 mg/L

MW12
RRO: 3.27 mg/L


MW11
NS

Old Seward Highway

Figure adapted from Chemtrack DRO history diagram.

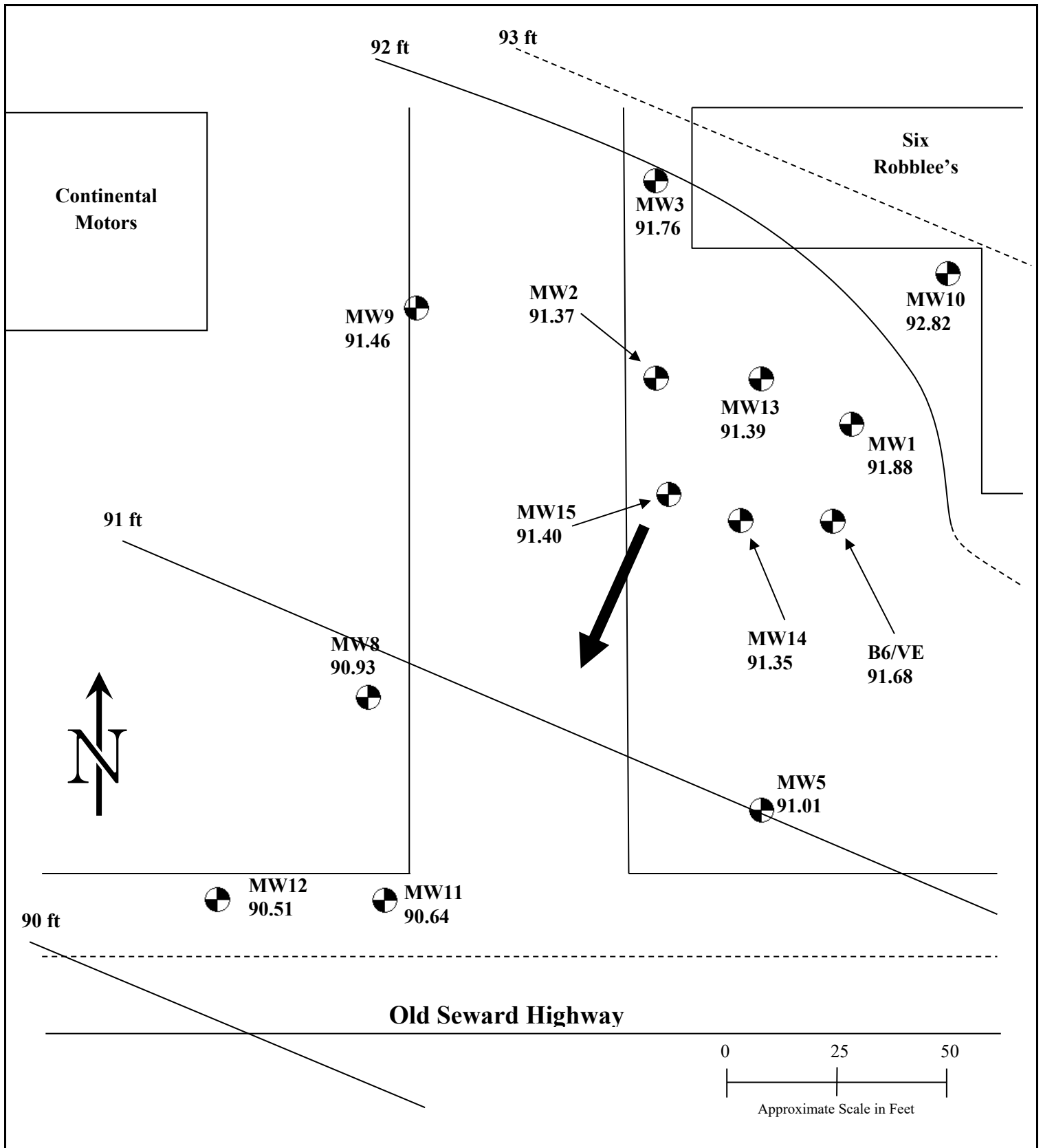


LEGEND




-  = Monitoring Well
- mg/L = milligrams/liter
- NS = Not Sampled
- J = Concentration is an Estimate

Note: Only parameter concentrations exceeding ADEC cleanup criteria are presented.

Former Custom Truck (Currently Six Robblee's)
4748 Old Seward Highway
Anchorage, Alaska
Monitoring Well Locations and Sampling Results (June 2016)



LEGEND

-  = Monitoring Well
-  = Groundwater Elevation Contour, in feet (dashed where inferred)
-  = Groundwater Flow Direction

Notes:

- Water elevations are noted in bold next to each monitoring well number
- The hydraulic gradient is approximately 0.0069 foot per linear foot

Former Custom Truck (Currently Six Robblee's)
 4748 Old Seward Highway
 Anchorage, Alaska
**Groundwater Elevation
 Contour Map (June 2016)**

**TABLE 1
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA
MONITORING WELL SAMPLING DATA (JUNE 2016)**

Well Number	MW1	MW2	MW3	MW5	MW8	MW9	MW10	MW11	MW12	MW13	MW14	MW15	B6/VE
Date Sampled	-	-	6/28/2016	6/27/2016	6/27/2016	6/28/2016	-	-	6/27/2016	-	6/27/2016	-	-
Date of Depth and Elevation Measurement	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016	6/27/2016
Time of Depth to Water Measurement	06:22	06:02	05:50	07:21	07:54	07:45	07:33	08:35	09:01	06:15	06:43	06:51	06:30
Time Sample Collected	-	-	13:42	16:55	14:28	12:03	-	-	11:05	-	18:55	-	-
Top of Casing Elevation (feet)	100.59	97.79	97.65	99.13	97.22	97.50	101.32	96.62	96.03	99.21	99.33	97.78	99.75
Depth to Water (feet below top of casing)	8.71	6.42	5.89	8.12	6.29	6.04	8.50	5.98	5.52	7.82	7.98	6.38	8.07
Water Elevation (feet)	91.88	91.37	91.76	91.01	90.93	91.46	92.82	90.64	90.51	91.39	91.35	91.40	91.68
Total Depth of Well (feet below top of casing)	21.93	13.49	8.61	12.85	13.88	13.33	14.92	13.95	8.28	11.63	12.99	10.40	14.04
Well Casing Diameter (Inches)	2	2	2	2	2	2	2	2	2	2	2	2	4
Standing Water Well Volume (gallons)	2.16	1.15	0.44	0.77	1.24	1.19	1.05	1.30	0.45	0.62	0.82	0.66	3.90
Purge Volume-Actual (gallons)	-	-	1.5	2.5	4	3.6	-	-	1.5	-	2.5	-	-
Temperature (degrees Celsius)	-	-	19.6/17.8/17.5	21.9/16.2/13.1/12.2	12.3/12.6/13.1/12.1/11.6	17.7/17.1/17.0/17.3/17.9/18.8	-	-	15.1/15.2/14.8	-	16.2/13.2/11.1/12.3	-	-
pH (standard units)	-	-	6.72/6.51/6.61	6.53/6.13/6.57/6.53	6.21/6.36/6.55/6.55/6.56	6.33/6.45/6.51/6.59/6.66/6.71	-	-	6.56/6.79/6.80	-	5.99/6.41/6.13/6.01	-	-
Conductivity (microsiemens per centimeter)	-	-	2.3/704.2/621.2	2.8/981/572/1113	2.2/654/521/632/502	8.7/231.2/260.3/310.3/360.6/366.4	-	-	116.5/57.0/57.0	-	199.4/252.2/291.2/342.2	-	-
Oxidation Reduction Potential (millivolts)	-	-	195.7/220.1/310.3	-26.7/-12.3/-70.2/-50.9	23.4/-7.8/-29.2/-2.6/-35.7	137.3/58.6/15.3/-53.6/-110.1/-136.4	-	-	135.5/104.7/80.9	-	90.2/48.5/-1.1/-31.2	-	-
Notes: Values separated by / indicate readings for successive well volumes Sampler: W. Schmaltz Field parameters measured with a YSI Professional Plus Multi-Meter Weather conditions on June 27 and 28, 2016 were clear skies with temperatures ranging from approximately 60 to 70 degrees Fahrenheit.				Rust-colored purge water.	First gallon of purge water rust-colored and then clear.	Slow Recharge.			Dirty, black-colored purge water		A duplicate sample was collected from MW-15 and was labeled. Dirty, rust-colored purge water.		

TABLE 2
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA
ANALYTICAL RESULTS - GROUNDWATER (JUNE 2016)

Water Sample No.	Parameter	Results (mg/L)	LOQ (mg/L)	ADEC Cleanup Criterion (mg/L) ¹	Analytical Method
MW3-0628	GRO	0.551	0.100	2.200	AK 101
	DRO	0.612	0.577	1.500	AK 102
	RRO	ND	0.481	1.100	AK 103
	Benzene	0.124	0.000500	0.0046	SW8021B
	Toluene	0.154	0.00100	1.100	SW8021B
	Ethylbenzene	0.00239	0.00100	0.015	SW8021B
	Total Xylenes	0.0500	0.00300	0.190	SW8021B
MW5-0627	GRO	0.311	0.100	2.200	AK 101
	DRO	ND	0.577	1.500	AK 102
	RRO	0.524	0.481	1.100	AK 103
	Benzene	0.122	0.000500	0.0046	SW8021B
	Toluene	0.00123	0.00100	1.100	SW8021B
	Ethylbenzene	ND	0.001000	0.015	SW8021B
	Total Xylenes	0.00972	0.00300	0.190	SW8021B
MW8-0627	GRO	0.699	0.100	2.200	AK 101
	DRO	ND	0.566	1.500	AK 102
	RRO	ND	0.472	1.100	AK 103
	Benzene	0.277 J	0.005000	0.0046	SW8021B
	Toluene	0.00132 J	0.00100	1.100	SW8021B
	Ethylbenzene	ND	0.00100	0.015	SW8021B
	Total Xylenes	ND	0.00300	0.190	SW8021B
MW9-0628	GRO	ND	0.100	2.200	AK 101
	DRO	ND	0.570	1.500	AK 102
	RRO	0.577	0.475	1.100	AK 103
	Benzene	ND	0.000500	0.0046	SW8021B
	Toluene	ND	0.00100	1.100	SW8021B
	Ethylbenzene	ND	0.00100	0.015	SW8021B
	Total Xylenes	ND	0.00300	0.190	SW8021B
MW12-0627	GRO	ND	0.100	2.200	AK 101
	DRO	1.31	0.568	1.500	AK 102
	RRO	3.27	0.473	1.100	AK 103
	Benzene	0.000660	0.000500	0.0046	SW8021B
	Toluene	ND	0.00100	1.100	SW8021B
	Ethylbenzene	ND	0.00100	0.015	SW8021B
	Total Xylenes	ND	0.00300	0.190	SW8021B

TABLE 2
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA
ANALYTICAL RESULTS - GROUNDWATER (JUNE 2016)

Water Sample No.	Parameter	Results (mg/L)	LOQ (mg/L)	ADEC Cleanup Criterion (mg/L) ¹	Analytical Method
MW14-0627	GRO	121	20.0	2.200	AK 101
	DRO	37.1	0.556	1.500	AK 102
	RRO	2.75	0.463	1.100	AK 103
	Benzene	16.700	0.100	0.0046	SW8021B
	Toluene	30.900	0.200	1.100	SW8021B
	Ethylbenzene	1.650	0.200	0.015	SW8021B
	Total Xylenes	19.76	0.600	0.190	SW8021B
MW15-0627					
Duplicate of MW14-0627					
RPD = 3%	GRO	125	20.0	2.200	AK 101
RPD = 11%	DRO	33.1	0.556	1.500	AK 102
RPD = 9%	RRO	2.52	0.463	1.100	AK 103
RPD = 2%	Benzene	17.100	0.100	0.0046	SW8021B
RPD = 2%	Toluene	31.500	0.200	1.100	SW8021B
RPD = 1%	Ethylbenzene	1.670	0.200	0.015	SW8021B
RPD = 1%	Total Xylenes	19.950	0.600	0.190	SW8021B
FW-0628	Benzene	ND	0.000500	0.0046	EPA 524.2
	Toluene	ND	0.000500	1.100	EPA 524.2
	Ethylbenzene	ND	0.000500	0.015	EPA 524.2
	Total Xylenes	ND	0.000500	0.190	EPA 524.2
	All Other VOCs	ND	varies	varies	EPA 524.2
¹ Water cleanup criteria obtained from ADEC 18 AAC 75.341, Table C, Groundwater Cleanup Levels (November 6, 2016). ADEC = Alaska Department of Environmental Conservation; AAC = Alaska Administrative Code; LOQ = Limit of Quantitation mg/L = milligrams per Liter; ND = Analyte not detected; RPD = Relative Percent Difference; GRO = Gasoline Range Organics DRO = Diesel Range Organics; RRO = Residual Range Organics; VOCs = Volatile Organic Compounds; J = estimated concentration BOLD = concentration exceeds applicable ADEC cleanup criterion.					

