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January 12, 2015 R&M No. 2186.01

Louis Howard
Alaska Department of Environmental Conservation
Contaminated Sites Program
555 Cordova Street
Anchorage, Alaska 99501

RE: 2014 Annual Sampling Report
Former Defense Fuel Support Point – Anchorage
ADEC File #2102.38.021 (Record Key # 1988-21-X1-119-01)
Anchorage, Alaska

Dear Mr. Howard:

R&M Consultants, Inc. (R&M) has recently completed the annual sampling event for the former Defense Fuel Support Point - Anchorage (DFSP-A) site located within the Port of Anchorage (Port). Sampling activities were based on recommendations outlined in the *Updated Long-Term Monitoring Plan, April 28, 2008* (2008 LTMP), the *Record of Decision for Cleanup, Defense Fuel Support Point-Anchorage, U.S. Defense Energy Support Center, February 18, 2003* (2003 ROD) issued by the Alaska Department of Environmental Conservation (ADEC) in cooperation with the Defense Energy Support Center and subsequent communications with ADEC, as noted within this report. A total of eight monitoring wells (MW) and two surface water sampling locations (SS) were sampled. This most recent phase of sampling was conducted to further quantify existing contamination at the site and to determine the extent of natural attenuation that is taking place.

Enclosed please find the results of the 2014 DFSP-A sampling activities, which were conducted on August 21-22, 2014. The eight wells that were sampled are designated MW2-R, MW4-R, MW15-R, MW22, MW23, MW25A, MW25B, and MW25C; surface water sample locations are designated SS12 and SS14 (Attachment B, Figure 1). Water samples taken from the monitoring wells and surface locations were submitted to TestAmerica for laboratory analyses on August 22, 2014.

BACKGROUND

The former DFSP-A is located in the southeast corner of the Port within the Municipality of Anchorage, Alaska (Section 7, Township 13 North, Range 3 West, USGS Quadrangle Anchorage A-8 NW, Seward Meridian). Property ownership was transferred from the Department of the Army to the Port in April, 2011.

The DFSP-A served as a bulk fuel storage and distribution facility from 1942 until 1996. Several releases of diesel, gasoline, and aviation fuels were documented at the DFSP-A between 1960 and 1989, and the DFSP-A is listed in ADEC's Contaminated Sites Database under File #2102.38.021 (Record Key # 1988-21-X1-119-01).

GROUNDWATER FLOW DIRECTION

Surveyed monitoring well elevations from August 2011 were used to determine current groundwater elevations. The water levels in the wells were measured prior to sampling to allow determination of the approximate groundwater elevation and flow direction (Attachment A, Table 1). The interpreted direction of groundwater flow is generally to the west and northwest (Attachment B, Figure 1).

MONITORING WELL SAMPLING AND OBSERVATIONS

A submersible pump (Proactive stainless steel hurricane pump) and Teflon-lined tubing were utilized for both purging and sample collection. All monitoring wells were visually inspected prior to sampling. Locks installed in 2011 were intact and all monitoring wells appeared to be in relatively good condition, with the exception of monitoring well MW2R. Frost jacking forced the well casing up approximately one inch above grade and pushed off the monitoring well cover; however, the well cap was intact and there was no indication that surface water had been infiltrating the subsurface. The casing was trimmed and the cover was reinstalled after sampling.

All groundwater sampling was performed in accordance with the procedures presented in ADEC's *Draft Field Sampling Guidance* (May, 2010). Prior to purging and sampling, the groundwater levels and well depths for each monitoring well were measured with a water level indicator precise to 0.01 feet. The water level indicator was decontaminated between wells by soaking in a diluted phosphate solution (Alconox) and rinsing first with potable then deionized water. Water levels were compared with 2011 survey elevations and are presented in Table 1 (Attachment A). No free product was encountered in the wells; however, a hydrocarbon sheen and odor was observed at monitoring wells MW15-R, MW25A, MW25B, and MW25C. Field notes and monitoring well sampling logs are included as Attachment D.

Each monitoring well was purged up to three well volumes – unless the well was purged dry – utilizing a submersible pump and 3/8" Teflon-lined tubing. A new section of tubing was used for each well and was disposed of after sampling was complete. Purge water was collected in 5-gallon buckets and transported to 55-gallon drums staged near monitoring well MW15-R until laboratory analysis was complete. Water that exceeds the site-specific ADEC cleanup levels was disposed of by Emerald Services, Inc. Purge water determined to fall below cleanup levels was disposed of via on-site surface spillage.

Groundwater samples were submitted to TestAmerica for laboratory analyses of the following:

- Gasoline Range Organics (GRO) by Alaska Method 101.
- Diesel Range Organics (DRO) by Alaska Method 102.
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA 8260B.

Analysis for ethylene dibromide (EDB) and 1,2-Dichloroethane (1,2- DCA) was not included in the 2014 groundwater monitoring effort as the 2013 analytical results were non-detect for these constituents.

SURFACE WATER SAMPLING AND OBSERVATIONS

The 2003 ROD identifies three surface water sampling locations at the former DFSP-A. Surface water no longer flows through the former DFSP-A site near SS04. As a result, SS04 is no longer a viable surface water sample location and has been deleted from this sampling program. ADEC concurred with its deletion via e-mail on August 30, 2011. Surface water sampling locations SS12 and SS14 were identified and sampled in accordance with the 2008 LTMP on August 22, 2014 (Attachment D). A slight sheen but no odor was observed at SS14; a heavy sheen and strong odor was noted at SS12. Most of the vegetation surrounding these drainage ditches was cleared in 2013.

Surface water samples were submitted to TestAmerica for laboratory analyses of the following:

- BTEX by EPA 8260C; the sum of the BTEX constituents provides the total aromatic hydrocarbons (TAH) value for the sample.
- Polynuclear aromatic hydrocarbons (PAH) by EPA Method 8270D; this value added to the TAH provides the total aqueous hydrocarbons (TAqH) value for the sample.

LABORATORY ANALYTICAL RESULTS

All water samples were submitted to TestAmerica on August 22, 2014. TestAmerica is an Environmental Protection Agency (EPA) and ADEC approved laboratory. Standard Chain-of-Custody procedures for laboratory samples were followed. The temperature blanks included in each of the sample coolers registered at 4°C ± 2°C upon submittal to TestAmerica, indicating that all samples were kept within the appropriate temperature limits during transport. Laboratory analytical results were received on September 10, 2014 (Attachment C). Groundwater laboratory analytical results are presented in Table 2 (Attachment A).

Benzene was detected in groundwater collected from monitoring well MW15-R at 0.406 mg/L, which exceeds site-specific cleanup standards. Detected levels of benzene in groundwater from monitoring wells MW4-R, MW25A, MW25B, and MW25C were below established cleanup levels. Ethylbenze and total xylenes were also detected below cleanup levels in monitoring wells MW23 (total xylenes only), MW15-R, MW25A, MW25B, and MW25C. Toluene was detected below cleanup levels in groundwater from monitoring well MW-15R and MW25C.

Detected levels of GRO were below the ADEC site-specific cleanup standard of 13.0 mg/L in groundwater collected from monitoring wells MW15-R, MW22, MW25A, MW25B, and MW25C. GRO was not detected in the remaining wells.

DRO was detected above clean up levels in groundwater collected from monitoring well MW25B. Detected levels of DRO were below the ADEC site-specific cleanup standard of 15.0 mg/L in groundwater collected from monitoring wells MW2-R, MW4-R, MW15-R, MW22, MW23, MW25A, and MW25C.

Laboratory analysis detected TAH and TAqH below ADEC site-specific cleanup levels in water from surface water sample location SS12 at 0.00103 mg/L and 0.00120 mg/L, respectively. Water collected from surface water sample location SS14 was non-detect for TAH and TAqH.

QUALITY ASSURANCE/ QUALITY CONTROL

Duplicate samples were obtained at a rate of one per ten samples. One duplicate groundwater sample was collected from monitoring well MW25B on August 21, 2014 and submitted in the same manner as the regular samples; the duplicate sample was labeled DFSPA-MW25BD. Analytical results for contaminants were in relatively good agreement between the normal and the duplicate groundwater samples, with the exception of DRO (Attachment C).

One trip blank was prepared by the laboratory, taken to the site, and handled like all other samples. No GRO or BTEX constituents were detected in the trip blank, indicating that handling and ambient conditions did not contribute to levels of contamination detected in the samples. Method blanks were prepared and analyzed by TestAmerica for all parameters. No analytes were detected at the practical quantitation limit (PQL) for any method blank parameter. A completed laboratory data review checklist and is included with this report (Attachment C).

SUMMARY AND CONCLUSIONS

Current groundwater sampling results continue to show a general decline in contamination levels with fluctuations among some contaminants. Most detectable analytical results fall well below site-specific cleanup levels with the exception of MW15-R where benzene levels continue to exceed cleanup levels at 0.406 mg/L. DRO levels at MW25B continue to fluctuate with current analytical results above cleanup levels. The 2014 results, however, are still well below 2012 sampling results (110 mg/L). DRO levels in MW25A and MW25C are below cleanup levels for the second continuous year.

Analytical results from the surface sampling locations have been variable over the past years with TAH and TAqH results typically exceeding cleanup levels at SS14. Analytical results from 2013 for SS14 exceeded cleanup levels; however current TAH and TAqH analytical results for SS12 and SS14 were below cleanup levels, as they were in 2012.

Based on the information presented herein, it is recommended that the annual groundwater sampling regimen continue for all monitoring wells at the DFSP-A to include analysis for GRO, DRO, and BTEX. Continued surface water sampling and analysis for TAH and TAqH is also recommended for SS12 and SS14.

CLOSURE

This brief letter report has been prepared for the exclusive use of the Port of Anchorage and their representatives in the study of this site. The findings presented within this report are based on limited sampling and laboratory analyses conducted by R&M. Since opinions of conditions prevailing on a particular site must be based on the work authorized by the client, all findings/data must be construed as representative of the site at a particular moment in time and the result of services performed within the scope, limitations, and cost of the work requested. Changes in the conditions of this site may occur with the passage of time and may be due to natural processes or the works of man. In addition, changes in government codes, either State or Federal regulations or laws, may occur. Due to such changes, which are beyond our control, observations and recommendations applicable to this site may need to be revised wholly or in part from time to time.

R&M Consultants, Inc. performed this work in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions. No warranty, express or implied, beyond exercise of reasonable care and professional diligence, is made. Should you require additional information regarding the investigation or this report, please contact us.

Sincerely,

R&M CONSULTANTS, INC.

Kristi M. McLean, LEED AP BD+C
Group Manager – Environmental Services

Attachment A: Tables
Attachment B: Figure 1
Attachment C: Analytical Results and Laboratory Data Review Checklist
Attachment D: Field Notes and Sampling Logs

cc: Sharen Walsh, P.E., Port of Anchorage

ATTACHMENT A

TABLES

Groundwater Elevations	**TABLE 1**
Laboratory Analytical Results, Groundwater Samples, August 21, 2014	**TABLE 2**
Laboratory Analytical Results, Surface Water Samples, August 22, 2014	**TABLE 3**

TABLE 1
GROUNDWATER ELEVATIONS

Monitoring Well ID	Date	Top of Casing Elevation (feet) [1]	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW2-R	8/21/14	36.87	4.12	33.75 [2]
MW4-R	8/21/14	44.07	3.95	40.12
MW15-R	8/21/14	38.02	3.40	34.62
MW22	8/21/14	84.98	3.11	81.87
MW23	8/21/14	38.75	4.20	34.55
MW25A	8/21/14	96.78	44.59	52.19
MW25B	8/21/14	93.69	41.12	52.57
MW25C	8/21/14	95.81	41.62	54.19

[1] Monitoring wells were surveyed on August 26, 2011. Elevations are referenced to mean lower low water, based on U.S. Coast & Geodetic Benchmark "Tidal 16."
[2] Groundwater elevation estimated based on above-grade location of casing at time of sampling.

TABLE 2
LABORATORY ANALYTICAL RESULTS
GROUNDWATER SAMPLES
AUGUST 21, 2014

Monitoring Well ID	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	GRO (mg/L)	DRO (mg/L)
Cleanup Levels [1]	0.05	10.0	7.0	100.0	13.0	15.0
MW2-R	ND	ND	ND	ND	ND	0.616
MW4-R	0.00344	ND	ND	ND	ND	2.72
MW15-R	**0.406**	0.00961	0.342	0.369	4.21	4.59
MW22	ND	ND	ND	ND	1.93	0.393
MW23	ND	ND	ND	0.00234	ND	1.33
MW25A	0.0040	ND	0.0418	0.0622	1.69	5.32
MW25B	0.0134	ND	0.116	0.127	1.85	**19.0**
MW25B[2]	0.0136	ND	0.119	0.129	1.83	**31.6**
MW25C	0.0192	0.00131	0.0688	0.228	2.16	3.30

[1] Site-specific cleanup levels for BTEX, GRO, and DRO are specified in the 2003 Record of Decision for Cleanup.

[2] Duplicate sample collected from MW25B.

NOTE: Shaded cells indicate that analyte was detected above cleanup levels.