TABLE 3
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA

Well No.	Date Collected: Parameter	Jan-95	Jul-95	Mar-96	Dec-96	Nov-99	Aug-00	Nov-00	Jun-02	Nov-02	Jul-03	Jan-04	Jun-05	Aug-05	Mar-06	Sept-06	Oct-07	Sep-12	Jun-13	Apr-14	Jul-15	Jul-16	Analytical Method	ADEC Method Two Groundwater Cleanup Level (mg/L) ¹
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		
MW-01	GRO	97.6	NS	NS	66.9	NS	14.5	NS	48	NS	NS	NS	30.600	53.300	54.400	28.100	50.400	32.4	40.6	29.80	NS	NS	AK101	2.2
	DRO	NS	NS	NS	2.45	NS	NS	NS	17	NS	NS	NS	21.3	37.200	19.3	20.1	28.2	22	29.1	8.38	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.05	2.08	1.87	1.46	1.45	1.32	0.78	NS	NS	AK103	1.1
	Benzene	14.6	NS	NS	11	NS	1.49	NS	4.7	NS	NS	NS	3.140	5.540	7.010	0.109	3.210	2.42	2.720	2.42	NS	NS	SW8021b	0.0046
	Toluene	27.6	NS	NS	16.8	NS	1.68	NS	8.4	NS	NS	NS	6.770	12.300	17.100	8.940	8.930	4.53	6.640	5.31	NS	NS	SW8021b	1.1
	Ethylbenzene	2.79	NS	NS	2.23	NS	0.41	NS	1.1	NS	NS	NS	0.945	1.490	2.420	1.080	1.100	1.16	1.110	1.08	NS	NS	SW8021b	0.015
	Total Xylenes	14.8	NS	NS	11.63	NS	2.15	NS	6.1	NS	NS	NS	5.540	9.380	14.120	7.400	7.800	7.91	8.000	6.15	NS	NS	SW8021b	0.19
MW-02	GRO	156	108	NS	152	NS	58.5	162	89.5	NS	88.400	NS	111.000	107.000	121.000	41.000	37.20	74.1	94.7	64.40	NS	NS	AK101	2.2
	DRO	NS	NS	NS	9.81	NS	NS	NS	16.3	NS	58	NS	56.0	74.300	70.2	70.1	27.30	58.6	105	70.10	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.00	5.63	9.89	1.53	5.5	5.96	6.14	NS	NS	AK103	1.1
	Benzene	32.8	20.7	NS	25.8	NS	5.23	28.5	10.4	NS	10.2	NS	19.800	19.700	19.000	12.300	2.49	7.36	11.300	8.46	NS	NS	SW8021b	0.0046
	Toluene	44	NS	NS	36.7	NS	7.48	28.7	10.6	NS	10.2	NS	26.500	23.100	31.800	20.200	6.68	19.8	22.600	17.50	NS	NS	SW8021b	1.1
	Ethylbenzene	3.4	NS	NS	4.4	NS	1.4	2.5	1.3	NS	10.2	NS	2.190	2.230	2.810	1.670	0.82	1.56	1.760	1.34	NS	NS	SW8021b	0.015
	Total Xylenes	17.5	NS	NS	21.9	NS	9.47	13.45	7.5	NS	10.2	NS	10.550	10.860	14.190	9.500	4.950	10.23	10.120	8.97	NS	NS	SW8021b	0.19
	Naphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.042	NS	NS	NS	NS	8270C	0.0017
	2-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.013	NS	NS	NS	NS	8270C	0.036
	1-Methylnaphthalene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0062	NS	NS	NS	NS	8270C	0.011
	Acenaphthylene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000032	NS	NS	NS	NS	8270C	0.260
	Acenaphthene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000026	NS	NS	NS	NS	8270C	0.53
	Fluorene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000069	NS	NS	NS	NS	8270C	0.29
	Phenanthrene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000051	NS	NS	NS	NS	8270C	0.17
	Anthracene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000097	NS	NS	NS	NS	8270C	0.043
	Fluoranthene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000016	NS	NS	NS	NS	8270C	0.26
	Pyrene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000020	NS	NS	NS	NS	8270C	0.120
	Benz[a]anthracene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.000019	NS	NS	NS	NS	8270C	0.00012
	All other analytes	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	8270C	varies
	MW-03	GRO	Nd	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.090	NS	NS	<0.0500	ND	NS	NS	NS	0.551	AK101
DRO		NS	NS	NS	NS	NS	NS	NS	0.41	NS	NS	NS	NS	0.333	NS	NS	<0.407	ND	NS	NS	NS	0.612	AK102	1.5
RRO		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.764	NS	NS	<0.407	0.556	NS	NS	NS	<0.481	AK103	1.1
Benzene		ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.0005	NS	NS	<0.0005	ND	NS	NS	NS	0.124	SW8021b	0.0046
Toluene		ND	NS	NS	NS	NS	ND	NS	0.0008	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	NS	0.154	SW8021b	1.1
Ethylbenzene		ND	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	NS	0.00239	SW8021b	0.015
Total Xylenes		ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.002	NS	NS	<1.50	ND	NS	NS	NS	0.0500	SW8021b	0.19
MW-05	GRO	0.244	0.287	0.462	0.303	0.7	ND	0.148	NS	NS	NS	NS	0.938	2.200	NS	0.456	0.121	ND	NS	0.207	ND	0.311	AK101	2.2
	DRO	NS	NS	NS	0.39	NS	NS	NS	NS	NS	NS	NS	0.603	1.24	NS	0.700	<0.407	ND	NS	0.757	ND	0.577	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.79	NS	0.865	<0.407	0.974	NS	0.995	ND	0.524	AK103	1.1
	Benzene	0.13	0.18	0.243	0.157	0.272	0.011	0.079	NS	NS	NS	NS	0.467	1.170	NS	0.180	0.0119	0.00113	NS	0.0839	0.0126	0.122	SW8021b	0.0046
	Toluene	ND	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	ND	<0.020	NS	0.00450	0.000861	ND	NS	ND	0.00207	0.00123	SW8021b	1.1
	Ethylbenzene	ND	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	0.00236	<0.020	NS	ND	<0.0005	ND	NS	ND	ND	<0.00100	SW8021b	0.015
Total Xylenes	ND	NS	ND	ND	ND	ND	ND	NS	NS	NS	NS	0.00586	<0.020	NS	0.02128	0.00204	ND	NS	0.0121	0.00416	0.00972	SW8021b	0.19	

GRO = Gasoline Range Organics DRO = Diesel Range Organics NS = Not Sampled ND = Not Detected

mg/L = milligrams per Liter VOCs = Volatile Organic Compounds

BOLD = Value exceeds applicable ADEC cleanup criterion.

¹ Groundwater cleanup criteria are based on 18AAC 75.345 Table C (November 6, 2016).

TABLE 3
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA

Well No.	Date Collected: Parameter	Jan-95	Jul-95	Mar-96	Dec-96	Nov-99	Aug-00	Nov-00	Jun-02	Nov-02	Jul-03	Jan-04	Jun-05	Aug-05	Mar-06	Sept-06	Oct-07	Sep-12	Jun-13	Apr-14	Jul-15	Jul-16	Analytical	ADEC Method Two	
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Method	Groundwater Cleanup Level (mg/L) ¹
B6VE	GRO	20.7	23	13.5	18.6	24	42.1	25.9	15	NS	NS	NS	50.700	57.900	27.400	40.600	54.600	8.290	25.8	22.7	NS	NS	AK101	2.2	
	DRO	NS	NS	NS	2.52	NS	NS	NS	1.6	NS	NS	NS	20.1	20.100	90.0	10.80	15.6	4.690	8.80	5.57	NS	NS	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9.630	1.93	2.01	1.02	1.430	1.21	1.28	NS	NS	AK103	1.1	
	Benzene	1.53	3.11	1.34	2.29	1.75	3.82	2.5	1.69	NS	NS	NS	4.540	7.660	2.020	0.0939	3.880	1.060	2.750	1.730	NS	NS	SW8021b	0.0046	
	Toluene	3.74	NS	2.21	4	3.12	4.48	3.16	1.9	NS	NS	NS	9.980	12.500	5.660	9.450	9.190	1.430	4.310	3.870	NS	NS	SW8021b	1.1	
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	0.231	NS	NS	NS	1.440	1.090	1.070	0.555	1.100	0.122	0.721	0.734	NS	NS	SW8021b	0.015	
	Total Xylenes	3.51	NS	2.2	2.3	2.9	3.36	2.9	1.5	NS	NS	NS	7.220	8.810	5.240	6.730	5.950	1.139	3.660	3.473	NS	NS	SW8021b	0.19	
MW-08	GRO	3.45	3.92	9.89	NS	1.8	1.2	5.3	9.5	NS	0.8	NS	2.070	4.220	NS	0.577	4.280	0.79	NS	NS	ND	0.699	AK101	2.2	
	DRO	NS	NS	NS	NS	NS	NS	NS	14.4	2.06	ND	NS	0.558	<0.306	NS	ND	<0.394	ND	NS	NS	ND	<0.566	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.510	NS	ND	<0.394	0.506	NS	NS	ND	<0.472	AK103	1.1	
	Benzene	1.51	2.49	4.91	NS	0.69	0.5	2.31	3.6	NS	0.33	NS	1.090	2.180	NS	0.165	1.450	0.355	NS	NS	0.00695	0.277 J	SW8021b	0.0046	
	Toluene	0.0027	NS	NS	NS	NS	NS	NS	0.016	NS	0.0008	NS	0.00285	<0.020	NS	0.0452	<0.025	ND	NS	NS	ND	0.00132 J	SW8021b	1.1	
	Ethylbenzene	0.004	NS	0.1	ND	ND	ND	ND	0.021	NS	ND	NS	ND	<0.020	NS	0.00415	<0.025	ND	NS	NS	ND	<0.00100	SW8021b	0.015	
	Total Xylenes	0.007	NS	0.23	ND	ND	ND	ND	0.34	NS	ND	NS	0.0147	0.0256	NS	0.0539	<0.075	ND	NS	NS	ND	<0.00300	SW8021b	0.19	
MW-09	GRO	ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.090	NS	NS	<0.050	ND	NS	NS	ND	<0.100	AK101	2.2	
	DRO	NS	NS	NS	NS	NS	NS	NS	0.44	NS	NS	NS	NS	0.798	NS	NS	<0.407	ND	NS	NS	ND	<0.570	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.23	NS	NS	<0.407	ND	NS	NS	0.651	0.577	AK103	1.1	
	Benzene	ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.0005	NS	NS	<0.0005	ND	NS	NS	ND	<0.000500	SW8021b	0.0046	
	Toluene	ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	ND	<0.00100	SW8021b	1.1	
	Ethylbenzene	ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	ND	<0.00100	SW8021b	0.015	
	Total Xylenes	ND	NS	NS	NS	NS	ND	NS	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0015	ND	NS	NS	ND	<0.00300	SW8021b	0.19	
MW-10	GRO	NS	NS	NS	ND	NS	ND	ND	ND	NS	NS	NS	NS	<0.090	NS	NS	<0.050	ND	NS	NS	NS	NS	NS	AK101	2.2
	DRO	NS	NS	NS	0.39	NS	NS	NS	0.32	NS	NS	NS	NS	<0.303	NS	NS	<0.391	ND	NS	NS	NS	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.505	NS	NS	<0.391	ND	NS	NS	NS	NS	NS	AK103	1.1
	Benzene	NS	NS	NS	ND	NS	ND	ND	ND	NS	NS	NS	NS	<0.0005	NS	NS	<0.0005	ND	NS	NS	NS	NS	NS	SW8021b	0.0046
	Toluene	NS	NS	NS	ND	NS	ND	ND	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	NS	NS	NS	SW8021b	1.1
	Ethylbenzene	NS	NS	NS	ND	NS	ND	ND	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	NS	NS	NS	SW8021b	0.015
	Total Xylenes	NS	NS	NS	ND	NS	ND	ND	ND	NS	NS	NS	NS	<0.002	NS	NS	<0.0005	ND	NS	NS	NS	NS	NS	SW8021b	0.19
MW-11	GRO	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.090	0.233	ND	<0.050	ND	NS	ND	NS	NS	NS	AK101	2.2
	DRO	NS	NS	NS	NS	NS	NS	NS	3.82	NS	1.72	ND	1.16	2.01	0.650	0.481	0.759	ND	NS	ND	NS	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.45	0.945	0.535	1.79	0.601	NS	0.723	NS	NS	NS	AK103	1.1
	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	0.004	ND	0.000899	0.00586	0.02280	0.0142	0.00576	ND	NS	ND	NS	NS	SW8021b	0.0046
	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	0.0027	NS	ND	ND	ND	<0.002	0.0601	ND	<0.0005	ND	NS	ND	NS	NS	SW8021b	1.1
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.002	0.00659	ND	<0.0005	ND	NS	ND	NS	NS	SW8021b	0.015
	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.002	0.03412	ND	<0.0015	ND	NS	ND	NS	NS	SW8021b	0.19
MW-12	GRO	NS	NS	NS	NS	NS	NS	NS	ND	NS	0.53	ND	0.635	1.170	0.262	0.497	0.035	NS	NS	ND	ND	<0.100	AK101	2.2	
	DRO	NS	NS	NS	0.44	NS	NS	NS	0.44	NS	1.53	ND	0.498	0.756	0.415	0.588	0.714	NS	NS	0.611	ND	1.31	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.730	1.77	0.536	1.060	NS	NS	1.22	1.18	3.27	AK103	1.1	
	Benzene	NS	NS	NS	NS	NS	NS	NS	ND	NS	0.237	0.00218	0.247	0.398	0.101	0.205	0.142	NS	NS	0.0011	0.000580	0.000660	SW8021b	0.0046	
	Toluene	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.002	0.0322	0.0176	<0.0005	NS	NS	ND	ND	<0.00100	SW8021b	1.1	
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.002	0.00407	0.00260	<0.0005	NS	NS	ND	ND	<0.00100	SW8021b	0.015	
	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	ND	NS	ND	ND	ND	<0.002	0.02015	0.01967	<0.0015	NS	NS	ND	ND	<0.00300	SW8021b	0.19	

GRO = Gasoline Range Organics DRO = Diesel Range Organics NS = Not Sampled ND = Not Detected

mg/L = milligrams per Liter VOCs = Volatile Organic Compounds

BOLD = Value exceeds applicable ADEC cleanup criterion.

¹ Groundwater cleanup criteria are based on 18AAC 75.345 Table C (November 6, 2016).