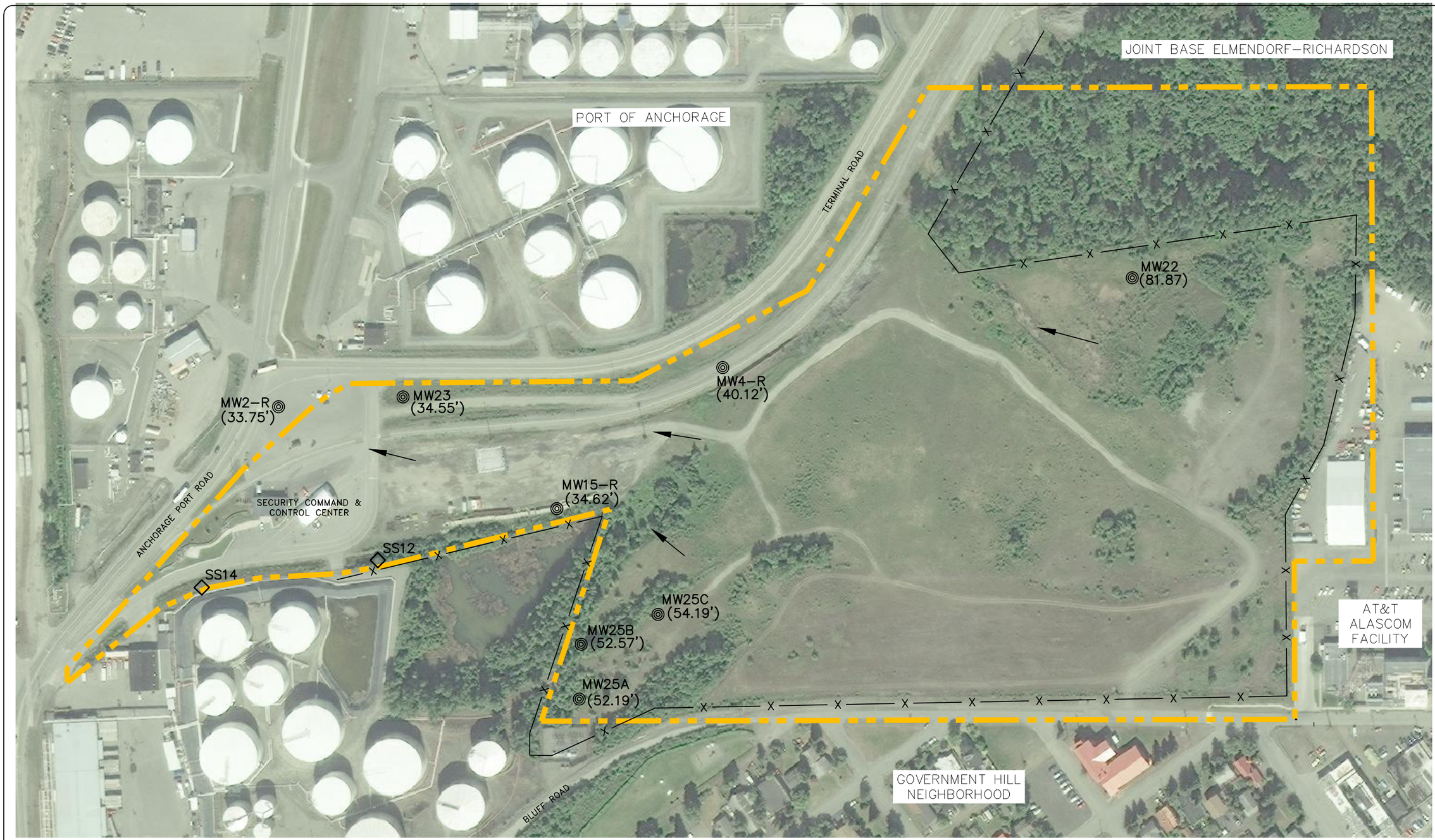
TABLE 3
LABORATORY ANALYTICAL RESULTS
SURFACE WATER SAMPLES
AUGUST 22, 2014

Surface Water Sample Site	TAH (mg/L)	PAH (mg/L)	TAqH (mg/L)
Cleanup Levels [(1)]	0.010	-	0.015
SS12	0.00103	0.000169	0.00120
SS14	ND	ND	ND

[(1)] Site-specific cleanup levels as specified in the 2003 Record of Decision for Cleanup

ATTACHMENT B

Groundwater Monitoring Wells and Surface Water Sample Locations **FIGURE 1**



LEGEND

- MONITORING WELL LOCATION (MW)
- SURFACE WATER SAMPLE LOCATION (SS)
- FENCE
- SITE BOUNDARY (APPROX)
- ( ) GROUNDWATER ELEVATION IN FEET (REFERENCED TO MEAN LOWER LOW WATER, BASED ON U.S. COAST & GEODETIC BENCHMARK "TIDAL 16")
- APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE
50 0 50 100 200
(IN FEET)

2010 AERIAL PHOTOGRAPHY BY AERO METRIC

FB: N/A
GRID: N/A
PROJ.NO: 2186.01.09
FIGURE: 1

FORMER DEFENSE FUEL SUPPORT POINT
ANCHORAGE, ALASKA

MONITORING WELL SITE MAP

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DWN: P.M.H.
CK'D: K.M.M.
DATE: DEC 2014
SCALE: AS SHOWN

Plotted 12/12/2014 2:35 PM by Patrick Hewlett
Z:\project\2186.01 MOA Port Of Anchorage 2014 Term Contract Year 1\Earth\Task 9 – Tract J\ACAD\2014 Annual Sampling – FIG 1.dwg

ATTACHMENT C

ANALYTICAL RESULTS

TestAmerica Inc., Laboratory Data Report

Laboratory Data Review Checklist

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Anchorage
2000 West International Airport Road
Suite A10
Anchorage, AK 99502-1119
Tel: (907)563-9200

TestAmerica Job ID: 230-262-1
Client Project/Site: Port of Anchorage Water Sampling DFSPA
Revision: 2

For:
R&M Consultants
9101 Vanguard Drive
Anchorage, Alaska 99507

Attn: Kristi McLean

Authorized for release by:
12/17/2014 5:07:31 PM

Steve Crupi, Project Manager II
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 230-262-1

Laboratory: TestAmerica Anchorage

Narrative

Job Narrative
230-262-1

Report Comment
This report is updated to add a flag to the DRO result for MW2R, associated with low recovering LCS and LCSD results. Additionally, the narrative is revised to remove the comment about a high biased GRO CCV for analytical batch 1017. This batch does not apply to any samples in this project. - Steve Crupi, 12/17/14

Receipt
The samples were received on 8/22/2014 11:57 AM, arriving in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.1º C and 5.3º C.

Except:

One vial for sample DFSPA-MW25A was received broken. Five vials were received intact and will be used for the required analyses.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method AK101: The continuing calibration verification (CCV) associated with analytical batch 1017 recovered above the upper control limit for Gasoline Range Organics (GRO). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Only the method blank, LCS, and LCSD samples are associated with this CCV.

Method 8260B: The continuing calibration verification (CCV) associated with analytical batch 1036 recovered outside acceptance criteria, low biased, for Acetone. The % drift was calculated at -33.0%, whereas the limit is -25.0%. Only sample DFSPA-MW15r (230-262-7) and the laboratory duplicate of that sample are associated with this outlier. Reporting an acetone result for this sample required a five-fold dilution step prior to analysis, yielding a result of 157 ug/L. The sample was not reanalyzed because of this elevated concentration.

The bromomethane RPD for the LCS/LCSD set in analytical batch 1036 exceeded criterion. Data are not impacted since this analyte was not detected in the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method AK102: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 1019 recovered below acceptance limits for Diesel Range Organics (DRO). The recoveries calculated were 72% (LCS) and 70% (LCSD). There was insufficient sample remaining for sample DFSPA-MW2R (230-262-1) to perform a re-extraction or re-analysis due to a lab accident (i.e. broken bottle); therefore, the data have been reported. DRO was detected at 0.616 mg/L for this sample.

The sample duplicate (DUP) precision for preparation batch 1019 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA (PAH SIM)
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW2R — Lab Sample ID: 230-262-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Naphthalene	6.68		4.00		ug/L	1		8260B	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.616	*	0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW22 — Lab Sample ID: 230-262-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C6-C10	193		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	0.393		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW25C — Lab Sample ID: 230-262-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	265		10.0		ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	76.6		1.00		ug/L	1		8260B	Total/NA
Acetone	213		100		ug/L	10		8260B	Total/NA
Benzene	19.2		0.500		ug/L	1		8260B	Total/NA
Ethylbenzene	68.8		1.00		ug/L	1		8260B	Total/NA
Isopropylbenzene	29.5		2.00		ug/L	1		8260B	Total/NA
m,p-Xylene	226		2.00		ug/L	1		8260B	Total/NA
Naphthalene	183		4.00		ug/L	1		8260B	Total/NA
n-Butylbenzene	16.5		5.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	42.0		1.00		ug/L	1		8260B	Total/NA
o-Xylene	1.68		1.00		ug/L	1		8260B	Total/NA
p-Isopropyltoluene	15.9		2.00		ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.98		1.00		ug/L	1		8260B	Total/NA
Toluene	1.31		1.00		ug/L	1		8260B	Total/NA
Xylenes, Total	228		1.00		ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C6-C10	2160		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	3.30		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW25B — Lab Sample ID: 230-262-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	339		10.0		ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	120		1.00		ug/L	1		8260B	Total/NA
Acetone	16.5		10.0		ug/L	1		8260B	Total/NA
Benzene	13.4		0.500		ug/L	1		8260B	Total/NA
Ethylbenzene	116		1.00		ug/L	1		8260B	Total/NA
Isopropylbenzene	56.8		2.00		ug/L	1		8260B	Total/NA
m,p-Xylene	125		2.00		ug/L	1		8260B	Total/NA
Naphthalene	377		40.0		ug/L	10		8260B	Total/NA
n-Butylbenzene	30.3		5.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	69.4		1.00		ug/L	1		8260B	Total/NA
o-Xylene	2.04		1.00		ug/L	1		8260B	Total/NA
p-Isopropyltoluene	28.0		2.00		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.87		1.00		ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.84		1.00		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DFSPA-MW25B (Continued) — Lab Sample ID: 230-262-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	127		1.00		ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C6-C10	1850		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	19.0		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW25A — Lab Sample ID: 230-262-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	337		10.0		ug/L	10		8260B	Total/NA
1,2-Dibromo-3-Chloropropane	11.9		5.00		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	100		1.00		ug/L	1		8260B	Total/NA
Benzene	4.00		0.500		ug/L	1		8260B	Total/NA
Ethylbenzene	41.8		1.00		ug/L	1		8260B	Total/NA
Isopropylbenzene	36.5		2.00		ug/L	1		8260B	Total/NA
m,p-Xylene	59.6		2.00		ug/L	1		8260B	Total/NA
Naphthalene	228		40.0		ug/L	10		8260B	Total/NA
n-Butylbenzene	27.6		5.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	58.7		1.00		ug/L	1		8260B	Total/NA
o-Xylene	2.59		1.00		ug/L	1		8260B	Total/NA
p-Isopropyltoluene	28.1		2.00		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.76		1.00		ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.88		1.00		ug/L	1		8260B	Total/NA
Xylenes, Total	62.2		1.00		ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C6-C10	1690		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	5.32		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW25BD — Lab Sample ID: 230-262-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	326		10.0		ug/L	10		8260B	Total/NA
1,3,5-Trimethylbenzene	119		1.00		ug/L	1		8260B	Total/NA
Acetone	14.6		10.0		ug/L	1		8260B	Total/NA
Benzene	13.6		0.500		ug/L	1		8260B	Total/NA
Ethylbenzene	119		1.00		ug/L	1		8260B	Total/NA
Isopropylbenzene	57.5		2.00		ug/L	1		8260B	Total/NA
m,p-Xylene	127		2.00		ug/L	1		8260B	Total/NA
Naphthalene	388		40.0		ug/L	10		8260B	Total/NA
n-Butylbenzene	31.0		5.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	69.4		1.00		ug/L	1		8260B	Total/NA
o-Xylene	2.07		1.00		ug/L	1		8260B	Total/NA
p-Isopropyltoluene	28.7		2.00		ug/L	1		8260B	Total/NA
sec-Butylbenzene	1.75		1.00		ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.89		1.00		ug/L	1		8260B	Total/NA
Xylenes, Total	129		1.00		ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C6-C10	1830		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	31.6		0.385		mg/L	1		AK102 & 103	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW15R — Lab Sample ID: 230-262-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	167		1.00		ug/L	1		8260B	Total/NA
1,2-Dichloroethane	1.45		1.00		ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	68.9		1.00		ug/L	1		8260B	Total/NA
Acetone	157		50.0		ug/L	5		8260B	Total/NA
Benzene	406		5.00		ug/L	10		8260B	Total/NA
Dichlorodifluoromethane	20.7		5.00		ug/L	1		8260B	Total/NA
Ethylbenzene	342		10.0		ug/L	10		8260B	Total/NA
Isopropylbenzene	33.6		2.00		ug/L	1		8260B	Total/NA
m,p-Xylene	366		2.00		ug/L	1		8260B	Total/NA
Naphthalene	192		4.00		ug/L	1		8260B	Total/NA
n-Butylbenzene	10.9		5.00		ug/L	1		8260B	Total/NA
N-Propylbenzene	31.2		1.00		ug/L	1		8260B	Total/NA
o-Xylene	3.08		1.00		ug/L	1		8260B	Total/NA
p-Isopropyltoluene	10.7		2.00		ug/L	1		8260B	Total/NA
tert-Butylbenzene	1.83		1.00		ug/L	1		8260B	Total/NA
Toluene	9.61		1.00		ug/L	1		8260B	Total/NA
Xylenes, Total	369		1.00		ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C6-C10	4210		50.0		ug/L	1		AK101	Total/NA
Diesel Range Organics (DRO) (C10-C25)	4.59		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW23 — Lab Sample ID: 230-262-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.27		1.00		ug/L	1		8260B	Total/NA
m,p-Xylene	2.34		2.00		ug/L	1		8260B	Total/NA
Naphthalene	10.8		4.00		ug/L	1		8260B	Total/NA
Xylenes, Total	2.34		1.00		ug/L	1		8260B	Total/NA
Diesel Range Organics (DRO) (C10-C25)	1.33		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-MW4R — Lab Sample ID: 230-262-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.27		1.00		ug/L	1		8260B	Total/NA
Benzene	3.44		0.500		ug/L	1		8260B	Total/NA
Naphthalene	7.66		4.00		ug/L	1		8260B	Total/NA
Diesel Range Organics (DRO) (C10-C25)	2.72		0.385		mg/L	1		AK102 & 103	Total/NA

Client Sample ID: DFSPA-SS14 — Lab Sample ID: 230-262-10

No Detections.

Client Sample ID: DFSPA-SS12 — Lab Sample ID: 230-262-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Benzene	1.03		0.500		ug/L	1		8260B	Total/NA
Naphthalene	6.87		4.00		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-SS12 (Continued) — Lab Sample ID: 230-262-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.169		0.0996		ug/L	1.00		EPA 8270D	Total

Client Sample ID: Trip Blank — Lab Sample ID: 230-262-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW2R
Date Collected: 08/21/14 11:29
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 05:18	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 05:18	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 05:18	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 05:18	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 05:18	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 05:18	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 05:18	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 05:18	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 05:18	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 05:18	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 05:18	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 05:18	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 05:18	1
2-Hexanone	ND		10.0		ug/L			08/23/14 05:18	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 05:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 05:18	1
Acetone	ND		10.0		ug/L			08/23/14 05:18	1
Benzene	ND		0.500		ug/L			08/23/14 05:18	1
Bromobenzene	ND		1.00		ug/L			08/23/14 05:18	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 05:18	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 05:18	1
Bromoform	ND		1.00		ug/L			08/23/14 05:18	1
Bromomethane	ND		5.00		ug/L			08/23/14 05:18	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 05:18	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 05:18	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 05:18	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 05:18	1
Chloroethane	ND		1.00		ug/L			08/23/14 05:18	1
Chloroform	ND		1.00		ug/L			08/23/14 05:18	1
Chloromethane	ND		5.00		ug/L			08/23/14 05:18	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 05:18	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 05:18	1
Dibromomethane	ND		1.00		ug/L			08/23/14 05:18	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 05:18	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 05:18	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 05:18	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 05:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 05:18	1

Client Sample ID: DFSPA-MW2R

Lab Sample ID: 230-262-1

Date Collected: 08/21/14 11:29

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00		ug/L			08/23/14 05:18	1
Naphthalene	**6.68**		4.00		ug/L			08/23/14 05:18	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 05:18	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
o-Xylene	ND		1.00		ug/L			08/23/14 05:18	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 05:18	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
Styrene	ND		1.00		ug/L			08/23/14 05:18	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 05:18	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 05:18	1
Toluene	ND		1.00		ug/L			08/23/14 05:18	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 05:18	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 05:18	1
Trichloroethene	ND		1.00		ug/L			08/23/14 05:18	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 05:18	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 05:18	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*57.8 - 139*		*08/23/14 05:18*	*1*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*		*08/23/14 05:18*	*1*
Toluene-d8 (Surr)	*99*		*38.6 - 147*		*08/23/14 05:18*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50.0		ug/L			08/23/14 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/23/14 05:18*	*1*
Dibromofluoromethane (Surr)	*100*		*72.7 - 135*		*08/23/14 05:18*	*1*
Toluene-d8 (Surr)	*99*		*72.4 - 121*		*08/23/14 05:18*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**0.616**	*	0.385		mg/L		08/26/14 08:46	08/26/14 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*101*		*50 - 150*	*08/26/14 08:46*	*08/26/14 19:43*	*1*

Client Sample ID: DFSPA-MW22

Lab Sample ID: 230-262-2

Date Collected: 08/21/14 13:15

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 06:22	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 06:22	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 06:22	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 06:22	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW22
Date Collected: 08/21/14 13:15
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 06:22	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 06:22	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 06:22	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 06:22	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 06:22	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 06:22	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 06:22	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 06:22	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 06:22	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 06:22	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 06:22	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 06:22	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 06:22	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 06:22	1
2-Hexanone	ND		10.0		ug/L			08/23/14 06:22	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 06:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 06:22	1
Acetone	ND		10.0		ug/L			08/23/14 06:22	1
Benzene	ND		0.500		ug/L			08/23/14 06:22	1
Bromobenzene	ND		1.00		ug/L			08/23/14 06:22	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 06:22	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 06:22	1
Bromoform	ND		1.00		ug/L			08/23/14 06:22	1
Bromomethane	ND		5.00		ug/L			08/23/14 06:22	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 06:22	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 06:22	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 06:22	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 06:22	1
Chloroethane	ND		1.00		ug/L			08/23/14 06:22	1
Chloroform	ND		1.00		ug/L			08/23/14 06:22	1
Chloromethane	ND		5.00		ug/L			08/23/14 06:22	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 06:22	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 06:22	1
Dibromomethane	ND		1.00		ug/L			08/23/14 06:22	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 06:22	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 06:22	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 06:22	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 06:22	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 06:22	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 06:22	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 06:22	1
Naphthalene	ND		4.00		ug/L			08/23/14 06:22	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 06:22	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 06:22	1

Client Sample ID: DFSPA-MW22

Lab Sample ID: 230-262-2
Date Collected: 08/21/14 13:15
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.00		ug/L			08/23/14 06:22	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 06:22	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 06:22	1
Styrene	ND		1.00		ug/L			08/23/14 06:22	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 06:22	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 06:22	1
Toluene	ND		1.00		ug/L			08/23/14 06:22	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 06:22	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 06:22	1
Trichloroethene	ND		1.00		ug/L			08/23/14 06:22	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 06:22	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 06:22	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*57.8 - 139*		*08/23/14 06:22*	*1*
Dibromofluoromethane (Surr)	*98*		*35.8 - 145*		*08/23/14 06:22*	*1*
Toluene-d8 (Surr)	*99*		*38.6 - 147*		*08/23/14 06:22*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**193**		50.0		ug/L			08/23/14 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/23/14 06:22*	*1*
Dibromofluoromethane (Surr)	*98*		*72.7 - 135*		*08/23/14 06:22*	*1*
Toluene-d8 (Surr)	*99*		*72.4 - 121*		*08/23/14 06:22*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**0.393**		0.385		mg/L		08/26/14 08:46	08/26/14 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*101*		*50 - 150*	*08/26/14 08:46*	*08/26/14 20:15*	*1*

Client Sample ID: DFSPA-MW25C

Lab Sample ID: 230-262-3
Date Collected: 08/21/14 14:40
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 06:54	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 06:54	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 06:54	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW25C
Date Collected: 08/21/14 14:40
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 06:54	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 06:54	1
1,2,4-Trimethylbenzene	**265**		10.0		ug/L			08/26/14 21:14	10
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 06:54	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 06:54	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 06:54	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 06:54	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 06:54	1
1,3,5-Trimethylbenzene	**76.6**		1.00		ug/L			08/23/14 06:54	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 06:54	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 06:54	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 06:54	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 06:54	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 06:54	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 06:54	1
2-Hexanone	ND		10.0		ug/L			08/23/14 06:54	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 06:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 06:54	1
Acetone	**213**		100		ug/L			08/26/14 21:14	10
Benzene	**19.2**		0.500		ug/L			08/23/14 06:54	1
Bromobenzene	ND		1.00		ug/L			08/23/14 06:54	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 06:54	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 06:54	1
Bromoform	ND		1.00		ug/L			08/23/14 06:54	1
Bromomethane	ND		5.00		ug/L			08/23/14 06:54	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 06:54	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 06:54	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 06:54	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 06:54	1
Chloroethane	ND		1.00		ug/L			08/23/14 06:54	1
Chloroform	ND		1.00		ug/L			08/23/14 06:54	1
Chloromethane	ND		5.00		ug/L			08/23/14 06:54	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 06:54	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 06:54	1
Dibromomethane	ND		1.00		ug/L			08/23/14 06:54	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 06:54	1
Ethylbenzene	**68.8**		1.00		ug/L			08/23/14 06:54	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 06:54	1
Isopropylbenzene	**29.5**		2.00		ug/L			08/23/14 06:54	1
m,p-Xylene	**226**		2.00		ug/L			08/23/14 06:54	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 06:54	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 06:54	1
Naphthalene	**183**		4.00		ug/L			08/23/14 06:54	1
n-Butylbenzene	**16.5**		5.00		ug/L			08/23/14 06:54	1
N-Propylbenzene	**42.0**		1.00		ug/L			08/23/14 06:54	1
o-Xylene	**1.68**		1.00		ug/L			08/23/14 06:54	1
p-Isopropyltoluene	**15.9**		2.00		ug/L			08/23/14 06:54	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 06:54	1
Styrene	ND		1.00		ug/L			08/23/14 06:54	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW25C

Lab Sample ID: 230-262-3

Date Collected: 08/21/14 14:40

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	**1.98**		1.00		ug/L			08/23/14 06:54	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 06:54	1
Toluene	**1.31**		1.00		ug/L			08/23/14 06:54	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 06:54	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 06:54	1
Trichloroethene	ND		1.00		ug/L			08/23/14 06:54	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 06:54	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 06:54	1
Xylenes, Total	**228**		1.00		ug/L			08/23/14 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*57.8 - 139*		*08/23/14 06:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*57.8 - 139*		*08/26/14 21:14*	*10*
Dibromofluoromethane (Surr)	*103*		*35.8 - 145*		*08/23/14 06:54*	*1*
Dibromofluoromethane (Surr)	*107*		*35.8 - 145*		*08/26/14 21:14*	*10*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 06:54*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/26/14 21:14*	*10*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**2160**		50.0		ug/L			08/23/14 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/23/14 06:54*	*1*
Dibromofluoromethane (Surr)	*103*		*72.7 - 135*		*08/23/14 06:54*	*1*
Toluene-d8 (Surr)	*98*		*72.4 - 121*		*08/23/14 06:54*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**3.30**		0.385		mg/L		08/28/14 10:55	08/29/14 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*100*		*50 - 150*	*08/28/14 10:55*	*08/29/14 13:28*	*1*

Client Sample ID: DFSPA-MW25B

Lab Sample ID: 230-262-4

Date Collected: 08/21/14 15:55

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 07:26	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 07:26	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 07:26	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 07:26	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW25B
Date Collected: 08/21/14 15:55
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 07:26	1
1,2,4-Trimethylbenzene	**339**		10.0		ug/L			08/26/14 21:46	10
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 07:26	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 07:26	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 07:26	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 07:26	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 07:26	1
1,3,5-Trimethylbenzene	**120**		1.00		ug/L			08/23/14 07:26	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 07:26	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 07:26	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 07:26	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 07:26	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 07:26	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 07:26	1
2-Hexanone	ND		10.0		ug/L			08/23/14 07:26	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 07:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 07:26	1
Acetone	**16.5**		10.0		ug/L			08/23/14 07:26	1
Benzene	**13.4**		0.500		ug/L			08/23/14 07:26	1
Bromobenzene	ND		1.00		ug/L			08/23/14 07:26	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 07:26	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 07:26	1
Bromoform	ND		1.00		ug/L			08/23/14 07:26	1
Bromomethane	ND		5.00		ug/L			08/23/14 07:26	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 07:26	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 07:26	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 07:26	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 07:26	1
Chloroethane	ND		1.00		ug/L			08/23/14 07:26	1
Chloroform	ND		1.00		ug/L			08/23/14 07:26	1
Chloromethane	ND		5.00		ug/L			08/23/14 07:26	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 07:26	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 07:26	1
Dibromomethane	ND		1.00		ug/L			08/23/14 07:26	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 07:26	1
Ethylbenzene	**116**		1.00		ug/L			08/23/14 07:26	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 07:26	1
Isopropylbenzene	**56.8**		2.00		ug/L			08/23/14 07:26	1
m,p-Xylene	**125**		2.00		ug/L			08/23/14 07:26	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 07:26	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 07:26	1
Naphthalene	**377**		40.0		ug/L			08/26/14 21:46	10
n-Butylbenzene	**30.3**		5.00		ug/L			08/23/14 07:26	1
N-Propylbenzene	**69.4**		1.00		ug/L			08/23/14 07:26	1
o-Xylene	**2.04**		1.00		ug/L			08/23/14 07:26	1
p-Isopropyltoluene	**28.0**		2.00		ug/L			08/23/14 07:26	1
sec-Butylbenzene	**1.87**		1.00		ug/L			08/23/14 07:26	1
Styrene	ND		1.00		ug/L			08/23/14 07:26	1
tert-Butylbenzene	**1.84**		1.00		ug/L			08/23/14 07:26	1

Client Sample ID: DFSPA-MW25B

Lab Sample ID: 230-262-4

Date Collected: 08/21/14 15:55

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00		ug/L			08/23/14 07:26	1
Toluene	ND		1.00		ug/L			08/23/14 07:26	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 07:26	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 07:26	1
Trichloroethene	ND		1.00		ug/L			08/23/14 07:26	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 07:26	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 07:26	1
Xylenes, Total	**127**		1.00		ug/L			08/23/14 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*57.8 - 139*		*08/23/14 07:26*	*1*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*		*08/26/14 21:46*	*10*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*		*08/23/14 07:26*	*1*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*		*08/26/14 21:46*	*10*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 07:26*	*1*
Toluene-d8 (Surr)	*99*		*38.6 - 147*		*08/26/14 21:46*	*10*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**1850**		50.0		ug/L			08/23/14 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/23/14 07:26*	*1*
Dibromofluoromethane (Surr)	*99*		*72.7 - 135*		*08/23/14 07:26*	*1*
Toluene-d8 (Surr)	*98*		*72.4 - 121*		*08/23/14 07:26*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**19.0**		0.385		mg/L		08/28/14 10:55	08/29/14 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*99*		*50 - 150*	*08/28/14 10:55*	*08/29/14 14:00*	*1*