TABLE 3
4748 OLD SEWARD HIGHWAY
ANCHORAGE, ALASKA

Well No.	Date Collected: Parameter	Jan-95	Jul-95	Mar-96	Dec-96	Nov-99	Aug-00	Nov-00	Jun-02	Nov-02	Jul-03	Jan-04	Jun-05	Aug-05	Mar-06	Sept-06	Oct-07	Sep-12	Jun-13	Apr-14	Jul-15	Jul-16	Analytical	ADEC Method Two	
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Method	Groundwater Cleanup Level (mg/L) ¹
MW-13	GRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	217	236	159	NS	NS	AK101	2.2	
	DRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20.1	31.1	22.3	NS	NS	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.75	1.90	2.72	NS	NS	AK103	1.1	
	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19.6	18.500	10.600	NS	NS	SW8021b	0.0046	
	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	63.9	58.300	42.200	NS	NS	SW8021b	1.1	
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.29	4.900	5.600	NS	NS	SW8021b	0.015	
	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26.7	26.900	28.510	NS	NS	SW8021b	0.19	
	1,2,4-Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.140	NS	NS	NS	SW8260B	0.015
	n-Propylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.399	NS	NS	NS	SW8260B	0.660
MW-14	GRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	118	140	113	94.8	125	AK101	2.2	
	DRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	58.6	56.4	52.3	53.6	37.1	AK102	1.5	
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.88	9.52	10.9	5.72	2.75	AK103	1.1	
	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19.6	17.300	19.100	13.500	17.100	SW8021b	0.0046	
	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26.1	25.800	26.200	19.100	31.500	SW8021b	1.1	
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.51	2.240	2.070	1.710	1.670	SW8021b	0.015	
	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14.78	15.320	15.240	13.470	19.950	SW8021b	0.19	
MW-15	GRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	86.100	NS	NS	NS	56.500	1.33	2.25	7.98	NS	NS	AK101	2.2
	DRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	14.6	NS	NS	NS	4.96	1.03	2.01	1.83	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.19	NS	NS	NS	0.439	1.010	1.19	2.25	NS	NS	AK103	1.1
	Benzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	16.900	NS	NS	NS	6.690	0.0467	0.517	1.790	NS	NS	SW8021b	0.0046
	Toluene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19.800	NS	NS	NS	8.630	0.0514	0.213	0.492	NS	NS	SW8021b	1.1
	Ethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.030	NS	NS	NS	1.270	0.0229	0.0567	0.1130	NS	NS	SW8021b	0.015
	Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10.010	NS	NS	NS	6.810	0.1119	0.2171	0.3670	NS	NS	SW8021b	0.19
Tap Well (facility well)	GRO	NS	NS	ND	NS	ND	ND	NS	ND	NS	NS	NS	ND	NS	NS	0.305	NS	NS	NS	NS	NS	NS	NS	AK101	2.2
	DRO	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	AK102	1.5
	RRO	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	AK103	1.1
	Benzene	NS	NS	ND	NS	ND	ND	NS	ND	NS	NS	NS	ND	NS	NS	NS	0.0108	NS	ND	NS	NS	ND	<0.000500	EPA 524.2	0.0046
	Toluene	NS	NS	ND	NS	ND	ND	NS	ND	NS	NS	NS	ND	NS	NS	NS	0.0495	NS	ND	NS	NS	ND	<0.000500	EPA 524.2	1.1
	Ethylbenzene	NS	NS	ND	NS	ND	ND	NS	ND	NS	NS	NS	ND	NS	NS	NS	0.00947	NS	ND	NS	NS	ND	<0.000500	EPA 524.2	0.015
	Total Xylenes	NS	NS	ND	NS	ND	ND	NS	ND	NS	NS	NS	ND	NS	NS	NS	0.0613	NS	ND	NS	NS	ND	<0.000500	EPA 524.2	0.19
VOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	EPA 524.2	varies

GRO = Gasoline Range Organics DRO = Diesel Range Organics RRO = Residual Range Organics NS = Not Sampled ND = Not Detected

mg/L = milligrams per Liter VOCs = Volatile Organic Compounds

BOLD = Value exceeds applicable ADEC cleanup criterion.

¹ Groundwater cleanup criteria are based on 18AAC 75.345 Table C (November 6, 2016).

**APPENDIX A
FIELD NOTES**

6/27/16 Stop Clear

Time	Well	DTW	TOW	Time	Notes
5:30	BGES				on site. Began opening MWS
	MW1	8.71	21.93	6:22	
	MW2	6.42	13.49	6:02	
	MW3	5.89	8.61	5:50	
	MWS	8.12	12.85	7:21	
	MW8	6.29	13.88	7:54	
	MW9	6.04	13.33	7:45	
	MW10	8.50	14.92	7:33	
	MW11	5.98	13.95	8:35	
	MW12	5.52	8.28	9:01	
	MW13	7.82	11.63	6:15	
	MW14	7.98	12.99	6:43	
	MW15	6.38	10.40	6:51	
	B6/VE	8.07	14.04	6:30	

7:00 Northern Dam on site. Began set up.

8:10 Northern Dam closed lane on Old Sevier Highway.

11:05	MW12	Collected sample from BGES off OSH
11:20	Northern Dam	Began cleaning up equipment
	BGES	set up on MW8
11:40	Northern Dam	off site. OSH now open.
14:28	MW8	Collected sample from BGES to MWS
16:55	MWS	Collected sample from MWS move to MW14
18:55	MW14	Collected sample from MWS cleaning up.
19:15	BGES	off site.

MWS

6/28/16

48 Overcast

7:15 BGES on site. Setup on MW9.

12:03 Collect sample from MW9.
Move to MW3

13:42 Collect sample from MW3.
Began cleanup.

14:18 Collected water sample from
the facility well inside.

Stored all purge & decon water
in 55 gallon drum inside.

14:40 BGES off site.

MW3

APPENDIX B
LABORATORY ANALYTICAL DATA

Laboratory Report of Analysis

To: BGES Inc.
1042 E. 6th Ave.,
Anchorage, AK 99501
(907)644-2900

Report Number: **1163507**

Client Project: **Custom Truck**

Dear Jayne Martin,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Victoria at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.



Victoria Pennick
2016.07.20
17:17:56 -08'00'

SGS North America Inc.
Environmental Services - Alaska Division
Project Manager

Victoria Pennick
Project Manager
Victoria.Pennick@sgs.com

Date

Print Date: 07/20/2016 8:45:05AM

Case Narrative

SGS Client: **BGES Inc.**
SGS Project: **1163507**
Project Name/Site: **Custom Truck**
Project Contact: **Jayne Martin**

Refer to sample receipt form for information on sample condition.

MW8-0627 (1163507003) PS

8021B - Surrogate recovery for 1,4-difluorobenzene (137%) does not meet QC criteria due to matrix interference.

LCSD for HBN 1738459 [VXX/2908 (1334810) LCSD

524.2 - LCSD recoveries for several analytes do not meet QC criteria. These analytes were not detected above the LOQ in the associated samples.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 07/20/2016 8:45:05AM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
MW3-0628	1163507001	06/28/2016	06/28/2016	Water (Surface, Eff., Ground)
MW5-0627	1163507002	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
MW8-0627	1163507003	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
MW9-0628	1163507004	06/28/2016	06/28/2016	Water (Surface, Eff., Ground)
MW12-0627	1163507005	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
MW14-0627	1163507006	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
MW15-0627	1163507007	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
FW-0628	1163507008	06/28/2016	06/28/2016	Water (Surface, Eff., Ground)
Trip Blank	1163507009	06/27/2016	06/28/2016	Water (Surface, Eff., Ground)
Trip Blank	1163507010	06/28/2016	06/28/2016	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
AK101	AK101/8021 Combo.
SW8021B	AK101/8021 Combo.
AK102	DRO/RRO Low Volume Water
AK103	DRO/RRO Low Volume Water
EPA 524.2	Volatile Organics by 524.2 (DW)

Print Date: 07/20/2016 8:45:07AM

Detectable Results Summary

Client Sample ID: **MW3-0628**

Lab Sample ID: 1163507001

Semivolatile Organic Fuels

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	0.612	mg/L
Benzene	124	ug/L
Ethylbenzene	2.39	ug/L
Gasoline Range Organics	0.551	mg/L
o-Xylene	20.9	ug/L
P & M -Xylene	29.1	ug/L
Toluene	154	ug/L

Client Sample ID: **MW5-0627**

Lab Sample ID: 1163507002

Semivolatile Organic Fuels

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.524	mg/L
Benzene	122	ug/L
Gasoline Range Organics	0.311	mg/L
P & M -Xylene	9.72	ug/L
Toluene	1.23	ug/L

Client Sample ID: **MW8-0627**

Lab Sample ID: 1163507003

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Benzene	277	ug/L
Gasoline Range Organics	0.699	mg/L
Toluene	1.32	ug/L

Client Sample ID: **MW9-0628**

Lab Sample ID: 1163507004

Semivolatile Organic Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Residual Range Organics	0.577	mg/L

Client Sample ID: **MW12-0627**

Lab Sample ID: 1163507005

Semivolatile Organic Fuels

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	1.31	mg/L
Residual Range Organics	3.27	mg/L
Benzene	0.660	ug/L

Client Sample ID: **MW14-0627**

Lab Sample ID: 1163507006

Semivolatile Organic Fuels

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	37.1	mg/L
Residual Range Organics	2.75	mg/L
Benzene	16700	ug/L
Ethylbenzene	1650	ug/L
Gasoline Range Organics	121	mg/L
o-Xylene	5860	ug/L
P & M -Xylene	13900	ug/L
Toluene	30900	ug/L

Detectable Results Summary

Client Sample ID: **MW15-0627**

Lab Sample ID: 1163507007

Semivolatile Organic Fuels

Volatile Fuels

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Diesel Range Organics	33.1	mg/L
Residual Range Organics	2.52	mg/L
Benzene	17100	ug/L
Ethylbenzene	1670	ug/L
Gasoline Range Organics	125	mg/L
o-Xylene	5950	ug/L
P & M -Xylene	14000	ug/L
Toluene	31500	ug/L



Results of MW3-0628

Client Sample ID: MW3-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507001
Lab Project ID: 1163507

Collection Date: 06/28/16 13:42
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 0.612, 0.577, 0.173, mg/L, 1, 07/06/16 02:20

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 88, 50-150, %, 1, 07/06/16 02:20

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 02:20
Container ID: 1163507001-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 0.481 U, 0.481, 0.144, mg/L, 1, 07/06/16 02:20

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 88.2, 50-150, %, 1, 07/06/16 02:20

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 02:20
Container ID: 1163507001-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW3-0628

Client Sample ID: MW3-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507001
Lab Project ID: 1163507

Collection Date: 06/28/16 13:42
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.551, 0.100, 0.0310, mg/L, 1, 07/08/16 16:03

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 100, 50-150, %, 1, 07/08/16 16:03

Batch Information

Analytical Batch: VFC13123
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/08/16 16:03
Container ID: 1163507001-A

Prep Batch: VXX29105
Prep Method: SW5030B
Prep Date/Time: 07/08/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 88.1, 77-115, %, 1, 07/08/16 16:03

Batch Information

Analytical Batch: VFC13123
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/08/16 16:03
Container ID: 1163507001-A

Prep Batch: VXX29105
Prep Method: SW5030B
Prep Date/Time: 07/08/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW5-0627

Client Sample ID: MW5-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507002
Lab Project ID: 1163507

Collection Date: 06/27/16 16:55
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 0.577 U, 0.577, 0.173, mg/L, 1, 07/06/16 02:31

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 85.4, 50-150, %, 1, 07/06/16 02:31

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 02:31
Container ID: 1163507002-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 0.524, 0.481, 0.144, mg/L, 1, 07/06/16 02:31

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 87.6, 50-150, %, 1, 07/06/16 02:31

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 02:31
Container ID: 1163507002-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW5-0627

Client Sample ID: MW5-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507002
Lab Project ID: 1163507

Collection Date: 06/27/16 16:55
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.311, 0.100, 0.0310, mg/L, 1, 07/06/16 13:06

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 101, 50-150, %, 1, 07/06/16 13:06

Batch Information

Analytical Batch: VFC13120
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/06/16 13:06
Container ID: 1163507002-A

Prep Batch: VXX29082
Prep Method: SW5030B
Prep Date/Time: 07/06/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 107, 77-115, %, 1, 07/06/16 13:06

Batch Information

Analytical Batch: VFC13120
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/06/16 13:06
Container ID: 1163507002-A

Prep Batch: VXX29082
Prep Method: SW5030B
Prep Date/Time: 07/06/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW8-0627

Client Sample ID: MW8-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507003
Lab Project ID: 1163507

Collection Date: 06/27/16 14:28
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 0.566 U, 0.566, 0.170, mg/L, 1, 07/06/16 02:41

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 83.2, 50-150, %, 1, 07/06/16 02:41

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 02:41
Container ID: 1163507003-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 0.472 U, 0.472, 0.142, mg/L, 1, 07/06/16 02:41

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 84.9, 50-150, %, 1, 07/06/16 02:41

Batch Information

Analytical Batch: XFC12497
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 02:41
Container ID: 1163507003-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 265 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW8-0627

Client Sample ID: **MW8-0627**
 Client Project ID: **Custom Truck**
 Lab Sample ID: 1163507003
 Lab Project ID: 1163507

Collection Date: 06/27/16 14:28
 Received Date: 06/28/16 14:39
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.699	0.100	0.0310	mg/L	1		07/06/16 13:25

Surrogates

4-Bromofluorobenzene (surr)	103	50-150		%	1		07/06/16 13:25
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Batch Information

Analytical Batch: VFC13120
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 07/06/16 13:25
 Container ID: 1163507003-A

Prep Batch: VXX29082
 Prep Method: SW5030B
 Prep Date/Time: 07/06/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	277	5.00	1.50	ug/L	10		07/07/16 23:11
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		07/06/16 13:25
o-Xylene	1.00 U	1.00	0.310	ug/L	1		07/06/16 13:25
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		07/06/16 13:25
Toluene	1.32	1.00	0.310	ug/L	1		07/06/16 13:25

Surrogates

1,4-Difluorobenzene (surr)	137 *	77-115		%	1		07/06/16 13:25
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Batch Information

Analytical Batch: VFC13120
 Analytical Method: SW8021B
 Analyst: ST
 Analytical Date/Time: 07/06/16 13:25
 Container ID: 1163507003-A

Prep Batch: VXX29082
 Prep Method: SW5030B
 Prep Date/Time: 07/06/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Analytical Batch: VFC13121
 Analytical Method: SW8021B
 Analyst: ST
 Analytical Date/Time: 07/07/16 23:11
 Container ID: 1163507003-A