Client Sample ID: DFSPA-MW25A

Lab Sample ID: 230-262-5

Date Collected: 08/21/14 17:00

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 07:58	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 07:58	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 07:58	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 07:58	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 07:58	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW25A
Date Collected: 08/21/14 17:00
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**337**		10.0		ug/L			08/26/14 22:18	10
1,2-Dibromo-3-Chloropropane	**11.9**		5.00		ug/L			08/23/14 07:58	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 07:58	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 07:58	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 07:58	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 07:58	1
1,3,5-Trimethylbenzene	**100**		1.00		ug/L			08/23/14 07:58	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 07:58	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 07:58	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 07:58	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 07:58	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 07:58	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 07:58	1
2-Hexanone	ND		10.0		ug/L			08/23/14 07:58	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 07:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 07:58	1
Acetone	ND		10.0		ug/L			08/23/14 07:58	1
Benzene	**4.00**		0.500		ug/L			08/23/14 07:58	1
Bromobenzene	ND		1.00		ug/L			08/23/14 07:58	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 07:58	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 07:58	1
Bromoform	ND		1.00		ug/L			08/23/14 07:58	1
Bromomethane	ND		5.00		ug/L			08/23/14 07:58	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 07:58	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 07:58	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 07:58	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 07:58	1
Chloroethane	ND		1.00		ug/L			08/23/14 07:58	1
Chloroform	ND		1.00		ug/L			08/23/14 07:58	1
Chloromethane	ND		5.00		ug/L			08/23/14 07:58	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 07:58	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 07:58	1
Dibromomethane	ND		1.00		ug/L			08/23/14 07:58	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 07:58	1
Ethylbenzene	**41.8**		1.00		ug/L			08/23/14 07:58	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 07:58	1
Isopropylbenzene	**36.5**		2.00		ug/L			08/23/14 07:58	1
m,p-Xylene	**59.6**		2.00		ug/L			08/23/14 07:58	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 07:58	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 07:58	1
Naphthalene	**228**		40.0		ug/L			08/26/14 22:18	10
n-Butylbenzene	**27.6**		5.00		ug/L			08/23/14 07:58	1
N-Propylbenzene	**58.7**		1.00		ug/L			08/23/14 07:58	1
o-Xylene	**2.59**		1.00		ug/L			08/23/14 07:58	1
p-Isopropyltoluene	**28.1**		2.00		ug/L			08/23/14 07:58	1
sec-Butylbenzene	**1.76**		1.00		ug/L			08/23/14 07:58	1
Styrene	ND		1.00		ug/L			08/23/14 07:58	1
tert-Butylbenzene	**1.88**		1.00		ug/L			08/23/14 07:58	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 07:58	1

Client Sample ID: DFSPA-MW25A
Lab Sample ID: 230-262-5
Date Collected: 08/21/14 17:00
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.00		ug/L			08/23/14 07:58	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 07:58	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 07:58	1
Trichloroethene	ND		1.00		ug/L			08/23/14 07:58	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 07:58	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 07:58	1
Xylenes, Total	**62.2**		1.00		ug/L			08/23/14 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*57.8 - 139*		*08/23/14 07:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*		*08/26/14 22:18*	*10*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*		*08/23/14 07:58*	*1*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*		*08/26/14 22:18*	*10*
Toluene-d8 (Surr)	*99*		*38.6 - 147*		*08/23/14 07:58*	*1*
Toluene-d8 (Surr)	*99*		*38.6 - 147*		*08/26/14 22:18*	*10*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**1690**		50.0		ug/L			08/23/14 07:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/23/14 07:58*	*1*
Dibromofluoromethane (Surr)	*100*		*72.7 - 135*		*08/23/14 07:58*	*1*
Toluene-d8 (Surr)	*99*		*72.4 - 121*		*08/23/14 07:58*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**5.32**		0.385		mg/L		08/28/14 10:55	08/29/14 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*96*		*50 - 150*	*08/28/14 10:55*	*08/29/14 14:32*	*1*

Client Sample ID: DFSPA-MW25BD
Lab Sample ID: 230-262-6
Date Collected: 08/21/14 16:00
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 10:07	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 10:07	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 10:07	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 10:07	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 10:07	1
1,2,4-Trimethylbenzene	**326**		10.0		ug/L			08/26/14 22:50	10

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW25BD
Date Collected: 08/21/14 16:00
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 10:07	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 10:07	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 10:07	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 10:07	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 10:07	1
1,3,5-Trimethylbenzene	**119**		1.00		ug/L			08/23/14 10:07	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 10:07	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 10:07	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 10:07	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 10:07	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 10:07	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 10:07	1
2-Hexanone	ND		10.0		ug/L			08/23/14 10:07	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 10:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 10:07	1
Acetone	**14.6**		10.0		ug/L			08/23/14 10:07	1
Benzene	**13.6**		0.500		ug/L			08/23/14 10:07	1
Bromobenzene	ND		1.00		ug/L			08/23/14 10:07	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 10:07	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 10:07	1
Bromoform	ND		1.00		ug/L			08/23/14 10:07	1
Bromomethane	ND		5.00		ug/L			08/23/14 10:07	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 10:07	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 10:07	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 10:07	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 10:07	1
Chloroethane	ND		1.00		ug/L			08/23/14 10:07	1
Chloroform	ND		1.00		ug/L			08/23/14 10:07	1
Chloromethane	ND		5.00		ug/L			08/23/14 10:07	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 10:07	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 10:07	1
Dibromomethane	ND		1.00		ug/L			08/23/14 10:07	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 10:07	1
Ethylbenzene	**119**		1.00		ug/L			08/23/14 10:07	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 10:07	1
Isopropylbenzene	**57.5**		2.00		ug/L			08/23/14 10:07	1
m,p-Xylene	**127**		2.00		ug/L			08/23/14 10:07	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 10:07	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 10:07	1
Naphthalene	**388**		40.0		ug/L			08/26/14 22:50	10
n-Butylbenzene	**31.0**		5.00		ug/L			08/23/14 10:07	1
N-Propylbenzene	**69.4**		1.00		ug/L			08/23/14 10:07	1
o-Xylene	**2.07**		1.00		ug/L			08/23/14 10:07	1
p-Isopropyltoluene	**28.7**		2.00		ug/L			08/23/14 10:07	1
sec-Butylbenzene	**1.75**		1.00		ug/L			08/23/14 10:07	1
Styrene	ND		1.00		ug/L			08/23/14 10:07	1
tert-Butylbenzene	**1.89**		1.00		ug/L			08/23/14 10:07	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 10:07	1
Toluene	ND		1.00		ug/L			08/23/14 10:07	1

Client Sample ID: DFSPA-MW25BD

Lab Sample ID: 230-262-6

Date Collected: 08/21/14 16:00

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 10:07	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 10:07	1
Trichloroethene	ND		1.00		ug/L			08/23/14 10:07	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 10:07	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 10:07	1
Xylenes, Total	**129**		1.00		ug/L			08/23/14 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*57.8 - 139*		*08/23/14 10:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*		*08/26/14 22:50*	*10*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*		*08/23/14 10:07*	*1*
Dibromofluoromethane (Surr)	*103*		*35.8 - 145*		*08/26/14 22:50*	*10*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 10:07*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/26/14 22:50*	*10*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**1830**		50.0		ug/L			08/23/14 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/23/14 10:07*	*1*
Dibromofluoromethane (Surr)	*99*		*72.7 - 135*		*08/23/14 10:07*	*1*
Toluene-d8 (Surr)	*98*		*72.4 - 121*		*08/23/14 10:07*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**31.6**		0.385		mg/L		08/28/14 10:55	08/29/14 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*102*		*50 - 150*	*08/28/14 10:55*	*08/29/14 15:04*	*1*

Client Sample ID: DFSPA-MW15R

Lab Sample ID: 230-262-7

Date Collected: 08/21/14 17:50

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 10:39	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 10:39	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 10:39	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 10:39	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 10:39	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 10:39	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 10:39	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 10:39	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 10:39	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 10:39	1
1,2,4-Trimethylbenzene	**167**		1.00		ug/L			08/23/14 10:39	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 10:39	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW15R
Date Collected: 08/21/14 17:50
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 10:39	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 10:39	1
1,2-Dichloroethane	**1.45**		1.00		ug/L			08/23/14 10:39	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 10:39	1
1,3,5-Trimethylbenzene	**68.9**		1.00		ug/L			08/23/14 10:39	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 10:39	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 10:39	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 10:39	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 10:39	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 10:39	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 10:39	1
2-Hexanone	ND		10.0		ug/L			08/23/14 10:39	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 10:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 10:39	1
Acetone	**157**		50.0		ug/L			08/27/14 18:56	5
Benzene	**406**		5.00		ug/L			08/26/14 23:22	10
Bromobenzene	ND		1.00		ug/L			08/23/14 10:39	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 10:39	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 10:39	1
Bromoform	ND		1.00		ug/L			08/23/14 10:39	1
Bromomethane	ND		5.00		ug/L			08/23/14 10:39	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 10:39	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 10:39	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 10:39	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 10:39	1
Chloroethane	ND		1.00		ug/L			08/23/14 10:39	1
Chloroform	ND		1.00		ug/L			08/23/14 10:39	1
Chloromethane	ND		5.00		ug/L			08/23/14 10:39	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 10:39	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 10:39	1
Dibromomethane	ND		1.00		ug/L			08/23/14 10:39	1
Dichlorodifluoromethane	**20.7**		5.00		ug/L			08/23/14 10:39	1
Ethylbenzene	**342**		10.0		ug/L			08/26/14 23:22	10
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 10:39	1
Isopropylbenzene	**33.6**		2.00		ug/L			08/23/14 10:39	1
m,p-Xylene	**366**		2.00		ug/L			08/23/14 10:39	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 10:39	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 10:39	1
Naphthalene	**192**		4.00		ug/L			08/23/14 10:39	1
n-Butylbenzene	**10.9**		5.00		ug/L			08/23/14 10:39	1
N-Propylbenzene	**31.2**		1.00		ug/L			08/23/14 10:39	1
o-Xylene	**3.08**		1.00		ug/L			08/23/14 10:39	1
p-Isopropyltoluene	**10.7**		2.00		ug/L			08/23/14 10:39	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 10:39	1
Styrene	ND		1.00		ug/L			08/23/14 10:39	1
tert-Butylbenzene	**1.83**		1.00		ug/L			08/23/14 10:39	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 10:39	1
Toluene	**9.61**		1.00		ug/L			08/23/14 10:39	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 10:39	1

Client Sample ID: DFSPA-MW15R

Lab Sample ID: 230-262-7

Date Collected: 08/21/14 17:50

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 10:39	1
Trichloroethene	ND		1.00		ug/L			08/23/14 10:39	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 10:39	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 10:39	1
Xylenes, Total	**369**		1.00		ug/L			08/23/14 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*57.8 - 139*		*08/23/14 10:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*57.8 - 139*		*08/26/14 23:22*	*10*
4-Bromofluorobenzene (Surr)	*100*		*57.8 - 139*		*08/27/14 18:56*	*5*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*		*08/23/14 10:39*	*1*
Dibromofluoromethane (Surr)	*98*		*35.8 - 145*		*08/26/14 23:22*	*10*
Dibromofluoromethane (Surr)	*101*		*35.8 - 145*		*08/27/14 18:56*	*5*
Toluene-d8 (Surr)	*96*		*38.6 - 147*		*08/23/14 10:39*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/26/14 23:22*	*10*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/27/14 18:56*	*5*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	**4210**		50.0		ug/L			08/23/14 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/23/14 10:39*	*1*
Dibromofluoromethane (Surr)	*99*		*72.7 - 135*		*08/23/14 10:39*	*1*
Toluene-d8 (Surr)	*96*		*72.4 - 121*		*08/23/14 10:39*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**4.59**		0.385		mg/L		08/28/14 10:55	08/29/14 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*105*		*50 - 150*	*08/28/14 10:55*	*08/29/14 15:36*	*1*

Client Sample ID: DFSPA-MW23

Lab Sample ID: 230-262-8

Date Collected: 08/21/14 18:45

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 11:11	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 11:11	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 11:11	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 11:11	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 11:11	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW23
Date Collected: 08/21/14 18:45
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**2.27**		1.00		ug/L			08/23/14 11:11	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 11:11	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 11:11	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 11:11	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 11:11	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 11:11	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 11:11	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 11:11	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 11:11	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 11:11	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 11:11	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 11:11	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 11:11	1
2-Hexanone	ND		10.0		ug/L			08/23/14 11:11	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 11:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 11:11	1
Acetone	ND		10.0		ug/L			08/23/14 11:11	1
Benzene	ND		0.500		ug/L			08/26/14 19:04	1
Bromobenzene	ND		1.00		ug/L			08/23/14 11:11	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 11:11	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 11:11	1
Bromoform	ND		1.00		ug/L			08/23/14 11:11	1
Bromomethane	ND		5.00		ug/L			08/23/14 11:11	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 11:11	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 11:11	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 11:11	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 11:11	1
Chloroethane	ND		1.00		ug/L			08/23/14 11:11	1
Chloroform	ND		1.00		ug/L			08/23/14 11:11	1
Chloromethane	ND		5.00		ug/L			08/23/14 11:11	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 11:11	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 11:11	1
Dibromomethane	ND		1.00		ug/L			08/23/14 11:11	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 11:11	1
Ethylbenzene	ND		1.00		ug/L			08/26/14 19:04	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 11:11	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 11:11	1
m,p-Xylene	**2.34**		2.00		ug/L			08/23/14 11:11	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 11:11	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 11:11	1
Naphthalene	**10.8**		4.00		ug/L			08/23/14 11:11	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 11:11	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 11:11	1
o-Xylene	ND		1.00		ug/L			08/23/14 11:11	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 11:11	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 11:11	1
Styrene	ND		1.00		ug/L			08/23/14 11:11	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 11:11	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 11:11	1