Prep Batch: VXX29096
 Prep Method: SW5030B
 Prep Date/Time: 07/07/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW9-0628

Client Sample ID: MW9-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507004
Lab Project ID: 1163507

Collection Date: 06/28/16 12:03
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 0.570 U, 0.570, 0.171, mg/L, 1, 07/06/16 13:13

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 86.6, 50-150, %, 1, 07/06/16 13:13

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 13:13
Container ID: 1163507004-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 263 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 0.577, 0.475, 0.143, mg/L, 1, 07/06/16 13:13

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 86, 50-150, %, 1, 07/06/16 13:13

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 13:13
Container ID: 1163507004-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 263 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW9-0628

Client Sample ID: MW9-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507004
Lab Project ID: 1163507

Collection Date: 06/28/16 12:03
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.100 U, 0.100, 0.0310, mg/L, 1, 07/08/16 16:21

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 100, 50-150, %, 1, 07/08/16 16:21

Batch Information

Analytical Batch: VFC13123
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/08/16 16:21
Container ID: 1163507004-A

Prep Batch: VXX29105
Prep Method: SW5030B
Prep Date/Time: 07/08/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 83.5, 77-115, %, 1, 07/08/16 16:21

Batch Information

Analytical Batch: VFC13123
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/08/16 16:21
Container ID: 1163507004-A

Prep Batch: VXX29105
Prep Method: SW5030B
Prep Date/Time: 07/08/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW12-0627

Client Sample ID: MW12-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507005
Lab Project ID: 1163507

Collection Date: 06/27/16 11:05
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Diesel Range Organics, 1.31, 0.568, 0.170, mg/L, 1, 07/06/16 13:23

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 5a Androstane (surr), 97.3, 50-150, %, 1, 07/06/16 13:23

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 13:23
Container ID: 1163507005-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 264 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Residual Range Organics, 3.27, 0.473, 0.142, mg/L, 1, 07/06/16 13:23

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: n-Triacontane-d62 (surr), 99.4, 50-150, %, 1, 07/06/16 13:23

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 13:23
Container ID: 1163507005-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 264 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW12-0627

Client Sample ID: MW12-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507005
Lab Project ID: 1163507

Collection Date: 06/27/16 11:05
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.100 U, 0.100, 0.0310, mg/L, 1, 07/06/16 13:44

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 94.1, 50-150, %, 1, 07/06/16 13:44

Batch Information

Analytical Batch: VFC13120
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/06/16 13:44
Container ID: 1163507005-A

Prep Batch: VXX29082
Prep Method: SW5030B
Prep Date/Time: 07/06/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 91.5, 77-115, %, 1, 07/06/16 13:44

Batch Information

Analytical Batch: VFC13120
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/06/16 13:44
Container ID: 1163507005-A

Prep Batch: VXX29082
Prep Method: SW5030B
Prep Date/Time: 07/06/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW14-0627

Client Sample ID: MW14-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507006
Lab Project ID: 1163507

Collection Date: 06/27/16 18:55
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 13:34
Container ID: 1163507006-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 13:34
Container ID: 1163507006-D

Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW14-0627

Client Sample ID: MW14-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507006
Lab Project ID: 1163507

Collection Date: 06/27/16 18:55
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 121, 20.0, 6.20, mg/L, 200, 07/07/16 21:57

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 104, 50-150, %, 200, 07/07/16 21:57

Batch Information

Analytical Batch: VFC13121
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/07/16 21:57
Container ID: 1163507006-A

Prep Batch: VXX29096
Prep Method: SW5030B
Prep Date/Time: 07/07/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 86.3, 77-115, %, 200, 07/07/16 21:57

Batch Information

Analytical Batch: VFC13121
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/07/16 21:57
Container ID: 1163507006-A

Prep Batch: VXX29096
Prep Method: SW5030B
Prep Date/Time: 07/07/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW15-0627

Client Sample ID: MW15-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507007
Lab Project ID: 1163507

Collection Date: 06/27/16 19:02
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Semivolatile Organic Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Diesel Range Organics and Surrogates (5a Androstane).

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK102
Analyst: S.G
Analytical Date/Time: 07/06/16 13:44
Container ID: 1163507007-D
Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows include Residual Range Organics and Surrogates (n-Triacontane-d62).

Batch Information

Analytical Batch: XFC12510
Analytical Method: AK103
Analyst: S.G
Analytical Date/Time: 07/06/16 13:44
Container ID: 1163507007-D
Prep Batch: XXX35705
Prep Method: SW3520C
Prep Date/Time: 07/05/16 08:30
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:09AM



Results of MW15-0627

Client Sample ID: MW15-0627
Client Project ID: Custom Truck
Lab Sample ID: 1163507007
Lab Project ID: 1163507

Collection Date: 06/27/16 19:02
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 125, 20.0, 6.20, mg/L, 200, 07/07/16 22:15

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 105, 50-150, %, 200, 07/07/16 22:15

Batch Information

Analytical Batch: VFC13121
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 07/07/16 22:15
Container ID: 1163507007-A

Prep Batch: VXX29096
Prep Method: SW5030B
Prep Date/Time: 07/07/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Benzene, Ethylbenzene, o-Xylene, P & M -Xylene, Toluene

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 82.9, 77-115, %, 200, 07/07/16 22:15

Batch Information

Analytical Batch: VFC13121
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 07/07/16 22:15
Container ID: 1163507007-A

Prep Batch: VXX29096
Prep Method: SW5030B
Prep Date/Time: 07/07/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of FW-0628

Client Sample ID: FW-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507008
Lab Project ID: 1163507

Collection Date: 06/28/16 14:18
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Print Date: 07/20/2016 8:45:09AM



Results of FW-0628

Client Sample ID: FW-0628
Client Project ID: Custom Truck
Lab Sample ID: 1163507008
Lab Project ID: 1163507

Collection Date: 06/28/16 14:18
Received Date: 06/28/16 14:39
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various chemical compounds and their detection results.

Surrogates

Table with 7 columns: Surrogate Name, Result Qual, LOQ/CL, DL, Units, DF, Date Analyzed. Lists surrogate compounds like 1,2-Dichloroethane-D4.

Batch Information

Analytical Batch: VMS15936
Analytical Method: EPA 524.2
Analyst: NRB
Analytical Date/Time: 07/01/16 15:33
Container ID: 1163507008-A

Prep Batch: VXX29080
Prep Method: SW5030B
Prep Date/Time: 07/01/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Custom Truck**
 Lab Sample ID: 1163507009
 Lab Project ID: 1163507

Collection Date: 06/27/16 11:05
 Received Date: 06/28/16 14:39
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.100 U	0.100	0.0310	mg/L	1		07/06/16 11:12

Surrogates

4-Bromofluorobenzene (surr)	97.4	50-150		%	1		07/06/16 11:12
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Batch Information

Analytical Batch: VFC13120
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 07/06/16 11:12
 Container ID: 1163507009-A

Prep Batch: VXX29082
 Prep Method: SW5030B
 Prep Date/Time: 07/06/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.500 U	0.500	0.150	ug/L	1		07/06/16 11:12
Ethylbenzene	1.00 U	1.00	0.310	ug/L	1		07/06/16 11:12
o-Xylene	1.00 U	1.00	0.310	ug/L	1		07/06/16 11:12
P & M -Xylene	2.00 U	2.00	0.620	ug/L	1		07/06/16 11:12
Toluene	1.00 U	1.00	0.310	ug/L	1		07/06/16 11:12

Surrogates

1,4-Difluorobenzene (surr)	88.1	77-115		%	1		07/06/16 11:12
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Batch Information

Analytical Batch: VFC13120
 Analytical Method: SW8021B
 Analyst: ST
 Analytical Date/Time: 07/06/16 11:12
 Container ID: 1163507009-A

Prep Batch: VXX29082
 Prep Method: SW5030B
 Prep Date/Time: 07/06/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Custom Truck**
 Lab Sample ID: 1163507010
 Lab Project ID: 1163507

Collection Date: 06/28/16 14:18
 Received Date: 06/28/16 14:39
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1,1,1,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,1,1-Trichloroethane	0.500 U	0.500	0.150	ug/L	1	(<200)	07/01/16 11:59
1,1,2,2-Tetrachloroethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,1,2-Trichloroethane	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
1,1-Dichloroethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,1-Dichloroethene	0.500 U	0.500	0.150	ug/L	1	(<7)	07/01/16 11:59
1,1-Dichloropropene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,2,3-Trichlorobenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,2,3-Trichloropropane	0.500 U	0.500	0.180	ug/L	1		07/01/16 11:59
1,2,4-Trichlorobenzene	0.500 U	0.500	0.150	ug/L	1	(<70)	07/01/16 11:59
1,2,4-Trimethylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,2-Dibromo-3-chloropropane	2.00 U	2.00	0.620	ug/L	1		07/01/16 11:59
1,2-Dibromoethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,2-Dichlorobenzene	0.500 U	0.500	0.150	ug/L	1	(<600)	07/01/16 11:59
1,2-Dichloroethane	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
1,2-Dichloropropane	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
1,3,5-Trimethylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,3-Dichlorobenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,3-Dichloropropane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
1,4-Dichlorobenzene	0.500 U	0.500	0.150	ug/L	1	(<75)	07/01/16 11:59
2,2-Dichloropropane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
2-Chlorotoluene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
4-Chlorotoluene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
4-Isopropyltoluene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Benzene	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
Bromobenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Bromochloromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Bromodichloromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Bromoform	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Bromomethane	2.00 U	2.00	0.620	ug/L	1		07/01/16 11:59
Carbon tetrachloride	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
Chlorobenzene	0.500 U	0.500	0.150	ug/L	1	(<100)	07/01/16 11:59
Chloroethane	1.00 U	1.00	0.310	ug/L	1		07/01/16 11:59
Chloroform	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Chloromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
cis-1,2-Dichloroethene	0.500 U	0.500	0.150	ug/L	1	(<70)	07/01/16 11:59
cis-1,3-Dichloropropene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59

Print Date: 07/20/2016 8:45:09AM



Results of Trip Blank

Client Sample ID: **Trip Blank**
 Client Project ID: **Custom Truck**
 Lab Sample ID: 1163507010
 Lab Project ID: 1163507

Collection Date: 06/28/16 14:18
 Received Date: 06/28/16 14:39
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Dibromochloromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Dibromomethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Dichlorodifluoromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Ethylbenzene	0.500 U	0.500	0.150	ug/L	1	(<700)	07/01/16 11:59
Hexachlorobutadiene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Isopropylbenzene (Cumene)	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Methylene chloride	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
Methyl-t-butyl ether	1.00 U	1.00	0.310	ug/L	1		07/01/16 11:59
Naphthalene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
n-Butylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
n-Propylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
o-Xylene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
P & M -Xylene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
sec-Butylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Styrene	0.500 U	0.500	0.150	ug/L	1	(<100)	07/01/16 11:59
tert-Butylbenzene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Tetrachloroethene	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
Toluene	0.500 U	0.500	0.150	ug/L	1	(<1000)	07/01/16 11:59
Total Trihalomethanes	2.00 U	2.00	0.600	ug/L	1	(<80)	07/01/16 11:59
trans-1,2-Dichloroethene	0.500 U	0.500	0.150	ug/L	1	(<100)	07/01/16 11:59
trans-1,3-Dichloropropene	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Trichloroethene	0.500 U	0.500	0.150	ug/L	1	(<5)	07/01/16 11:59
Trichlorofluoromethane	0.500 U	0.500	0.150	ug/L	1		07/01/16 11:59
Vinyl chloride	0.400 U	0.400	0.120	ug/L	1	(<2)	07/01/16 11:59
Xylenes (total)	0.500 U	0.500	0.150	ug/L	1	(<10000)	07/01/16 11:59

Surrogates

1,2-Dichloroethane-D4 (surr)	102	70-130		%	1		07/01/16 11:59
4-Bromofluorobenzene (surr)	101	70-130		%	1		07/01/16 11:59
Toluene-d8 (surr)	103	70-130		%	1		07/01/16 11:59

Batch Information

Analytical Batch: VMS15936
 Analytical Method: EPA 524.2
 Analyst: NRB
 Analytical Date/Time: 07/01/16 11:59
 Container ID: 1163507010-A

Prep Batch: VXX29080
 Prep Method: SW5030B
 Prep Date/Time: 07/01/16 06:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:09AM

Method Blank

Blank ID: MB for HBN 1738459 [VXX/29080]

Blank Lab ID: 1334806

QC for Samples:

1163507008, 1163507010

Matrix: Drinking Water

Results by EPA 524.2

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1,1,1,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,1-Trichloroethane	0.250U	0.500	0.150	ug/L
1,1,2,2-Tetrachloroethane	0.250U	0.500	0.150	ug/L
1,1,2-Trichloroethane	0.250U	0.500	0.150	ug/L
1,1-Dichloroethane	0.250U	0.500	0.150	ug/L
1,1-Dichloroethene	0.250U	0.500	0.150	ug/L
1,1-Dichloropropene	0.250U	0.500	0.150	ug/L
1,2,3-Trichlorobenzene	0.250U	0.500	0.150	ug/L
1,2,3-Trichloropropane	0.250U	0.500	0.180	ug/L
1,2,4-Trichlorobenzene	0.250U	0.500	0.150	ug/L
1,2,4-Trimethylbenzene	0.250U	0.500	0.150	ug/L
1,2-Dibromo-3-chloropropane	1.00U	2.00	0.620	ug/L
1,2-Dibromoethane	0.250U	0.500	0.150	ug/L
1,2-Dichlorobenzene	0.250U	0.500	0.150	ug/L
1,2-Dichloroethane	0.250U	0.500	0.150	ug/L
1,2-Dichloropropane	0.250U	0.500	0.150	ug/L
1,3,5-Trimethylbenzene	0.250U	0.500	0.150	ug/L
1,3-Dichlorobenzene	0.250U	0.500	0.150	ug/L
1,3-Dichloropropane	0.250U	0.500	0.150	ug/L
1,4-Dichlorobenzene	0.250U	0.500	0.150	ug/L
2,2-Dichloropropane	0.250U	0.500	0.150	ug/L
2-Chlorotoluene	0.250U	0.500	0.150	ug/L
4-Chlorotoluene	0.250U	0.500	0.150	ug/L
4-Isopropyltoluene	0.250U	0.500	0.150	ug/L
Benzene	0.250U	0.500	0.150	ug/L
Bromobenzene	0.250U	0.500	0.150	ug/L
Bromochloromethane	0.250U	0.500	0.150	ug/L
Bromodichloromethane	0.250U	0.500	0.150	ug/L
Bromoform	0.250U	0.500	0.150	ug/L
Bromomethane	1.00U	2.00	0.620	ug/L
Carbon tetrachloride	0.250U	0.500	0.150	ug/L
Chlorobenzene	0.250U	0.500	0.150	ug/L
Chloroethane	0.500U	1.00	0.310	ug/L
Chloroform	0.250U	0.500	0.150	ug/L
Chloromethane	0.250U	0.500	0.150	ug/L
cis-1,2-Dichloroethene	0.250U	0.500	0.150	ug/L
cis-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Dibromochloromethane	0.250U	0.500	0.150	ug/L