Client Sample ID: DFSPA-MW23

Lab Sample ID: 230-262-8
Date Collected: 08/21/14 18:45
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.00		ug/L			08/23/14 11:11	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 11:11	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 11:11	1
Trichloroethene	ND		1.00		ug/L			08/23/14 11:11	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 11:11	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 11:11	1
Xylenes, Total	**2.34**		1.00		ug/L			08/23/14 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*57.8 - 139*		*08/23/14 11:11*	*1*
4-Bromofluorobenzene (Surr)	*96*		*57.8 - 139*		*08/26/14 19:04*	*1*
Dibromofluoromethane (Surr)	*98*		*35.8 - 145*		*08/23/14 11:11*	*1*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*		*08/26/14 19:04*	*1*
Toluene-d8 (Surr)	*100*		*38.6 - 147*		*08/23/14 11:11*	*1*
Toluene-d8 (Surr)	*97*		*38.6 - 147*		*08/26/14 19:04*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50.0		ug/L			08/23/14 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/23/14 11:11*	*1*
Dibromofluoromethane (Surr)	*98*		*72.7 - 135*		*08/23/14 11:11*	*1*
Toluene-d8 (Surr)	*100*		*72.4 - 121*		*08/23/14 11:11*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**1.33**		0.385		mg/L		08/28/14 10:55	08/29/14 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*106*		*50 - 150*	*08/28/14 10:55*	*08/29/14 16:07*	*1*

Client Sample ID: DFSPA-MW4R

Lab Sample ID: 230-262-9
Date Collected: 08/21/14 19:03
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 11:43	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 11:43	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 11:43	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 11:43	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 11:43	1
1,2,4-Trimethylbenzene	**1.27**		1.00		ug/L			08/23/14 11:43	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW4R
Date Collected: 08/21/14 19:03
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 11:43	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 11:43	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 11:43	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 11:43	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 11:43	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 11:43	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 11:43	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 11:43	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 11:43	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 11:43	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 11:43	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 11:43	1
2-Hexanone	ND		10.0		ug/L			08/23/14 11:43	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 11:43	1
Acetone	ND		10.0		ug/L			08/23/14 11:43	1
Benzene	**3.44**		0.500		ug/L			08/23/14 11:43	1
Bromobenzene	ND		1.00		ug/L			08/23/14 11:43	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 11:43	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 11:43	1
Bromoform	ND		1.00		ug/L			08/23/14 11:43	1
Bromomethane	ND		5.00		ug/L			08/23/14 11:43	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 11:43	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 11:43	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 11:43	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 11:43	1
Chloroethane	ND		1.00		ug/L			08/23/14 11:43	1
Chloroform	ND		1.00		ug/L			08/23/14 11:43	1
Chloromethane	ND		5.00		ug/L			08/23/14 11:43	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 11:43	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 11:43	1
Dibromomethane	ND		1.00		ug/L			08/23/14 11:43	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 11:43	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 11:43	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 11:43	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 11:43	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 11:43	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 11:43	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 11:43	1
Naphthalene	**7.66**		4.00		ug/L			08/23/14 11:43	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 11:43	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 11:43	1
o-Xylene	ND		1.00		ug/L			08/23/14 11:43	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 11:43	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 11:43	1
Styrene	ND		1.00		ug/L			08/23/14 11:43	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 11:43	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 11:43	1
Toluene	ND		1.00		ug/L			08/23/14 11:43	1

Client Sample ID: DFSPA-MW4R

Lab Sample ID: 230-262-9

Date Collected: 08/21/14 19:03

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 11:43	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 11:43	1
Trichloroethene	ND		1.00		ug/L			08/23/14 11:43	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 11:43	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 11:43	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*57.8 - 139*		*08/23/14 11:43*	*1*
Dibromofluoromethane (Surr)	*103*		*35.8 - 145*		*08/23/14 11:43*	*1*
Toluene-d8 (Surr)	*97*		*38.6 - 147*		*08/23/14 11:43*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50.0		ug/L			08/23/14 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/23/14 11:43*	*1*
Dibromofluoromethane (Surr)	*103*		*72.7 - 135*		*08/23/14 11:43*	*1*
Toluene-d8 (Surr)	*97*		*72.4 - 121*		*08/23/14 11:43*	*1*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**2.72**		0.385		mg/L		08/28/14 10:55	08/29/14 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*98*		*50 - 150*	*08/28/14 10:55*	*08/29/14 17:12*	*1*

Client Sample ID: DFSPA-SS14

Lab Sample ID: 230-262-10

Date Collected: 08/22/14 09:35

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 12:15	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 12:15	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 12:15	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 12:15	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 12:15	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 12:15	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 12:15	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 12:15	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 12:15	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 12:15	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 12:15	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-SS14
Date Collected: 08/22/14 09:35
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 12:15	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 12:15	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 12:15	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 12:15	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 12:15	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 12:15	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 12:15	1
2-Hexanone	ND		10.0		ug/L			08/23/14 12:15	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 12:15	1
Acetone	ND		10.0		ug/L			08/23/14 12:15	1
Benzene	ND		0.500		ug/L			08/23/14 12:15	1
Bromobenzene	ND		1.00		ug/L			08/23/14 12:15	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 12:15	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 12:15	1
Bromoform	ND		1.00		ug/L			08/23/14 12:15	1
Bromomethane	ND		5.00		ug/L			08/23/14 12:15	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 12:15	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 12:15	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 12:15	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 12:15	1
Chloroethane	ND		1.00		ug/L			08/23/14 12:15	1
Chloroform	ND		1.00		ug/L			08/23/14 12:15	1
Chloromethane	ND		5.00		ug/L			08/23/14 12:15	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 12:15	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 12:15	1
Dibromomethane	ND		1.00		ug/L			08/23/14 12:15	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 12:15	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 12:15	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 12:15	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 12:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 12:15	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 12:15	1
Naphthalene	ND		4.00		ug/L			08/23/14 12:15	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 12:15	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
o-Xylene	ND		1.00		ug/L			08/23/14 12:15	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 12:15	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
Styrene	ND		1.00		ug/L			08/23/14 12:15	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 12:15	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 12:15	1
Toluene	ND		1.00		ug/L			08/23/14 12:15	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 12:15	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 12:15	1
Trichloroethene	ND		1.00		ug/L			08/23/14 12:15	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 12:15	1

Client Sample ID: DFSPA-SS14

Lab Sample ID: 230-262-10

Date Collected: 08/22/14 09:35

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.00		ug/L			08/23/14 12:15	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*		*08/23/14 12:15*	*1*
Dibromofluoromethane (Surr)	*98*		*35.8 - 145*		*08/23/14 12:15*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 12:15*	*1*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
2-Methylnaphthalene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
1-Methylnaphthalene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Acenaphthylene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Acenaphthene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Fluorene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Phenanthrene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Anthracene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Fluoranthene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Pyrene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Benzo (a) anthracene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Chrysene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Benzo (b) fluoranthene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Benzo (k) fluoranthene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Benzo (a) pyrene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Dibenzo (a,h) anthracene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00
Benzo (ghi) perylene	ND		0.0980		ug/L		08/27/14 09:20	08/28/14 03:32	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*88.7*		*32.7 - 135*	*08/27/14 09:20*	*08/28/14 03:32*	*1.00*
2-FBP	*77.7*		*44.3 - 120*	*08/27/14 09:20*	*08/28/14 03:32*	*1.00*
p-Terphenyl-d14	*91.7*		*59.5 - 154*	*08/27/14 09:20*	*08/28/14 03:32*	*1.00*

Client Sample ID: DFSPA-SS12

Lab Sample ID: 230-262-11

Date Collected: 08/22/14 09:55

Matrix: Water

Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 12:47	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 12:47	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 12:47	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 12:47	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 12:47	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-SS12
Date Collected: 08/22/14 09:55
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 12:47	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 12:47	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 12:47	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 12:47	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 12:47	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 12:47	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 12:47	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 12:47	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 12:47	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 12:47	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 12:47	1
2-Hexanone	ND		10.0		ug/L			08/23/14 12:47	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 12:47	1
Acetone	ND		10.0		ug/L			08/23/14 12:47	1
Benzene	**1.03**		0.500		ug/L			08/23/14 12:47	1
Bromobenzene	ND		1.00		ug/L			08/23/14 12:47	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 12:47	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 12:47	1
Bromoform	ND		1.00		ug/L			08/23/14 12:47	1
Bromomethane	ND		5.00		ug/L			08/23/14 12:47	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 12:47	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 12:47	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 12:47	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 12:47	1
Chloroethane	ND		1.00		ug/L			08/23/14 12:47	1
Chloroform	ND		1.00		ug/L			08/23/14 12:47	1
Chloromethane	ND		5.00		ug/L			08/23/14 12:47	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 12:47	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 12:47	1
Dibromomethane	ND		1.00		ug/L			08/23/14 12:47	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 12:47	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 12:47	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 12:47	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 12:47	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 12:47	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 12:47	1
Naphthalene	**6.87**		4.00		ug/L			08/23/14 12:47	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 12:47	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
o-Xylene	ND		1.00		ug/L			08/23/14 12:47	1
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 12:47	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
Styrene	ND		1.00		ug/L			08/23/14 12:47	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 12:47	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 12:47	1

Client Sample ID: DFSPA-SS12
Lab Sample ID: 230-262-11

Date Collected: 08/22/14 09:55
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.00		ug/L			08/23/14 12:47	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 12:47	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 12:47	1
Trichloroethene	ND		1.00		ug/L			08/23/14 12:47	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 12:47	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 12:47	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*57.8 - 139*		*08/23/14 12:47*	*1*
Dibromofluoromethane (Surr)	*103*		*35.8 - 145*		*08/23/14 12:47*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 12:47*	*1*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
2-Methylnaphthalene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
1-Methylnaphthalene	**0.169**		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Acenaphthylene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Acenaphthene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Fluorene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Phenanthrene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Anthracene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Fluoranthene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Pyrene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Benzo (a) anthracene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Chrysene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Benzo (b) fluoranthene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Benzo (k) fluoranthene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Benzo (a) pyrene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Dibenzo (a,h) anthracene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00
Benzo (ghi) perylene	ND		0.0996		ug/L		08/27/14 09:20	08/28/14 13:07	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*85.3*		*32.7 - 135*	*08/27/14 09:20*	*08/28/14 13:07*	*1.00*
2-FBP	*78.7*		*44.3 - 120*	*08/27/14 09:20*	*08/28/14 13:07*	*1.00*
p-Terphenyl-d14	*87.2*		*59.5 - 154*	*08/27/14 09:20*	*08/28/14 13:07*	*1.00*

Client Sample ID: Trip Blank
Lab Sample ID: 230-262-12

Date Collected: 08/21/14 00:00
Matrix: Water
Date Received: 08/22/14 11:57

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 13:19	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/23/14 13:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/23/14 13:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/23/14 13:19	1
1,1-Dichloroethane	ND		1.00		ug/L			08/23/14 13:19	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: Trip Blank
Date Collected: 08/21/14 00:00
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			08/23/14 13:19	1
1,1-Dichloropropene	ND		1.00		ug/L			08/23/14 13:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/23/14 13:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/23/14 13:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/23/14 13:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,2-Dichloroethane	ND		1.00		ug/L			08/23/14 13:19	1
1,2-Dichloropropane	ND		1.00		ug/L			08/23/14 13:19	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/23/14 13:19	1
1,3-Dichloropropane	ND		1.00		ug/L			08/23/14 13:19	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/23/14 13:19	1
2,2-Dichloropropane	ND		1.00		ug/L			08/23/14 13:19	1
2-Butanone (MEK)	ND		10.0		ug/L			08/23/14 13:19	1
2-Chlorotoluene	ND		1.00		ug/L			08/23/14 13:19	1
2-Hexanone	ND		10.0		ug/L			08/23/14 13:19	1
4-Chlorotoluene	ND		1.00		ug/L			08/23/14 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/23/14 13:19	1
Acetone	ND		10.0		ug/L			08/23/14 13:19	1
Benzene	ND		0.500		ug/L			08/23/14 13:19	1
Bromobenzene	ND		1.00		ug/L			08/23/14 13:19	1
Bromochloromethane	ND		1.00		ug/L			08/23/14 13:19	1
Bromodichloromethane	ND		1.00		ug/L			08/23/14 13:19	1
Bromoform	ND		1.00		ug/L			08/23/14 13:19	1
Bromomethane	ND		5.00		ug/L			08/23/14 13:19	1
Carbon disulfide	ND		10.0		ug/L			08/23/14 13:19	1
Carbon tetrachloride	ND		1.00		ug/L			08/23/14 13:19	1
Chlorobenzene	ND		1.00		ug/L			08/23/14 13:19	1
Chlorodibromomethane	ND		1.00		ug/L			08/23/14 13:19	1
Chloroethane	ND		1.00		ug/L			08/23/14 13:19	1
Chloroform	ND		1.00		ug/L			08/23/14 13:19	1
Chloromethane	ND		5.00		ug/L			08/23/14 13:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 13:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 13:19	1
Dibromomethane	ND		1.00		ug/L			08/23/14 13:19	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/23/14 13:19	1
Ethylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
Hexachlorobutadiene	ND		2.00		ug/L			08/23/14 13:19	1
Isopropylbenzene	ND		2.00		ug/L			08/23/14 13:19	1
m,p-Xylene	ND		2.00		ug/L			08/23/14 13:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/23/14 13:19	1
Methylene Chloride	ND		5.00		ug/L			08/23/14 13:19	1
Naphthalene	ND		4.00		ug/L			08/23/14 13:19	1
n-Butylbenzene	ND		5.00		ug/L			08/23/14 13:19	1
N-Propylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
o-Xylene	ND		1.00		ug/L			08/23/14 13:19	1

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: Trip Blank
Date Collected: 08/21/14 00:00
Date Received: 08/22/14 11:57

Lab Sample ID: 230-262-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		2.00		ug/L			08/23/14 13:19	1
sec-Butylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
Styrene	ND		1.00		ug/L			08/23/14 13:19	1
tert-Butylbenzene	ND		1.00		ug/L			08/23/14 13:19	1
Tetrachloroethene	ND		1.00		ug/L			08/23/14 13:19	1
Toluene	ND		1.00		ug/L			08/23/14 13:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/23/14 13:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/23/14 13:19	1
Trichloroethene	ND		1.00		ug/L			08/23/14 13:19	1
Trichlorofluoromethane	ND		1.00		ug/L			08/23/14 13:19	1
Vinyl chloride	ND		1.00		ug/L			08/23/14 13:19	1
Xylenes, Total	ND		1.00		ug/L			08/23/14 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*57.8 - 139*		*08/23/14 13:19*	*1*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*		*08/23/14 13:19*	*1*
Toluene-d8 (Surr)	*98*		*38.6 - 147*		*08/23/14 13:19*	*1*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50.0		ug/L			08/23/14 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/23/14 13:19*	*1*
Dibromofluoromethane (Surr)	*100*		*72.7 - 135*		*08/23/14 13:19*	*1*
Toluene-d8 (Surr)	*98*		*72.4 - 121*		*08/23/14 13:19*	*1*

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(57.8-139)	(35.8-145)	(38.6-147)
230-262-1	DFSPA-MW2R	98	100	99
230-262-1 DU	DFSPA-MW2R	98	100	99
230-262-2	DFSPA-MW22	99	98	99
230-262-3	DFSPA-MW25C	104	103	98
230-262-3	DFSPA-MW25C	99	107	98
230-262-4	DFSPA-MW25B	104	99	98
230-262-4	DFSPA-MW25B	101	100	99
230-262-5	DFSPA-MW25A	102	100	99
230-262-5	DFSPA-MW25A	101	99	99
230-262-6	DFSPA-MW25BD	104	99	98
230-262-6	DFSPA-MW25BD	101	103	98
230-262-7	DFSPA-MW15R	103	99	96
230-262-7	DFSPA-MW15R	100	98	98
230-262-7	DFSPA-MW15R	100	101	98
230-262-7 DU	DFSPA-MW15R	101	99	98
230-262-8	DFSPA-MW23	102	98	100
230-262-8	DFSPA-MW23	96	100	97
230-262-9	DFSPA-MW4R	99	103	97
230-262-10	DFSPA-SS14	101	98	98
230-262-11	DFSPA-SS12	98	103	98
230-262-12	Trip Blank	100	100	98
LCS 230-1004/1010	Lab Control Sample	103	98	105
LCS 230-1018/1010	Lab Control Sample	101	99	97
LCS 230-1036/1011	Lab Control Sample	104	98	101
LCSD 230-1004/11	Lab Control Sample Dup	103	96	98
LCSD 230-1018/11	Lab Control Sample Dup	102	97	99
LCSD 230-1036/12	Lab Control Sample Dup	101	99	98
MB 230-1004/14	Method Blank	99	99	100
MB 230-1018/24	Method Blank	99	101	100
MB 230-1036/29	Method Blank	97	103	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(72.7-135)	(72.4-121)
230-262-1	DFSPA-MW2R	98	100	99
230-262-1 DU	DFSPA-MW2R	98	100	99
230-262-2	DFSPA-MW22	99	98	99
230-262-3	DFSPA-MW25C	104	103	98
230-262-4	DFSPA-MW25B	104	99	98
230-262-5	DFSPA-MW25A	102	100	99
230-262-6	DFSPA-MW25BD	104	99	98

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(72.7-135)	(72.4-121)
230-262-7	DFSPA-MW15R	103	99	96
230-262-8	DFSPA-MW23	102	98	100
230-262-9	DFSPA-MW4R	99	103	97
230-262-12	Trip Blank	100	100	98
LCS 230-1003/1012	Lab Control Sample	101	100	100
LCSD 230-1003/13	Lab Control Sample Dup	98	97	99
MB 230-1003/14	Method Blank	99	99	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Matrix: Water **Prep Type: Total**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	2-FBP	Terphenyl-d
Lab Sample ID	Client Sample ID	(32.7-135)	(44.3-120)	(59.5-154)
14H0153-BLK1	Method Blank	73.4	74.6	90.4
14H0153-BS1	Lab Control Sample	86.7	85.5	89.5
14H0153-BSD1	Lab Control Sample Dup	76.4	73.3	86.1
230-262-10	DFSPA-SS14	88.7	77.7	91.7
230-262-11	DFSPA-SS12	85.3	78.7	87.2

Surrogate Legend

NBZ = Nitrobenzene-d5
2-FBP = 2-FBP
p-Terphenyl-d14 = p-Terphenyl-d14

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		1COD
Lab Sample ID	Client Sample ID	(50-150)
230-262-1	DFSPA-MW2R	101
230-262-2	DFSPA-MW22	101
230-262-2 DU	DFSPA-MW22	94
230-262-3	DFSPA-MW25C	100
230-262-4	DFSPA-MW25B	99
230-262-5	DFSPA-MW25A	96
230-262-6	DFSPA-MW25BD	102
230-262-7	DFSPA-MW15R	105
230-262-8	DFSPA-MW23	106
230-262-9	DFSPA-MW4R	98
LCS 230-1019/2-A	Lab Control Sample	98
LCS 230-1045/2-A	Lab Control Sample	112
LCSD 230-1019/3-A	Lab Control Sample Dup	99
LCSD 230-1045/3-A	Lab Control Sample Dup	102

Surrogate Summary

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		1COD
Lab Sample ID	**Client Sample ID**	**(50-150)**
MB 230-1019/1-A	Method Blank	91
MB 230-1045/1-A	Method Blank	99

Surrogate Legend

1COD = 1-Chlorooctadecane

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 230-1004/14
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,1-Dichloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,1-Dichloroethene	ND		1.00		ug/L			08/22/14 23:58	1
1,1-Dichloropropene	ND		1.00		ug/L			08/22/14 23:58	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/22/14 23:58	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/22/14 23:58	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/22/14 23:58	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,2-Dichloroethane	ND		1.00		ug/L			08/22/14 23:58	1
1,2-Dichloropropane	ND		1.00		ug/L			08/22/14 23:58	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/22/14 23:58	1
1,3-Dichloropropane	ND		1.00		ug/L			08/22/14 23:58	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/22/14 23:58	1
2,2-Dichloropropane	ND		1.00		ug/L			08/22/14 23:58	1
2-Butanone (MEK)	ND		10.0		ug/L			08/22/14 23:58	1
2-Chlorotoluene	ND		1.00		ug/L			08/22/14 23:58	1
2-Hexanone	ND		10.0		ug/L			08/22/14 23:58	1
4-Chlorotoluene	ND		1.00		ug/L			08/22/14 23:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/22/14 23:58	1
Acetone	ND		10.0		ug/L			08/22/14 23:58	1
Benzene	ND		0.500		ug/L			08/22/14 23:58	1
Bromobenzene	ND		1.00		ug/L			08/22/14 23:58	1
Bromochloromethane	ND		1.00		ug/L			08/22/14 23:58	1
Bromodichloromethane	ND		1.00		ug/L			08/22/14 23:58	1
Bromoform	ND		1.00		ug/L			08/22/14 23:58	1
Bromomethane	ND		5.00		ug/L			08/22/14 23:58	1
Carbon disulfide	ND		10.0		ug/L			08/22/14 23:58	1
Carbon tetrachloride	ND		1.00		ug/L			08/22/14 23:58	1
Chlorobenzene	ND		1.00		ug/L			08/22/14 23:58	1
Chlorodibromomethane	ND		1.00		ug/L			08/22/14 23:58	1
Chloroethane	ND		1.00		ug/L			08/22/14 23:58	1
Chloroform	ND		1.00		ug/L			08/22/14 23:58	1
Chloromethane	ND		5.00		ug/L			08/22/14 23:58	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/22/14 23:58	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/22/14 23:58	1
Dibromomethane	ND		1.00		ug/L			08/22/14 23:58	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/22/14 23:58	1
Ethylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
Hexachlorobutadiene	ND		2.00		ug/L			08/22/14 23:58	1
Isopropylbenzene	ND		2.00		ug/L			08/22/14 23:58	1
m,p-Xylene	ND		2.00		ug/L			08/22/14 23:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 230-1004/14
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.00		ug/L			08/22/14 23:58	1
Methylene Chloride	ND		5.00		ug/L			08/22/14 23:58	1
Naphthalene	ND		4.00		ug/L			08/22/14 23:58	1
n-Butylbenzene	ND		5.00		ug/L			08/22/14 23:58	1
N-Propylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
o-Xylene	ND		1.00		ug/L			08/22/14 23:58	1
p-Isopropyltoluene	ND		2.00		ug/L			08/22/14 23:58	1
sec-Butylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
Styrene	ND		1.00		ug/L			08/22/14 23:58	1
tert-Butylbenzene	ND		1.00		ug/L			08/22/14 23:58	1
Tetrachloroethene	ND		1.00		ug/L			08/22/14 23:58	1
Toluene	ND		1.00		ug/L			08/22/14 23:58	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/22/14 23:58	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/22/14 23:58	1
Trichloroethene	ND		1.00		ug/L			08/22/14 23:58	1
Trichlorofluoromethane	ND		1.00		ug/L			08/22/14 23:58	1
Vinyl chloride	ND		1.00		ug/L			08/22/14 23:58	1
Xylenes, Total	ND		1.00		ug/L			08/22/14 23:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*57.8 - 139*		*08/22/14 23:58*	*1*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*		*08/22/14 23:58*	*1*
Toluene-d8 (Surr)	*100*		*38.6 - 147*		*08/22/14 23:58*	*1*

Lab Sample ID: LCS 230-1004/1010
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.47		ug/L		97	78.6 - 126
1,1,1-Trichloroethane	20.0	18.75		ug/L		94	71.8 - 136
1,1,2,2-Tetrachloroethane	20.0	20.25		ug/L		101	71.1 - 136
1,1,2-Trichloroethane	20.0	19.42		ug/L		97	74.8 - 132
1,1-Dichloroethane	20.0	19.02		ug/L		95	67.3 - 140
1,1-Dichloroethene	20.0	18.98		ug/L		95	63.5 - 140
1,1-Dichloropropene	20.0	19.50		ug/L		98	63.9 - 138
1,2,3-Trichlorobenzene	20.0	15.02		ug/L		75	34.2 - 138
1,2,3-Trichloropropane	20.0	19.68		ug/L		98	73.4 - 134
1,2,4-Trichlorobenzene	20.0	15.06		ug/L		75	30.3 - 151
1,2,4-Trimethylbenzene	20.0	18.18		ug/L		91	71.1 - 141
1,2-Dibromo-3-Chloropropane	20.0	15.82		ug/L		79	55.7 - 147
1,2-Dibromoethane (EDB)	20.0	19.20		ug/L		96	76.7 - 128
1,2-Dichlorobenzene	20.0	20.18		ug/L		101	76.6 - 139
1,2-Dichloroethane	20.0	18.64		ug/L		93	76.4 - 129
1,2-Dichloropropane	20.0	19.25		ug/L		96	72.2 - 130
1,3,5-Trimethylbenzene	20.0	20.02		ug/L		100	74.6 - 143
1,3-Dichlorobenzene	20.0	18.85		ug/L		94	73.3 - 140
1,3-Dichloropropane	20.0	18.55		ug/L		93	76.6 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1004/1010
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	20.0	18.55		ug/L		93	73.6 - 140
2,2-Dichloropropane	20.0	21.34		ug/L		107	61.7 - 157
2-Butanone (MEK)	20.0	15.39		ug/L		77	57.2 - 147
2-Chlorotoluene	20.0	18.50		ug/L		92	65.3 - 138
2-Hexanone	20.0	15.63		ug/L		78	34.7 - 149
4-Chlorotoluene	20.0	17.13		ug/L		86	74.4 - 137
4-Methyl-2-pentanone (MIBK)	20.0	18.38		ug/L		92	59.6 - 137
Acetone	20.0	12.72		ug/L		64	46 - 166
Benzene	20.0	19.34		ug/L		97	73.8 - 128
Bromobenzene	20.0	19.91		ug/L		100	77.9 - 133
Bromochloromethane	20.0	19.63		ug/L		98	70 - 137
Bromodichloromethane	20.0	18.67		ug/L		93	80.2 - 129
Bromoform	20.0	19.20		ug/L		96	75.6 - 135
Bromomethane	20.0	18.35		ug/L		92	50.1 - 156
Carbon disulfide	20.0	19.08		ug/L		95	38.2 - 148
Carbon tetrachloride	20.0	18.77		ug/L		94	76.6 - 136
Chlorobenzene	20.0	19.52		ug/L		98	78.7 - 123
Chlorodibromomethane	20.0	19.58		ug/L		98	78.3 - 131
Chloroethane	20.0	19.25		ug/L		96	43.4 - 159
Chloroform	20.0	18.25		ug/L		91	68.8 - 137
Chloromethane	20.0	19.50		ug/L		97	38.7 - 159
cis-1,2-Dichloroethene	20.0	19.38		ug/L		97	68.8 - 139
cis-1,3-Dichloropropene	20.0	20.14		ug/L		101	77.7 - 134
Dibromomethane	20.0	18.48		ug/L		92	78.4 - 129
Dichlorodifluoromethane	20.0	20.81		ug/L		104	54.5 - 152
Ethylbenzene	20.0	20.33		ug/L		102	78 - 130
Hexachlorobutadiene	20.0	18.19		ug/L		91	61.1 - 147
Isopropylbenzene	20.0	20.45		ug/L		102	77.1 - 135
m,p-Xylene	40.0	41.41		ug/L		104	76 - 137
Methyl tert-butyl ether	20.0	19.04		ug/L		95	62.4 - 149
Methylene Chloride	20.0	20.60		ug/L		103	42.5 - 158
Naphthalene	20.0	18.49		ug/L		92	50.8 - 139
n-Butylbenzene	20.0	17.01		ug/L		85	65.2 - 147
N-Propylbenzene	20.0	20.51		ug/L		103	77.2 - 137
o-Xylene	20.0	19.85		ug/L		99	75.1 - 137
p-Isopropyltoluene	20.0	17.59		ug/L		88	72.9 - 136
sec-Butylbenzene	20.0	18.37		ug/L		92	77.8 - 139
Styrene	20.0	17.55		ug/L		88	59.9 - 144
tert-Butylbenzene	20.0	17.53		ug/L		88	76.3 - 135
Tetrachloroethene	20.0	19.36		ug/L		97	74.1 - 127
Toluene	20.0	19.71		ug/L		99	75.6 - 124
trans-1,2-Dichloroethene	20.0	18.94		ug/L		95	62.8 - 137
trans-1,3-Dichloropropene	20.0	20.65		ug/L		103	76.8 - 137
Trichloroethene	20.0	17.60		ug/L		88	78.3 - 126
Trichlorofluoromethane	20.0	19.56		ug/L		98	67.7 - 144
Vinyl chloride	20.0	20.57		ug/L		103	45 - 162
Xylenes, Total	60.0	61.26		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1004/1010
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		57.8 - 139
Dibromofluoromethane (Surr)	98		35.8 - 145
Toluene-d8 (Surr)	105		38.6 - 147