Print Date: 07/20/2016 8:45:11AM

Method Blank

Blank ID: MB for HBN 1738459 [VXX/29080]
 Blank Lab ID: 1334806

Matrix: Drinking Water

QC for Samples:
 1163507008, 1163507010

Results by EPA 524.2

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Dibromomethane	0.250U	0.500	0.150	ug/L
Dichlorodifluoromethane	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.250U	0.500	0.150	ug/L
Hexachlorobutadiene	0.250U	0.500	0.150	ug/L
Isopropylbenzene (Cumene)	0.250U	0.500	0.150	ug/L
Methylene chloride	0.250U	0.500	0.150	ug/L
Methyl-t-butyl ether	0.500U	1.00	0.310	ug/L
Naphthalene	0.250U	0.500	0.150	ug/L
n-Butylbenzene	0.250U	0.500	0.150	ug/L
n-Propylbenzene	0.250U	0.500	0.150	ug/L
o-Xylene	0.250U	0.500	0.150	ug/L
P & M -Xylene	0.250U	0.500	0.150	ug/L
sec-Butylbenzene	0.250U	0.500	0.150	ug/L
Styrene	0.250U	0.500	0.150	ug/L
tert-Butylbenzene	0.250U	0.500	0.150	ug/L
Tetrachloroethene	0.250U	0.500	0.150	ug/L
Toluene	0.250U	0.500	0.150	ug/L
trans-1,2-Dichloroethene	0.250U	0.500	0.150	ug/L
trans-1,3-Dichloropropene	0.250U	0.500	0.150	ug/L
Trichloroethene	0.250U	0.500	0.150	ug/L
Trichlorofluoromethane	0.250U	0.500	0.150	ug/L
Vinyl chloride	0.200U	0.400	0.120	ug/L
Surrogates				
1,2-Dichloroethane-D4 (surr)	101	70-130		%
4-Bromofluorobenzene (surr)	101	70-130		%
Toluene-d8 (surr)	103	70-130		%

Batch Information

Analytical Batch: VMS15936
 Analytical Method: EPA 524.2
 Instrument: VPA 780/5975 GC/MS
 Analyst: NRB
 Analytical Date/Time: 7/1/2016 7:53:00AM

Prep Batch: VXX29080
 Prep Method: SW5030B
 Prep Date/Time: 7/1/2016 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX29080]
 Blank Spike Lab ID: 1334807
 Date Analyzed: 07/01/2016 08:22

Spike Duplicate ID: LCSD for HBN 1163507
 [VXX29080]
 Spike Duplicate Lab ID: 1334810
 Matrix: Drinking Water

QC for Samples: 1163507008, 1163507010

Results by EPA 524.2

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1,1,1,2-Tetrachloroethane	30	34.7	116	30	34.6	115	(70-130)	0.03	(< 30)
1,1,1-Trichloroethane	30	32.5	108	30	32.5	108	(70-130)	0.00	(< 30)
1,1,2,2-Tetrachloroethane	30	34.2	114	30	34.7	116	(70-130)	1.50	(< 30)
1,1,2-Trichloroethane	30	34.0	113	30	34.5	115	(70-130)	1.30	(< 30)
1,1-Dichloroethane	30	32.0	107	30	31.9	106	(70-130)	0.31	(< 30)
1,1-Dichloroethene	30	29.8	99	30	29.5	98	(70-130)	1.20	(< 30)
1,1-Dichloropropene	30	33.5	112	30	34.0	113	(70-130)	1.60	(< 30)
1,2,3-Trichlorobenzene	30	35.3	118	30	42.5	142	* (70-130)	18.30	(< 30)
1,2,3-Trichloropropane	30	33.9	113	30	34.8	116	(70-130)	2.50	(< 30)
1,2,4-Trichlorobenzene	30	36.6	122	30	41.1	137	* (70-130)	11.50	(< 30)
1,2,4-Trimethylbenzene	30	37.3	124	30	37.3	124	(70-130)	0.16	(< 30)
1,2-Dibromo-3-chloropropane	30	34.4	115	30	37.5	125	(70-130)	8.60	(< 30)
1,2-Dibromoethane	30	34.9	116	30	35.5	118	(70-130)	1.90	(< 30)
1,2-Dichlorobenzene	30	32.8	109	30	33.5	112	(70-130)	2.00	(< 30)
1,2-Dichloroethane	30	29.3	98	30	29.2	98	(70-130)	0.03	(< 30)
1,2-Dichloropropane	30	33.5	112	30	33.9	113	(70-130)	1.20	(< 30)
1,3,5-Trimethylbenzene	30	36.8	123	30	37.4	125	(70-130)	1.60	(< 30)
1,3-Dichlorobenzene	30	33.2	111	30	34.0	113	(70-130)	2.50	(< 30)
1,3-Dichloropropane	30	35.5	118	30	35.9	120	(70-130)	1.10	(< 30)
1,4-Dichlorobenzene	30	34.9	116	30	34.9	116	(70-130)	0.06	(< 30)
2,2-Dichloropropane	30	31.8	106	30	31.9	106	(70-130)	0.31	(< 30)
2-Chlorotoluene	30	35.8	119	30	36.1	120	(70-130)	0.83	(< 30)
4-Chlorotoluene	30	35.5	118	30	35.9	120	(70-130)	1.30	(< 30)
4-Isopropyltoluene	30	37.1	124	30	37.5	125	(70-130)	1.10	(< 30)
Benzene	30	33.3	111	30	34.1	114	(70-130)	2.20	(< 30)
Bromobenzene	30	33.9	113	30	33.7	112	(70-130)	0.62	(< 30)
Bromochloromethane	30	30.6	102	30	30.1	100	(70-130)	1.70	(< 30)
Bromodichloromethane	30	32.5	108	30	32.4	108	(70-130)	0.31	(< 30)
Bromoform	30	34.5	115	30	34.4	115	(70-130)	0.41	(< 30)
Bromomethane	30	23.3	78	30	23.7	79	(70-130)	1.70	(< 30)
Carbon tetrachloride	30	33.1	110	30	32.9	110	(70-130)	0.42	(< 30)
Chlorobenzene	30	33.8	113	30	34.1	114	(70-130)	1.10	(< 30)
Chloroethane	30	29.0	97	30	27.7	92	(70-130)	4.70	(< 30)
Chloroform	30	29.9	100	30	29.8	99	(70-130)	0.47	(< 30)

Print Date: 07/20/2016 8:45:13AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX29080]
 Blank Spike Lab ID: 1334807
 Date Analyzed: 07/01/2016 08:22

Spike Duplicate ID: LCSD for HBN 1163507
 [VXX29080]
 Spike Duplicate Lab ID: 1334810
 Matrix: Drinking Water

QC for Samples: 1163507008, 1163507010

Results by EPA 524.2

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Chloromethane	30	21.9	73	30	27.1	90	(70-130)	21.20	(< 30)
cis-1,2-Dichloroethene	30	31.0	103	30	30.9	103	(70-130)	0.19	(< 30)
cis-1,3-Dichloropropene	30	33.4	111	30	33.9	113	(70-130)	1.50	(< 30)
Dibromochloromethane	30	34.9	116	30	35.4	118	(70-130)	1.60	(< 30)
Dibromomethane	30	30.4	101	30	30.3	101	(70-130)	0.26	(< 30)
Dichlorodifluoromethane	30	35.8	119	30	35.2	117	(70-130)	1.60	(< 30)
Ethylbenzene	30	35.9	120	30	36.0	120	(70-130)	0.28	(< 30)
Hexachlorobutadiene	30	35.3	118	30	37.3	124	(70-130)	5.50	(< 30)
Isopropylbenzene (Cumene)	30	35.7	119	30	35.7	119	(70-130)	0.14	(< 30)
Methylene chloride	30	32.5	108	30	31.7	106	(70-130)	2.60	(< 30)
Methyl-t-butyl ether	45	45.3	101	45	46.4	103	(70-130)	2.30	(< 30)
Naphthalene	30	32.8	109	30	40.3	134	* (70-130)	20.60	(< 30)
n-Butylbenzene	30	37.4	125	30	37.4	125	(70-130)	0.00	(< 30)
n-Propylbenzene	30	36.6	122	30	36.9	123	(70-130)	0.76	(< 30)
o-Xylene	30	36.6	122	30	36.7	122	(70-130)	0.30	(< 30)
P & M -Xylene	60	73.2	122	60	74.3	124	(70-130)	1.50	(< 30)
sec-Butylbenzene	30	35.8	119	30	36.3	121	(70-130)	1.50	(< 30)
Styrene	30	35.7	119	30	35.6	119	(70-130)	0.08	(< 30)
tert-Butylbenzene	30	37.0	123	30	37.4	125	(70-130)	1.00	(< 30)
Tetrachloroethene	30	33.9	113	30	34.7	116	(70-130)	2.30	(< 30)
Toluene	30	33.5	112	30	33.9	113	(70-130)	1.00	(< 30)
trans-1,2-Dichloroethene	30	32.1	107	30	32.3	108	(70-130)	0.47	(< 30)
trans-1,3-Dichloropropene	30	38.2	127	30	38.8	129	(70-130)	1.70	(< 30)
Trichloroethene	30	32.9	110	30	33.3	111	(70-130)	1.20	(< 30)
Trichlorofluoromethane	30	31.4	105	30	31.6	105	(70-130)	0.86	(< 30)
Vinyl chloride	30	30.5	102	30	30.6	102	(70-130)	0.59	(< 30)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30	97	97	30	95.2	95	(70-130)	1.90	
4-Bromofluorobenzene (surr)	30	101	101	30	99.3	99	(70-130)	1.90	
Toluene-d8 (surr)	30	104	104	30	104	104	(70-130)	0.10	

Print Date: 07/20/2016 8:45:13AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX29080]
 Blank Spike Lab ID: 1334807
 Date Analyzed: 07/01/2016 08:22

Spike Duplicate ID: LCSD for HBN 1163507 [VXX29080]
 Spike Duplicate Lab ID: 1334810
 Matrix: Drinking Water

QC for Samples: 1163507008, 1163507010

Results by EPA 524.2

Parameter	Blank Spike (%)			Spike Duplicate (%)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			

Batch Information

Analytical Batch: **VMS15936**
 Analytical Method: **EPA 524.2**
 Instrument: **VPA 780/5975 GC/MS**
 Analyst: **NRB**

Prep Batch: **VXX29080**
 Prep Method: **SW5030B**
 Prep Date/Time: **07/01/2016 06:00**
 Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:13AM

Method Blank

Blank ID: MB for HBN 1738468 [VXX/29082]
Blank Lab ID: 1334837

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1163507002, 1163507003, 1163507005, 1163507009

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	98.7	50-150		%

Batch Information

Analytical Batch: VFC13120
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 7/6/2016 9:37:00AM

Prep Batch: VXX29082
Prep Method: SW5030B
Prep Date/Time: 7/6/2016 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:14AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX29082]
 Blank Spike Lab ID: 1334840
 Date Analyzed: 07/06/2016 10:34

Spike Duplicate ID: LCSD for HBN 1163507 [VXX29082]
 Spike Duplicate Lab ID: 1334841
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1163507002, 1163507003, 1163507005, 1163507009

Results by AK101

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Gasoline Range Organics	1.00	0.968	97	1.00	0.891	89	(60-120)	8.20	(< 20)

Surrogates

4-Bromofluorobenzene (surr)	0.0500	107	107	0.0500	100	100	(50-150)	6.70	
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Batch Information

Analytical Batch: **VFC13120**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX29082**
 Prep Method: **SW5030B**
 Prep Date/Time: **07/06/2016 06:00**
 Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:16AM

Method Blank

Blank ID: MB for HBN 1738468 [VXX/29082]
 Blank Lab ID: 1334837

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1163507002, 1163507003, 1163507005, 1163507009

Results by SW8021B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
Toluene	0.500U	1.00	0.310	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	86.9	77-115		%

Batch Information

Analytical Batch: VFC13120
 Analytical Method: SW8021B
 Instrument: Agilent 7890 PID/FID
 Analyst: ST
 Analytical Date/Time: 7/6/2016 9:37:00AM

Prep Batch: VXX29082
 Prep Method: SW5030B
 Prep Date/Time: 7/6/2016 6:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Print Date: 07/20/2016 8:45:17AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX29082]
 Blank Spike Lab ID: 1334838
 Date Analyzed: 07/06/2016 10:15

Spike Duplicate ID: LCSD for HBN 1163507 [VXX29082]
 Spike Duplicate Lab ID: 1334839
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1163507002, 1163507003, 1163507005, 1163507009

Results by SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	104	104	100	112	112	(80-120)	6.60	(< 20)
Ethylbenzene	100	101	101	100	104	104	(75-125)	3.50	(< 20)
o-Xylene	100	103	103	100	107	107	(80-120)	3.30	(< 20)
P & M -Xylene	200	204	102	200	212	106	(75-130)	4.10	(< 20)
Toluene	100	101	101	100	106	106	(75-120)	5.10	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50	95	95	50	106	106	(77-115)	11.10	