Lab Sample ID: LCSD 230-1004/11
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	19.93		ug/L		100	78.6 - 126	2	20
1,1,1-Trichloroethane			20.0	19.32		ug/L		97	71.8 - 136	3	20
1,1,2,2-Tetrachloroethane			20.0	20.20		ug/L		101	71.1 - 136	0	20
1,1,2-Trichloroethane			20.0	19.58		ug/L		98	74.8 - 132	1	20
1,1-Dichloroethane			20.0	19.63		ug/L		98	67.3 - 140	3	20
1,1-Dichloroethene			20.0	20.41		ug/L		102	63.5 - 140	7	20
1,1-Dichloropropene			20.0	19.84		ug/L		99	63.9 - 138	2	20
1,2,3-Trichlorobenzene			20.0	16.49		ug/L		82	34.2 - 138	9	20
1,2,3-Trichloropropane			20.0	19.15		ug/L		96	73.4 - 134	3	20
1,2,4-Trichlorobenzene			20.0	16.12		ug/L		81	30.3 - 151	7	20
1,2,4-Trimethylbenzene			20.0	18.65		ug/L		93	71.1 - 141	3	20
1,2-Dibromo-3-Chloropropane			20.0	16.83		ug/L		84	55.7 - 147	6	20
1,2-Dibromoethane (EDB)			20.0	19.52		ug/L		98	76.7 - 128	2	20
1,2-Dichlorobenzene			20.0	20.79		ug/L		104	76.6 - 139	3	20
1,2-Dichloroethane			20.0	19.38		ug/L		97	76.4 - 129	4	20
1,2-Dichloropropane			20.0	19.63		ug/L		98	72.2 - 130	2	20
1,3,5-Trimethylbenzene			20.0	20.95		ug/L		105	74.6 - 143	5	20
1,3-Dichlorobenzene			20.0	19.60		ug/L		98	73.3 - 140	4	20
1,3-Dichloropropane			20.0	18.90		ug/L		94	76.6 - 127	2	20
1,4-Dichlorobenzene			20.0	19.36		ug/L		97	73.6 - 140	4	20
2,2-Dichloropropane			20.0	22.46		ug/L		112	61.7 - 157	5	20
2-Butanone (MEK)			20.0	17.30		ug/L		86	57.2 - 147	12	20
2-Chlorotoluene			20.0	19.30		ug/L		96	65.3 - 138	4	20
2-Hexanone			20.0	17.27		ug/L		86	34.7 - 149	10	20
4-Chlorotoluene			20.0	17.65		ug/L		88	74.4 - 137	3	20
4-Methyl-2-pentanone (MIBK)			20.0	19.29		ug/L		96	59.6 - 137	5	20
Acetone			20.0	14.06		ug/L		70	46 - 166	10	20
Benzene			20.0	19.75		ug/L		99	73.8 - 128	2	20
Bromobenzene			20.0	20.12		ug/L		101	77.9 - 133	1	20
Bromochloromethane			20.0	20.01		ug/L		100	70 - 137	2	20
Bromodichloromethane			20.0	19.37		ug/L		97	80.2 - 129	4	20
Bromoform			20.0	19.77		ug/L		99	75.6 - 135	3	20
Bromomethane			20.0	21.45		ug/L		107	50.1 - 156	16	20
Carbon disulfide			20.0	19.89		ug/L		99	38.2 - 148	4	20
Carbon tetrachloride			20.0	19.79		ug/L		99	76.6 - 136	5	20
Chlorobenzene			20.0	19.79		ug/L		99	78.7 - 123	1	20
Chlorodibromomethane			20.0	19.79		ug/L		99	78.3 - 131	1	20
Chloroethane			20.0	19.12		ug/L		96	43.4 - 159	1	20
Chloroform			20.0	19.09		ug/L		95	68.8 - 137	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 230-1004/11
Matrix: Water
Analysis Batch: 1004

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			20.0	20.81		ug/L		104	38.7 - 159	7	20
cis-1,2-Dichloroethene			20.0	19.93		ug/L		100	68.8 - 139	3	20
cis-1,3-Dichloropropene			20.0	20.72		ug/L		104	77.7 - 134	3	20
Dibromomethane			20.0	19.05		ug/L		95	78.4 - 129	3	20
Dichlorodifluoromethane			20.0	21.51		ug/L		108	54.5 - 152	3	20
Ethylbenzene			20.0	20.67		ug/L		103	78 - 130	2	20
Hexachlorobutadiene			20.0	19.08		ug/L		95	61.1 - 147	5	20
Isopropylbenzene			20.0	21.26		ug/L		106	77.1 - 135	4	20
m,p-Xylene			40.0	41.56		ug/L		104	76 - 137	0	20
Methyl tert-butyl ether			20.0	19.84		ug/L		99	62.4 - 149	4	20
Methylene Chloride			20.0	21.05		ug/L		105	42.5 - 158	2	20
Naphthalene			20.0	19.96		ug/L		100	50.8 - 139	8	20
n-Butylbenzene			20.0	17.84		ug/L		89	65.2 - 147	5	20
N-Propylbenzene			20.0	21.10		ug/L		105	77.2 - 137	3	20
o-Xylene			20.0	20.17		ug/L		101	75.1 - 137	2	20
p-Isopropyltoluene			20.0	18.01		ug/L		90	72.9 - 136	2	20
sec-Butylbenzene			20.0	19.13		ug/L		96	77.8 - 139	4	20
Styrene			20.0	18.05		ug/L		90	59.9 - 144	3	20
tert-Butylbenzene			20.0	18.15		ug/L		91	76.3 - 135	3	20
Tetrachloroethene			20.0	19.65		ug/L		98	74.1 - 127	1	20
Toluene			20.0	19.95		ug/L		100	75.6 - 124	1	20
trans-1,2-Dichloroethene			20.0	19.29		ug/L		96	62.8 - 137	2	20
trans-1,3-Dichloropropene			20.0	20.71		ug/L		104	76.8 - 137	0	20
Trichloroethene			20.0	18.70		ug/L		94	78.3 - 126	6	20
Trichlorofluoromethane			20.0	20.38		ug/L		102	67.7 - 144	4	20
Vinyl chloride			20.0	21.85		ug/L		109	45 - 162	6	20
Xylenes, Total			60.0	61.73		ug/L		103	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*57.8 - 139*
Dibromofluoromethane (Surr)	*96*		*35.8 - 145*
Toluene-d8 (Surr)	*98*		*38.6 - 147*

Lab Sample ID: 230-262-1 DU
Matrix: Water
Analysis Batch: 1004

Client Sample ID: DFSPA-MW2R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 230-262-1 DU
Matrix: Water
Analysis Batch: 1004

Client Sample ID: DFSPA-MW2R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,2,4-Trimethylbenzene	ND			ND		ug/L				NC	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	ND			ND		ug/L				NC	20
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone (MEK)	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone (MIBK)	ND			ND		ug/L				NC	20
Acetone	ND			ND		ug/L				NC	20
Benzene	ND			ND		ug/L				NC	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromochloromethane	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND			ND		ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chlorodibromomethane	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	ND			ND		ug/L				NC	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	ND			ND		ug/L				NC	20
m,p-Xylene	ND			ND		ug/L				NC	20
Methyl tert-butyl ether	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
Naphthalene	6.68			6.626		ug/L				0.8	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	ND			ND		ug/L				NC	20
o-Xylene	ND			ND		ug/L				NC	20
p-Isopropyltoluene	ND			ND		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 230-262-1 DU
Matrix: Water
Analysis Batch: 1004

Client Sample ID: DFSPA-MW2R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Tetrachloroethene	ND			ND		ug/L				NC	20
Toluene	ND			ND		ug/L				NC	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	ND			ND		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*57.8 - 139*
Dibromofluoromethane (Surr)	*100*		*35.8 - 145*
Toluene-d8 (Surr)	*99*		*38.6 - 147*