Batch Information

Analytical Batch: **VFC13120**
 Analytical Method: **SW8021B**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX29082**
 Prep Method: **SW5030B**
 Prep Date/Time: **07/06/2016 06:00**
 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 173846 [X/ / 0 [] L
 Blank baQID: 1334183

Matrix: Watsr (murfac, Eff., Ground)

CS for map els5:
 11] 3407003, 11] 340700] , 11] 3407007

Rs5ult5 Qy AK101

<u>Parap stsr</u>	<u>Rs5ult5</u>	<u>bOC25b</u>	<u>Db</u>	<u>Unit5</u>
Ga5olins Rangs Organic5	0.0400U	0.100	0.0310	p g2b
Surrogates				
6-Brop ofluoroQnszns (5urr)	100	40-140		%

Batch Information

Analytical Batch: XFS13191
 Analytical Msthd: AK101
 In5trup snt: Agilsnt 78[0A PID2FID
 Analy5t: mT
 Analytical Dats2Tip s: 7Z201] [:38:00PM

Prse Batch: X/ / 9[0 []
 Prse Msthd: mW4030B
 Prse Dats2Tip s: 7Z201]] :00:00AM
 Prse Initial Wt.2Xol.: 4 p b
 Prse Extract Xol: 4 p b

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX290968]
 Blank Spike La] ID: 13351b6
 Date t na]Ayez: 07d07d016 21:01

Spike D/ pliu]e ID: LCSD for HBN 1163507
 [VXX290968
 Spike D/ pliu]e La] ID: 13351b7
 s a4iM x a4er W/ rfaue(, ffE . ro/ nzG

g C for SaP pleR 1163507003(1163507006(1163507007

ceR l]R] AAK101

) araPe]er	Blank Spike W %LG			Spike D/ pliu]e W %LG			CL	c) D W]G	c) D CL
	Spike	ceR l]R	ceU W]G	Spike	ceR l]R	ceU W]G			
. aR]line c an]e Qr]aniUR	1E0	0E<7	b5	1E0	0E26	b3	W60D20 G	2E50	W 20 G

Surrogates

<BroP of/ oro] enyene W] rrG	0E500	107	107	0E500	107	107	W60D50 G	0E3	
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Batch Information

t na]Aual Ba4]h: VFC13121
 t na]Aual s e4oz: AK101
 InR]#/ P en4 Agilent 7890A PID/FID
 t na]AR] ST

) rep Ba4]h: VXX2909W
) rep s e4oz: S5 6030B
) rep Da4]d]iP e: 07/07/201W 0W00
 Spike Ini4x 4E]VolE 1E0 P %L , M]au4Vol: 5 P L
 D/ pe Ini4x 4E]VolE 1E0 P %L , M]au4Vol: 5 P L

) rin4Da4: 07d07d016 b:<5:21t s

Method Blank

Blank ID: MB for HBN 173846 [X / 9 [0] L
 Blank baQID: 1334183

Matrix: Watsr (murfac, Eff., Ground)

CS for map els5:
 11] 3407003, 11] 340700] , 11] 3407007

Rs5ult5 Qy SW8021B

<u>Parap str</u>	<u>Rs5ult5</u>	<u>bOC2b</u>	<u>Db</u>	<u>Unit5</u>
Bsnzsns	0.940U	0.400	0.140	ug2
EthylQsnzsns	0.400U	1.00	0.310	ug2
o- / ylsns	0.400U	1.00	0.310	ug2
P & M - / ylsns	1.00U	9.00	0.] 90	ug2
Tolusns	0.400U	1.00	0.310	ug2

Surrogates

1,6-DifluoroQsnzsns (5urr)	86.9	77-114		%
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Batch Information

Analytical Batch: XFS13191
 Analytical Msthd: mW8091B
 In5trup snt: Agilsnt 78[0A PID2FID
 Analy5t: mT
 Analytical Dats2Tip s: 77201] [:38:00PM

Prse Batch: X / 9 [0]
 Prse Msthd: mW4030B
 Prse Dats2Tip s: 77201]] :00:00AM
 Prse Initial Wt.2Kol.: 4 p b
 Prse Extract Xol: 4 p b

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX290968]
 Blank Spike La] ID: 13351b4
 Date Analyzed: 07/07/2016 20:42

Spike Duplicate ID: LCSD for HBN 1163507
 [VXX290968
 Spike Duplicate La] ID: 13351b5
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1163507003, 1163507006, 1163507007

Results] y SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	96.4	96	100	103	103	(b0-120)	6.50	(< 20)
Ethyl] enzene	100	93.7	94	100	94.0	94	(75-125)	0.27	(< 20)
o-Xylene	100	96.5	97	100	95.2	95	(b0-120)	1.40	(< 20)
P & M -Xylene	200	193	96	200	192	96	(75-130)	0.42	(< 20)
Toluene	100	94.4	94	100	95.9	96	(75-120)	1.60	(< 20)
Surrogates									
1,4-Difluoro] enzene (surr)	50	b4	b4	50	b6.3	b6	(77-115)	2.70	

Batch Information

Analytical Batch: **VFC13121**
 Analytical Method: **SW8021B**
 Instrument: **Agilent 7890A PID/FID**
 Analyst: **ST**

Prep Batch: **VXX29095**
 Prep Method: **SW6030B**
 Prep Date/Time: **07/07/2015 05:00**
 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1738414 & VVX 2190]
 Blank Lab ID: 1330004

Matrix: Water (Surface5Eff.5Ground)

QC for Samples:
 11430979915114309799,

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ</u>	<u>DL</u>	<u>Units</u>
Gasoline Range Organics	9.9099U	9.199	9.9319	mg
Surrogates				
, -Bromofluorobenzene (surr)	19/	09-109		%

Batch Information

Analytical Batch: [FC131/ 3
 Analytical Method: AK191
 Instrument: Agilent 7829A PID/FID
 Analyst: ST
 Analytical Date/Time: 7/8/2014 2:31:99AM

Prep Batch: [VV/ 2190
 Prep Method: SW0939B
 Prep Date/Time: 7/8/2014 4:99:99AM
 Prep Initial Wt./Vol.: 0 mL
 Prep Extract [ol: 0 mL

Print Date: 7/8/2014 8:00:00 AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX291058]
 Blank Spike La] ID: 1335559
 Date 4 nalt Aey: 07/08/2016 10:27

Spike D/ pliuatē ID: LCSD for HBN 1163507
 [VXX291058
 Spike D/ pliuatē La] ID: 1335560
 s atriM x atē r faue(, ffē . ro/ nyG

g C for SaP pleR 1163507001(116350700Q

ceR lR] t AK101

) araP etē	Blank Spike W %L G			Spike D/ pliuatē W %L G			CL	c) D W h G	c) D CL
	Spike	ceR l b	ce u W h G	Spike	ceR l b	ce u W h G			
. aR bline c an% e Or% aniuR	100	00d1	dd	100	00d10	d1	W60-120 G	d50	W 20 G

Surrogates

QBroP of/ oro] enAene W r rG	00500	107	107	00500	107	107	W50-150 G	007	
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Batch Information

4 nalt bual Babuh: VFC13123
 4 nalt bual s ethoy: AK101
 InR/ P enb Agilent 7890A PID/FID
 4 nalt Rb ST

) rep Babuh: VXX2910W
) rep s ethoy: S5 W030B
) rep DateZTiP e: 07/08/2016 06:00
 Spike Inibx hZVolE 100 P %L , MraubVol: 5 P L
 D/ pe Inibx hZVolE 100 P %L , MraubVol: 5 P L

) rinbDate: 07/20/2016 d:G5:254s

Method Blank

Blank ID: MB for HBN 1738414 & VVX 2190]
 Blank Lab ID: 1330004

Matrix: Water (Surface5Eff.5Ground)

QC for Samples:
 11430979915114309799,

Results by SW8021B

<u>Parameter</u>	<u>Results</u>	<u>LOQ</u>	<u>DL</u>	<u>Units</u>
Benzene	9.09U	9.099	9.109	ug
Ethylbenzene	9.099U	1.99	9.319	ug
o-Vylene	9.099U	1.99	9.319	ug
P & M -Vylene	1.99U	1.99	9.4/ 9	ug
Toluene	9.099U	1.99	9.319	ug

Surrogates

15 -Difluorobenzene (surr)	8.0	77-110		%
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Batch Information

Analytical Batch: [FC131/ 3
 Analytical Method: SW89/ 1B
 Instrument: Agilent 7829A PID
 Analyst: ST
 Analytical Date/Time: 7/3/2014 2:31:99AM

Prep Batch: [VV/ 2190
 Prep Method: SW0939B
 Prep Date/Time: 7/3/2014 4:99:99AM
 Prep Initial Wt./Vol.: 0 mL
 Prep Extract [ol: 0 mL

Print Date: 7/3/2014 8:04AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VXX291058]
 Blank Spike La] ID: 1335557
 Date 4 nalt Aey: 07/08/2016 10:0d

Spike D/ pliuatē ID: LCSD for HBN 1163507
 [VXX291058
 Spike D/ pliuatē La] ID: 133555d
 s abriM x ater W/ rfaue(, ffē . ro/ nyG

g C for SaP pleR 1163507001(116350700Q

ceR ltr] t SW8021B

) araP eter	Blank Spike W%LG			Spike D/ pliuatē W%LG			CL	c) D WhG	c) D CL
	Spike	ceR lb	ceU WhG	Spike	ceR lb	ceU WhG			
BenAene	100	90	90	100	90	90	W10-120 G	0	W 20 G
, tht l] enAene	100	90	90	100	90	90	W5-125 G	0	W 20 G
o-Xt lene	100	90	90	100	90	90	W10-120 G	0	W 20 G
) & s -Xt lene	200	90	90	200	90	90	W5-130 G	0	W 20 G
Tol/ ene	100	90	90	100	90	90	W5-120 G	0	W 20 G
Surrogates									
1(QDifl/ oro] enAene W rrG	50	90	90	50	90	90	W7-115 G	0	W 20 G

Batch Information

4 nalt bual Babuh: VFC13123
 4 nalt bual s ethoy: SW8021B
 InRr/ P enb Agilent 7890A PID/FID
 4 nalt Rb ST

) rep Babuh: VXX29105
) rep s ethoy: SW5030B
) rep DateZiPe: 07/08/2016 06:00
 Spike Inibx tZ/volE 100 / %L , MraubVol: 5 P L
 D/ pe Inibx tZ/volE 100 / %L , MraubVol: 5 P L

) rinbDate: 07/20/2016 d:G:274s

Method Blank

Blank ID: MB for HBN 1738260 [XXX/35705]
 Blank Lab ID: 1334218

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1163507001, 1163507002, 1163507003, 1163507004, 1163507005, 1163507006, 1163507007

Results by AK102

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	86	60-120		%

Batch Information

Analytical Batch: XFC12497
 Analytical Method: AK102
 Instrument: Agilent 7890B R
 Analyst: S.G
 Analytical Date/Time: 7/6/2016 12:25:00AM

Prep Batch: XXX35705
 Prep Method: SW3520C
 Prep Date/Time: 7/5/2016 8:30:58AM
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:28AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VVV35705X
 Blank Spike La2 ID: 133981]
 Date 4 nalt Aey: 07/06/2016 00:35

Spike Ddpli/ atē ID: LCSD for HBN 1163507
 [VVV35705X
 Spike Ddpli/ atē La2 ID: 1339880
 Rabris: Mater xSdrfa/ eV ff, WE rodny.

%C for Sa) plec: 1163507001M 163507008M 163507003M 163507009M 163507005M 163507006M 163507007

u ecdlē 2t AK102

Gara) etē	Blank Spike x) mL			Spike Ddpli/ atē x) mL			CL	uGD xP.	uGD CL
	Spike	u ecdlē	u e/ xP.	Spike	u ecdlē	u e/ xP.			
Diecel u anre g rmani/ c	80	81,1	105	80	88,7	113	x75Q85 .	7,90	x080 .
Surrogates									
5a 4 nyroctane xcdrr.	0,9	108	108	0,9	111	111	x60Q80 .	-,90	

Batch Information

4 nalt b/ al Bab' <: XFC12497
 4 nalt b/ al Reb'oy: AK102
 Inčrd) enb Agilent 7890B R
 4 nalt cb S.G

Grep Bab' <: XXX35705
 Grep Reb'oy: SW3520C
 Grep Datēzhi) e: 07/05/2016 08:30
 Spike InibMbzTol,: 80) mL (sbra/ bTol: 1) L
 Ddpe InibMbzTol,: 80) mL (sbra/ bTol: 1) L

GrinbDatē: 07/06/2016 - :95:304R

Method Blank

Blank ID: MB for HBN 1738260 [XXX/35705]
 Blank Lab ID: 1334218

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1163507001, 1163507002, 1163507003, 1163507004, 1163507005, 1163507006, 1163507007

Results by AK103

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Residual Range Organics	0.250U	0.500	0.150	mg/L
Surrogates				
nA riacontaneAt62 (surr)	8h	60A20		%

Batch Information

Fanalytical Batc9: XKC124h7
 Fanalytical Met9od: FT103
 Instrument: Fgilent 78h0B R
 Fnalyst: S.G
 Fanalytical Date/- ime: 7/6/2016 12:25:00FM

Prep Batc9: XXX35705
 Prep Met9od: SW3520C
 Prep Date/- ime: 7/5/2016 8:30:58FM
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Print Date: 07/20/2016 8:45:31FM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1163507 [VVV35705X
 Blank Spike La2 ID: 133981]
 Date 4 nalt Aey: 07/06/2016 00:35

Spike Ddpli/ atē ID: LCSD for HBN 1163507
 [VVV35705X
 Spike Ddpli/ atē La2 ID: 1339880
 Rabris: Mater xSdrfa/ eW ff, WErodny.

%C for Sa) plec: 1163507001M 163507008M 163507003M 163507009M 163507005M 163507006M 163507007

u ecdblē 2t AK102

Gara) etē u ecyidal u anne g rmani/ c	Blank Spike x) mL			Spike Ddpli/ atē x) mL			CL	uGD xP.	uGD CL
	Spike	u ecdbl	ue/ xP.	Spike	u ecdbl	ue/ xP.			
nGria/ ontaneQ68 xcdrr.	80	81,7	10]	80	83,6	11Q	x60Q80 .	Q30	x 80 .
Surrogates									
	0,9	QQ3	QQ	0,9]7,Q]Q	x60Q80 .	10,10	

Batch Information

4 nalt bi/ al Bab' h: XFC14978
 4 nalt bi/ al Rehoy: AK102
 Inctrd) enb Agilent 8R70B .
 4 nalt cb SG

Grep Bab' h: XXX25805
 Grep Rehoy: SW2540C
 Grep Datez(i) e: 08/05/4016 0R20
 Spike InibMbzTol,: 80) mL (sbra/ bTol: 1) L
 Ddpe InibMbzTol,: 80) mL (sbra/ bTol: 1) L



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CLIENT: BGES, Inc. **PHONE NO:** 644-2900

PROJECT NAME: Jayne Martin **PWSID/ PERMIT#:**

REPORTS TO: Jayne **E-MAIL:** jayne@bgesinc.com

INVOICE TO: BGES **QUOTE#:** OPEN **P.O.#:**

Section 1

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	Type	#	Section 3	Section 4	DOD Project?	Yes	No	REMARKS/ LOC ID
1	A-E MW3-0628	6/28/16	13:42	Water	G	5	GR0/BTEX	HCL	AK101/80218	✓		
2	A-E MW5-0627	6/27/16	16:55	Water	G	5		HCL	AK102/1103	✓		VOCs 524.2
3	A-E MW8-0627	6/27/16	14:28	Water	G	5		HCL	DR0/RRO	✓		
4	A-E MW9-0628	6/28/16	12:03	Water	G	5				✓		
5	A-E MW12-0627	6/27/16	11:05	Water	G	5				✓		
6	A-E MW14-0627	6/27/16	18:55	Water	G	5				✓		
7	A-E MW15-0627	6/29/16	19:02	Water	G	5				✓		
8	FW-0628	6/28/16	14:18	Water	G	3				✓		
9	Trip Blank	-	-	Water	-	3						
10	Trip Blank	-	-	Water	-	3						

Section 3 **Section 4** **DOD Project?** **Yes** **No** **Data Deliverable Requirements:**

Section 5

Relinquished By: (1) *[Signature]* **Date:** 6-28-16 14:39 **Received By:**

Relinquished By: (2) *[Signature]* **Date:** **Received By:**

Relinquished By: (3) **Date:** **Received By:**

Relinquished By: (4) **Date:** 6-28-16 14:39 **Received For Laboratory By:** *[Signature]*

Temp Blank °C: 1.1 #11 **Chain of Custody Seal: (Circle)** **INTACT** **BROKEN** **ABSENT**

Requested Turnaround Time and/or Special Instructions: **Stended 10 day**

Cooler ID: **Level 2**

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Preservative

Page 1 of 1

http://www.sgs.com/terms-and-conditions

hand delivered

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F083-KIT_Request_and_COC_Templates-Blank Revised 2013-03-24

[] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301

[] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557



e-SAMPLE RECEIPT FORM

1163507



Review Criteria	Y/N (yes/no)	Exceptions Noted below
Were Custody Seals intact? Note # & location	<input type="checkbox"/>	<input checked="" type="checkbox"/> exemption permitted if sampler hand carries/delivers.
COC accompanied samples?	<input checked="" type="checkbox"/>	Absent
<input type="checkbox"/> **exemption permitted if chilled & collected <8hrs ago or chilling not required (i.e., waste, oil)	<input checked="" type="checkbox"/>	
Temperature blank compliant* (i.e., 0-6 °C after CF)?	<input checked="" type="checkbox"/>	Cooler ID: 1 @ 1.1 °C Therm ID: 11
	<input checked="" type="checkbox"/>	Cooler ID: @ °C Therm ID:
	<input checked="" type="checkbox"/>	Cooler ID: @ °C Therm ID:
	<input checked="" type="checkbox"/>	Cooler ID: @ °C Therm ID:
	<input checked="" type="checkbox"/>	Cooler ID: @ °C Therm ID:
*If >6°C, were samples collected <8 hours ago?	<input checked="" type="checkbox"/>	
If <0°C, were sample containers ice free?	<input checked="" type="checkbox"/>	
If samples received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Note: Refer to form F-083 "Sample Guide" for hold times.		
Were samples received within hold time?	<input checked="" type="checkbox"/>	
Do samples match COC** (i.e., sample IDs, dates/times collected)?	<input checked="" type="checkbox"/>	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous?	<input checked="" type="checkbox"/>	
Were proper containers (type/mass/volume/preservative***) used?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ***Exemption permitted for metals (e.g.200.8/6020A).
IF APPLICABLE		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	<input checked="" type="checkbox"/>	
Were all VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	<input checked="" type="checkbox"/>	Sample 2C, 8B-C, and trip blanks 9B and C all had bubbles >6mm
Were all soil VOAs field extracted with MeOH+BFB?	<input checked="" type="checkbox"/>	
Note to Client: Any "no" answer above indicates non-compliance with standard procedures and may impact data quality.		
Additional notes (if applicable):		



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1163507001-A	HCL to pH < 2	OK	1163507010-B	HCL to pH < 2	OK
1163507001-B	HCL to pH < 2	OK	1163507010-C	HCL to pH < 2	OK
1163507001-C	HCL to pH < 2	OK			
1163507001-D	HCL to pH < 2	OK			
1163507001-E	HCL to pH < 2	OK			
1163507002-A	HCL to pH < 2	OK			
1163507002-B	HCL to pH < 2	OK			
1163507002-C	HCL to pH < 2	OK BU			
1163507002-D	HCL to pH < 2	OK			
1163507002-E	HCL to pH < 2	OK			
1163507003-A	HCL to pH < 2	OK			
1163507003-B	HCL to pH < 2	OK			
1163507003-C	HCL to pH < 2	OK			
1163507003-D	HCL to pH < 2	OK			
1163507003-E	HCL to pH < 2	OK			
1163507004-A	HCL to pH < 2	OK			
1163507004-B	HCL to pH < 2	OK			
1163507004-C	HCL to pH < 2	OK			
1163507004-D	HCL to pH < 2	OK			
1163507004-E	HCL to pH < 2	OK			
1163507005-A	HCL to pH < 2	OK			
1163507005-B	HCL to pH < 2	OK			
1163507005-C	HCL to pH < 2	OK			
1163507005-D	HCL to pH < 2	OK			
1163507005-E	HCL to pH < 2	OK			
1163507006-A	HCL to pH < 2	OK			
1163507006-B	HCL to pH < 2	OK			
1163507006-C	HCL to pH < 2	OK			
1163507006-D	HCL to pH < 2	OK			
1163507006-E	HCL to pH < 2	OK			
1163507007-A	HCL to pH < 2	OK			
1163507007-B	HCL to pH < 2	OK			
1163507007-C	HCL to pH < 2	OK			
1163507007-D	HCL to pH < 2	OK			
1163507007-E	HCL to pH < 2	OK			
1163507008-A	HCL to pH < 2	OK			
1163507008-B	HCL to pH < 2	OK BU			
1163507008-C	HCL to pH < 2	OK BU			
1163507009-A	HCL to pH < 2	OK			
1163507009-B	HCL to pH < 2	OK BU			
1163507009-C	HCL to pH < 2	OK BU vlp			
1163507010-A	HCL to pH < 2	OK			

Container Id

Preservative

Container
Condition

Container Id

Preservative

Container
Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM- The container was received damaged.

FR- The container was received frozen and not usable for Bacteria or BOD analyses.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

APPENDIX C
LABORATORY ANALYTICAL DATA QUALITY CONTROL CHECKLIST

Laboratory Data Review Checklist

Completed by: **William Schmaltz**

Title: **Environmental Scientist** Date: **February 7, 2017**

CS Report Name: **Groundwater Monitoring Report (June 2017)** Report Date: **February 2017**

Consultant Firm: **BGES, Inc.**

Laboratory Name: **SGS, North America Inc.** Laboratory Report Number: **1163507**

ADEC File Number: **2100.26.252** ADEC RecKey Number: **N/A**

1. Laboratory

- a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
 Yes No NA (Please explain.) 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 NA (Please explain.) Comments:

Samples were not transferred to a network laboratory.

2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)?
 Yes No NA (Please explain.) Comments:

- b. Correct analyses requested?
 Yes No NA (Please explain.) 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 NA (Please explain.) Comments:

The temperature of the sample cooler that contained the water samples was measured at the laboratory at the time of receipt to be 1.1 degrees Celsius; which is within the prescribed optimal range of 0-6 degrees Celsius.

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

Yes No NA (Please explain.) Comments:

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

Yes No NA (Please explain.) Comments:

No irregularities were noted by the laboratory

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 NA (Please explain.) Comments:

e. Data quality or usability affected? (Please explain.)

Comments:

N/A

4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain.) Comments:

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

Yes No NA (Please explain.) Comments:

The recovery of surrogate 1,4-difluorobenzene associated with the analysis of BTEX within Sample MW8-0627 exceeded the laboratory acceptance limit. This indicates a potential for the reported concentrations of BTEX within this sample to be biased high. For this reason, detectable concentrations of these results are qualified with a “J” in Table 2, and should be considered estimates. However, because benzene was detected at a concentration more than one order of magnitude above the ADEC cleanup criterion, and because the reported concentrations of other detectable analytes within this sample were below the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene within the laboratory control spike duplicate associated with Sample FW-0628 and its associated trip blank exceeded the laboratory QC acceptance range. This indicates a potential for the reported concentration of these analytes to be biased high in the project sample. However, because none of these analytes were detected above their LOQ, and because the LOQs are below their respective ADEC cleanup criteria; it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

c. Were all corrective actions documented?
 Yes No NA (Please explain.)

Comments:

See 4b, above.

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

See 4b, above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?
 Yes No NA (Please explain.)

Comments:

b. All applicable holding times met?
 Yes No NA (Please explain.)

Comments:

c. All soils reported on a dry weight basis?
Yes No NA (Please explain.)

Comments:

No soil samples were analyzed for this laboratory work order.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?
 Yes No NA (Please explain.)

Comments:

e. Data quality or usability affected?

Comments:

N/A

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?
 Yes No NA (Please explain.)

Comments:

ii. All method blank results less than PQL?
 Yes No NA (Please explain.)

Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

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

Yes No NA (Please explain.)

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

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 NA (Please explain.)

Comments:

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

Yes No NA (Please explain.)

Comments:

None of the water samples were analyzed for metals/inorganic for this laboratory work order.

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 NA (Please explain.)

Comments:

See 4b, above.

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 NA (Please explain.)

Comments:

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

Comments:

N/A

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

Yes No NA (Please explain.) Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

N/A

c. Surrogates – Organics Only

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

Yes No NA (Please explain.) 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 NA (Please explain.) Comments:

See 4b, above.

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

Yes No NA (Please explain.) Comments:

See 4b, above.

iv. Data quality or usability affected? (Use the comment box to explain.)

Yes No NA (Please explain.) Comments:

See 4b, above.

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

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No NA (Please explain.) Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No NA (Please explain.) Comments:

All samples for volatile analysis were transported in the same cooler.

iii. All results less than PQL?

Yes No NA (Please explain.)

Comments:

iv. If above PQL, what samples are affected?

Comments:

N/A

v. Data quality or usability affected? (Please explain.)

Comments:

N/A

e. Field Duplicate

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

Yes No NA (Please explain.)

Comments:

ii. Submitted blind to lab?

Yes No NA (Please explain.)

Comments:

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 NA (Please explain.)

Comments:

Sample MW-15 was a duplicate of Sample MW-14, and was collected and analyzed in order to facilitate evaluation of field sampling precision. Relative percent differences between the reported concentrations of several analytes for the original and duplicate samples were calculated, and these RPDs ranged between 1 percent and 11 percent, which are all below the recommended acceptance limit of 30 percent. This suggests that good field sampling precision was achieved during the collection of the groundwater samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Yes No NA (Please explain.)

Comments:

f. Decontamination or Equipment Blank (If not used explain why).

Yes No NA (Please explain.) Comments:

A decontamination or equipment blank was not collected as part of this project.

i. All results less than PQL?

Yes No NA (Please explain.) Comments:

A decontamination or equipment blank was not collected as part of this project.

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? (Please explain.)

Comments:

N/A

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

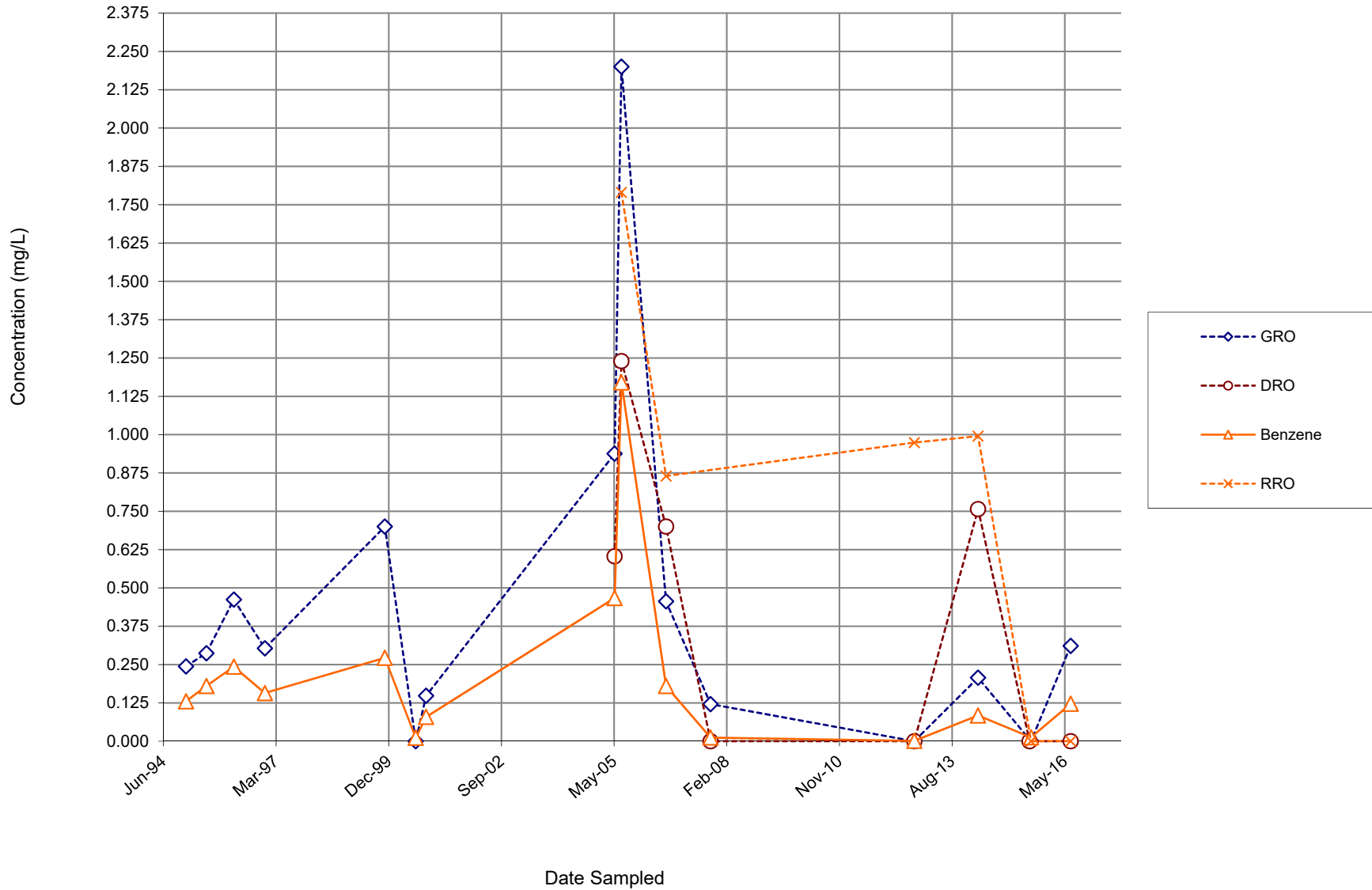
a. Defined and appropriate?

Yes No NA (Please explain.) Comments:

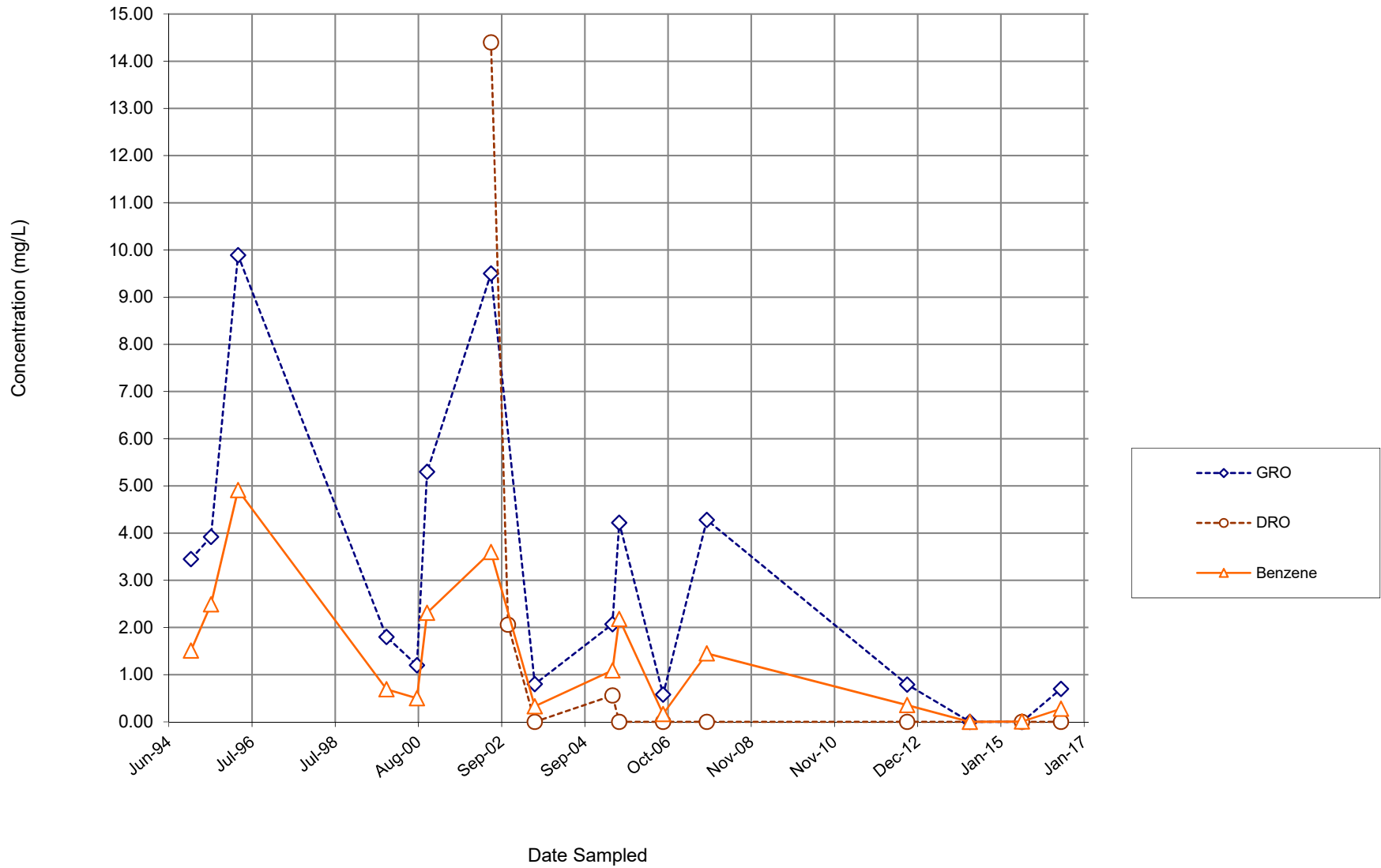
Not applicable for this project.

APPENDIX D
GRAPHS OF HISTORICAL WATER QUALITY DATA

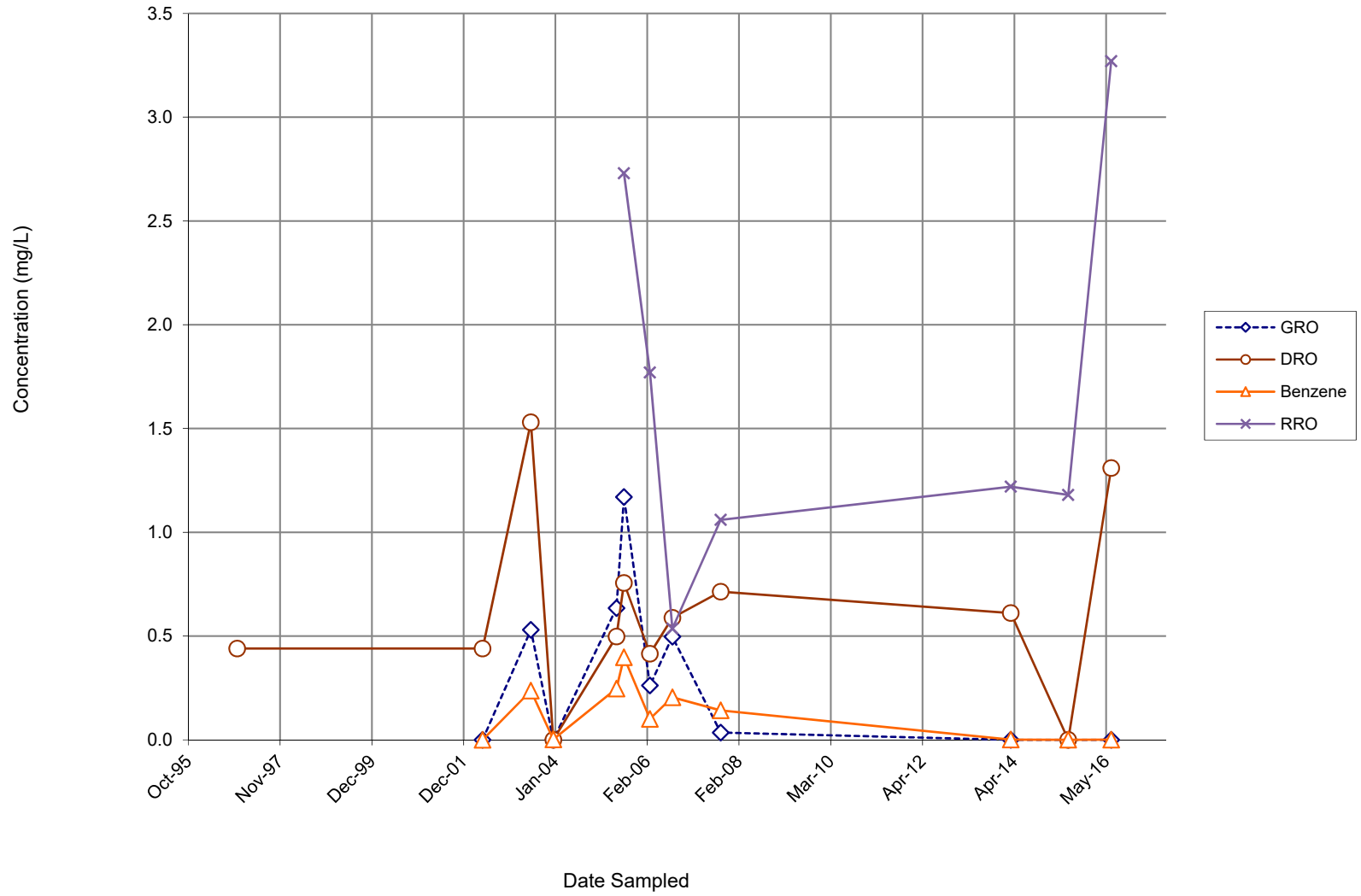
Historical Contaminant Concentration Trends MW-05



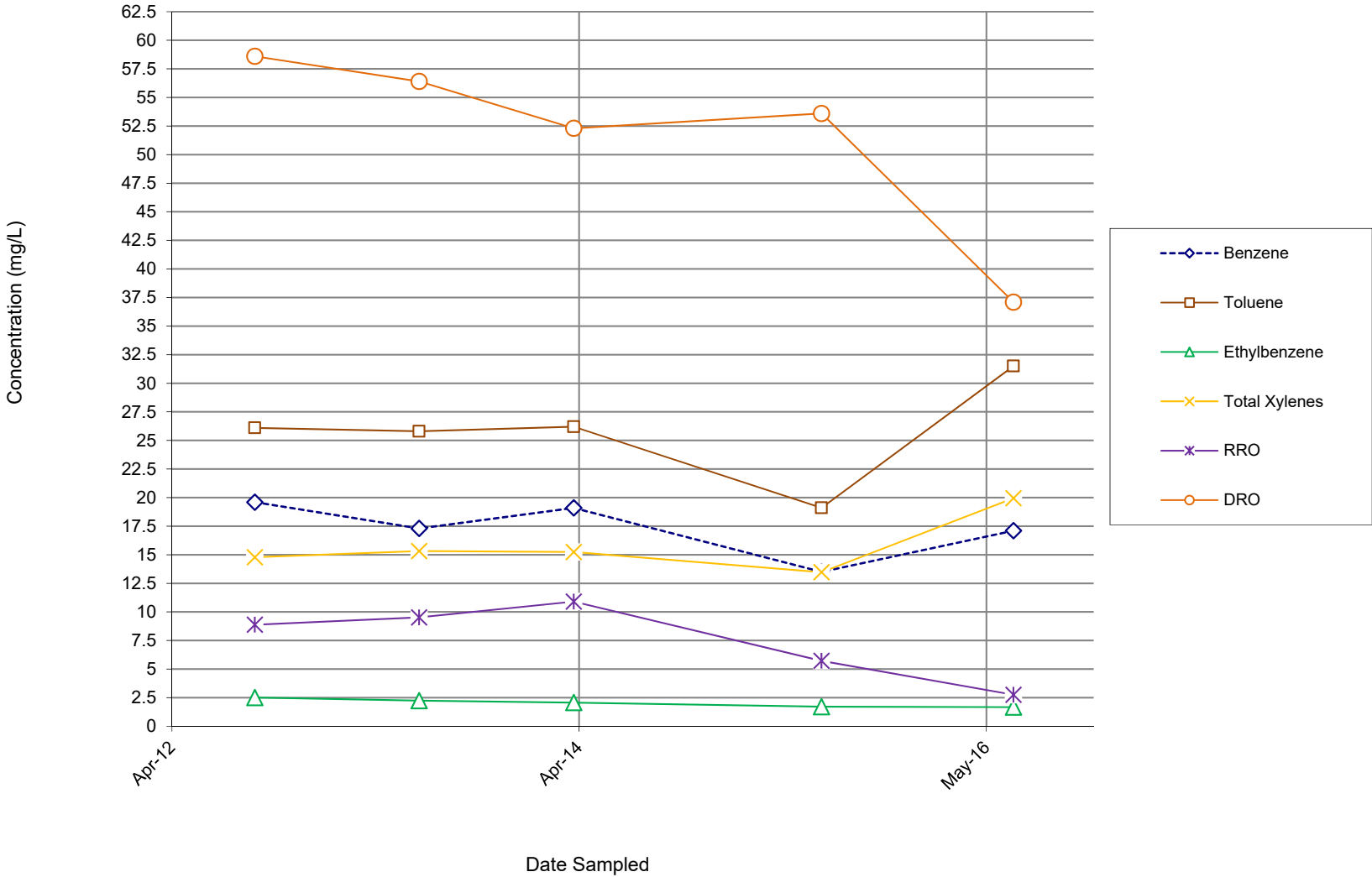
Historical Contaminant Concentration Trends MW-08



Historical Contaminant Concentration Trends MW-12



Historical Contaminant Concentration Trends MW-14



Historical Contaminant Concentration Trends MW-14