Lab Sample ID: MB 230-1018/24
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,1-Dichloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,1-Dichloroethene	ND		1.00		ug/L			08/26/14 16:55	1
1,1-Dichloropropene	ND		1.00		ug/L			08/26/14 16:55	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/26/14 16:55	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/26/14 16:55	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/26/14 16:55	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,2-Dichloroethane	ND		1.00		ug/L			08/26/14 16:55	1
1,2-Dichloropropane	ND		1.00		ug/L			08/26/14 16:55	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/26/14 16:55	1
1,3-Dichloropropane	ND		1.00		ug/L			08/26/14 16:55	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/26/14 16:55	1
2,2-Dichloropropane	ND		1.00		ug/L			08/26/14 16:55	1
2-Butanone (MEK)	ND		10.0		ug/L			08/26/14 16:55	1
2-Chlorotoluene	ND		1.00		ug/L			08/26/14 16:55	1
2-Hexanone	ND		10.0		ug/L			08/26/14 16:55	1
4-Chlorotoluene	ND		1.00		ug/L			08/26/14 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/26/14 16:55	1
Acetone	ND		10.0		ug/L			08/26/14 16:55	1
Benzene	ND		0.500		ug/L			08/26/14 16:55	1
Bromobenzene	ND		1.00		ug/L			08/26/14 16:55	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 230-1018/24
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		1.00		ug/L			08/26/14 16:55	1
Bromodichloromethane	ND		1.00		ug/L			08/26/14 16:55	1
Bromoform	ND		1.00		ug/L			08/26/14 16:55	1
Bromomethane	ND		5.00		ug/L			08/26/14 16:55	1
Carbon disulfide	ND		10.0		ug/L			08/26/14 16:55	1
Carbon tetrachloride	ND		1.00		ug/L			08/26/14 16:55	1
Chlorobenzene	ND		1.00		ug/L			08/26/14 16:55	1
Chlorodibromomethane	ND		1.00		ug/L			08/26/14 16:55	1
Chloroethane	ND		1.00		ug/L			08/26/14 16:55	1
Chloroform	ND		1.00		ug/L			08/26/14 16:55	1
Chloromethane	ND		5.00		ug/L			08/26/14 16:55	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/26/14 16:55	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/26/14 16:55	1
Dibromomethane	ND		1.00		ug/L			08/26/14 16:55	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/26/14 16:55	1
Ethylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
Hexachlorobutadiene	ND		2.00		ug/L			08/26/14 16:55	1
Isopropylbenzene	ND		2.00		ug/L			08/26/14 16:55	1
m,p-Xylene	ND		2.00		ug/L			08/26/14 16:55	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/26/14 16:55	1
Methylene Chloride	ND		5.00		ug/L			08/26/14 16:55	1
Naphthalene	ND		4.00		ug/L			08/26/14 16:55	1
n-Butylbenzene	ND		5.00		ug/L			08/26/14 16:55	1
N-Propylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
o-Xylene	ND		1.00		ug/L			08/26/14 16:55	1
p-Isopropyltoluene	ND		2.00		ug/L			08/26/14 16:55	1
sec-Butylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
Styrene	ND		1.00		ug/L			08/26/14 16:55	1
tert-Butylbenzene	ND		1.00		ug/L			08/26/14 16:55	1
Tetrachloroethene	ND		1.00		ug/L			08/26/14 16:55	1
Toluene	ND		1.00		ug/L			08/26/14 16:55	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/26/14 16:55	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/26/14 16:55	1
Trichloroethene	ND		1.00		ug/L			08/26/14 16:55	1
Trichlorofluoromethane	ND		1.00		ug/L			08/26/14 16:55	1
Vinyl chloride	ND		1.00		ug/L			08/26/14 16:55	1
Xylenes, Total	ND		1.00		ug/L			08/26/14 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*57.8 - 139*		*08/26/14 16:55*	*1*
Dibromofluoromethane (Surr)	*101*		*35.8 - 145*		*08/26/14 16:55*	*1*
Toluene-d8 (Surr)	*100*		*38.6 - 147*		*08/26/14 16:55*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1018/1010
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.24		ug/L		101	78.6 - 126
1,1,1-Trichloroethane	20.0	20.62		ug/L		103	71.8 - 136
1,1,2,2-Tetrachloroethane	20.0	20.55		ug/L		103	71.1 - 136
1,1,2-Trichloroethane	20.0	20.41		ug/L		102	74.8 - 132
1,1-Dichloroethane	20.0	20.86		ug/L		104	67.3 - 140
1,1-Dichloroethene	20.0	21.24		ug/L		106	63.5 - 140
1,1-Dichloropropene	20.0	21.55		ug/L		108	63.9 - 138
1,2,3-Trichlorobenzene	20.0	17.54		ug/L		88	34.2 - 138
1,2,3-Trichloropropane	20.0	21.93		ug/L		110	73.4 - 134
1,2,4-Trichlorobenzene	20.0	17.00		ug/L		85	30.3 - 151
1,2,4-Trimethylbenzene	20.0	19.54		ug/L		98	71.1 - 141
1,2-Dibromo-3-Chloropropane	20.0	17.96		ug/L		90	55.7 - 147
1,2-Dibromoethane (EDB)	20.0	20.24		ug/L		101	76.7 - 128
1,2-Dichlorobenzene	20.0	21.75		ug/L		109	76.6 - 139
1,2-Dichloroethane	20.0	19.69		ug/L		98	76.4 - 129
1,2-Dichloropropane	20.0	21.53		ug/L		108	72.2 - 130
1,3,5-Trimethylbenzene	20.0	21.58		ug/L		108	74.6 - 143
1,3-Dichlorobenzene	20.0	20.04		ug/L		100	73.3 - 140
1,3-Dichloropropane	20.0	19.75		ug/L		99	76.6 - 127
1,4-Dichlorobenzene	20.0	19.73		ug/L		99	73.6 - 140
2,2-Dichloropropane	20.0	25.09		ug/L		125	61.7 - 157
2-Butanone (MEK)	20.0	21.68		ug/L		108	57.2 - 147
2-Chlorotoluene	20.0	19.71		ug/L		99	65.3 - 138
2-Hexanone	20.0	21.73		ug/L		109	34.7 - 149
4-Chlorotoluene	20.0	18.10		ug/L		90	74.4 - 137
4-Methyl-2-pentanone (MIBK)	20.0	21.33		ug/L		107	59.6 - 137
Acetone	20.0	26.00		ug/L		130	46 - 166
Benzene	20.0	20.81		ug/L		104	73.8 - 128
Bromobenzene	20.0	20.54		ug/L		103	77.9 - 133
Bromochloromethane	20.0	22.09		ug/L		110	70 - 137
Bromodichloromethane	20.0	20.47		ug/L		102	80.2 - 129
Bromoform	20.0	19.99		ug/L		100	75.6 - 135
Bromomethane	20.0	19.14		ug/L		96	50.1 - 156
Carbon disulfide	20.0	21.39		ug/L		107	38.2 - 148
Carbon tetrachloride	20.0	20.32		ug/L		102	76.6 - 136
Chlorobenzene	20.0	20.46		ug/L		102	78.7 - 123
Chlorodibromomethane	20.0	19.87		ug/L		99	78.3 - 131
Chloroethane	20.0	19.69		ug/L		98	43.4 - 159
Chloroform	20.0	20.24		ug/L		101	68.8 - 137
Chloromethane	20.0	19.51		ug/L		98	38.7 - 159
cis-1,2-Dichloroethene	20.0	22.16		ug/L		111	68.8 - 139
cis-1,3-Dichloropropene	20.0	22.56		ug/L		113	77.7 - 134
Dibromomethane	20.0	20.53		ug/L		103	78.4 - 129
Dichlorodifluoromethane	20.0	20.58		ug/L		103	54.5 - 152
Ethylbenzene	20.0	20.99		ug/L		105	78 - 130
Hexachlorobutadiene	20.0	19.61		ug/L		98	61.1 - 147
Isopropylbenzene	20.0	21.69		ug/L		108	77.1 - 135
m,p-Xylene	40.0	41.94		ug/L		105	76 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1018/1010
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	20.0	21.48		ug/L		107	62.4 - 149
Methylene Chloride	20.0	21.67		ug/L		108	42.5 - 158
Naphthalene	20.0	20.58		ug/L		103	50.8 - 139
n-Butylbenzene	20.0	18.88		ug/L		94	65.2 - 147
N-Propylbenzene	20.0	21.87		ug/L		109	77.2 - 137
o-Xylene	20.0	20.49		ug/L		102	75.1 - 137
p-Isopropyltoluene	20.0	18.67		ug/L		93	72.9 - 136
sec-Butylbenzene	20.0	20.06		ug/L		100	77.8 - 139
Styrene	20.0	18.42		ug/L		92	59.9 - 144
tert-Butylbenzene	20.0	18.93		ug/L		95	76.3 - 135
Tetrachloroethene	20.0	20.05		ug/L		100	74.1 - 127
Toluene	20.0	20.84		ug/L		104	75.6 - 124
trans-1,2-Dichloroethene	20.0	21.08		ug/L		105	62.8 - 137
trans-1,3-Dichloropropene	20.0	22.26		ug/L		111	76.8 - 137
Trichloroethene	20.0	20.24		ug/L		101	78.3 - 126
Trichlorofluoromethane	20.0	21.01		ug/L		105	67.7 - 144
Vinyl chloride	20.0	20.61		ug/L		103	45 - 162
Xylenes, Total	60.0	62.43		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*
Toluene-d8 (Surr)	*97*		*38.6 - 147*

Lab Sample ID: LCSD 230-1018/11
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	22.54		ug/L		113	78.6 - 126	11	20
1,1,1-Trichloroethane	20.0	20.77		ug/L		104	71.8 - 136	1	20
1,1,2,2-Tetrachloroethane	20.0	23.51		ug/L		118	71.1 - 136	13	20
1,1,2-Trichloroethane	20.0	22.71		ug/L		114	74.8 - 132	11	20
1,1-Dichloroethane	20.0	21.46		ug/L		107	67.3 - 140	3	20
1,1-Dichloroethene	20.0	21.91		ug/L		110	63.5 - 140	3	20
1,1-Dichloropropene	20.0	22.65		ug/L		113	63.9 - 138	5	20
1,2,3-Trichlorobenzene	20.0	19.74		ug/L		99	34.2 - 138	12	20
1,2,3-Trichloropropane	20.0	24.04		ug/L		120	73.4 - 134	9	20
1,2,4-Trichlorobenzene	20.0	18.68		ug/L		93	30.3 - 151	9	20
1,2,4-Trimethylbenzene	20.0	20.90		ug/L		104	71.1 - 141	7	20
1,2-Dibromo-3-Chloropropane	20.0	20.81		ug/L		104	55.7 - 147	15	20
1,2-Dibromoethane (EDB)	20.0	22.19		ug/L		111	76.7 - 128	9	20
1,2-Dichlorobenzene	20.0	23.01		ug/L		115	76.6 - 139	6	20
1,2-Dichloroethane	20.0	21.13		ug/L		106	76.4 - 129	7	20
1,2-Dichloropropane	20.0	22.69		ug/L		113	72.2 - 130	5	20
1,3,5-Trimethylbenzene	20.0	23.09		ug/L		115	74.6 - 143	7	20
1,3-Dichlorobenzene	20.0	21.49		ug/L		107	73.3 - 140	7	20
1,3-Dichloropropane	20.0	21.37		ug/L		107	76.6 - 127	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 230-1018/11
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.00		ug/L		105	73.6 - 140	6	20
2,2-Dichloropropane	20.0	25.45		ug/L		127	61.7 - 157	1	20
2-Butanone (MEK)	20.0	25.70		ug/L		128	57.2 - 147	17	20
2-Chlorotoluene	20.0	20.94		ug/L		105	65.3 - 138	6	20
2-Hexanone	20.0	26.38		ug/L		132	34.7 - 149	19	20
4-Chlorotoluene	20.0	19.42		ug/L		97	74.4 - 137	7	20
4-Methyl-2-pentanone (MIBK)	20.0	23.68		ug/L		118	59.6 - 137	10	20
Acetone	20.0	26.76		ug/L		134	46 - 166	3	20
Benzene	20.0	22.42		ug/L		112	73.8 - 128	7	20
Bromobenzene	20.0	22.50		ug/L		113	77.9 - 133	9	20
Bromochloromethane	20.0	23.05		ug/L		115	70 - 137	4	20
Bromodichloromethane	20.0	22.50		ug/L		112	80.2 - 129	9	20
Bromoform	20.0	22.46		ug/L		112	75.6 - 135	12	20
Bromomethane	20.0	21.12		ug/L		106	50.1 - 156	10	20
Carbon disulfide	20.0	22.19		ug/L		111	38.2 - 148	4	20
Carbon tetrachloride	20.0	21.54		ug/L		108	76.6 - 136	6	20
Chlorobenzene	20.0	22.05		ug/L		110	78.7 - 123	8	20
Chlorodibromomethane	20.0	22.09		ug/L		110	78.3 - 131	11	20
Chloroethane	20.0	19.16		ug/L		96	43.4 - 159	3	20
Chloroform	20.0	20.99		ug/L		105	68.8 - 137	4	20
Chloromethane	20.0	20.94		ug/L		105	38.7 - 159	7	20
cis-1,2-Dichloroethene	20.0	22.93		ug/L		115	68.8 - 139	3	20
cis-1,3-Dichloropropene	20.0	24.28		ug/L		121	77.7 - 134	7	20
Dibromomethane	20.0	21.79		ug/L		109	78.4 - 129	6	20
Dichlorodifluoromethane	20.0	20.87		ug/L		104	54.5 - 152	1	20
Ethylbenzene	20.0	23.59		ug/L		118	78 - 130	12	20
Hexachlorobutadiene	20.0	22.51		ug/L		113	61.1 - 147	14	20
Isopropylbenzene	20.0	23.07		ug/L		115	77.1 - 135	6	20
m,p-Xylene	40.0	46.66		ug/L		117	76 - 137	11	20
Methyl tert-butyl ether	20.0	23.01		ug/L		115	62.4 - 149	7	20
Methylene Chloride	20.0	22.17		ug/L		111	42.5 - 158	2	20
Naphthalene	20.0	23.34		ug/L		117	50.8 - 139	13	20
n-Butylbenzene	20.0	20.01		ug/L		100	65.2 - 147	6	20
N-Propylbenzene	20.0	23.39		ug/L		117	77.2 - 137	7	20
o-Xylene	20.0	22.82		ug/L		114	75.1 - 137	11	20
p-Isopropyltoluene	20.0	19.67		ug/L		98	72.9 - 136	5	20
sec-Butylbenzene	20.0	21.03		ug/L		105	77.8 - 139	5	20
Styrene	20.0	20.36		ug/L		102	59.9 - 144	10	20
tert-Butylbenzene	20.0	19.96		ug/L		100	76.3 - 135	5	20
Tetrachloroethene	20.0	21.89		ug/L		109	74.1 - 127	9	20
Toluene	20.0	22.15		ug/L		111	75.6 - 124	6	20
trans-1,2-Dichloroethene	20.0	22.17		ug/L		111	62.8 - 137	5	20
trans-1,3-Dichloropropene	20.0	23.93		ug/L		120	76.8 - 137	7	20
Trichloroethene	20.0	22.06		ug/L		110	78.3 - 126	9	20
Trichlorofluoromethane	20.0	21.74		ug/L		109	67.7 - 144	3	20
Vinyl chloride	20.0	21.76		ug/L		109	45 - 162	5	20
Xylenes, Total	60.0	69.48		ug/L		116	70 - 130	11	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 230-1018/11
Matrix: Water
Analysis Batch: 1018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*102*		*57.8 - 139*
Dibromofluoromethane (Surr)	*97*		*35.8 - 145*
Toluene-d8 (Surr)	*99*		*38.6 - 147*

Lab Sample ID: MB 230-1036/29
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,1,1-Trichloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,1,2-Trichloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,1-Dichloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,1-Dichloroethene	ND		1.00		ug/L			08/27/14 18:24	1
1,1-Dichloropropene	ND		1.00		ug/L			08/27/14 18:24	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,2,3-Trichloropropane	ND		1.00		ug/L			08/27/14 18:24	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			08/27/14 18:24	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/27/14 18:24	1
1,2-Dichlorobenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,2-Dichloroethane	ND		1.00		ug/L			08/27/14 18:24	1
1,2-Dichloropropane	ND		1.00		ug/L			08/27/14 18:24	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,3-Dichlorobenzene	ND		1.00		ug/L			08/27/14 18:24	1
1,3-Dichloropropane	ND		1.00		ug/L			08/27/14 18:24	1
1,4-Dichlorobenzene	ND		5.00		ug/L			08/27/14 18:24	1
2,2-Dichloropropane	ND		1.00		ug/L			08/27/14 18:24	1
2-Butanone (MEK)	ND		10.0		ug/L			08/27/14 18:24	1
2-Chlorotoluene	ND		1.00		ug/L			08/27/14 18:24	1
2-Hexanone	ND		10.0		ug/L			08/27/14 18:24	1
4-Chlorotoluene	ND		1.00		ug/L			08/27/14 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			08/27/14 18:24	1
Acetone	ND		10.0		ug/L			08/27/14 18:24	1
Benzene	ND		0.500		ug/L			08/27/14 18:24	1
Bromobenzene	ND		1.00		ug/L			08/27/14 18:24	1
Bromochloromethane	ND		1.00		ug/L			08/27/14 18:24	1
Bromodichloromethane	ND		1.00		ug/L			08/27/14 18:24	1
Bromoform	ND		1.00		ug/L			08/27/14 18:24	1
Bromomethane	ND		5.00		ug/L			08/27/14 18:24	1
Carbon disulfide	ND		10.0		ug/L			08/27/14 18:24	1
Carbon tetrachloride	ND		1.00		ug/L			08/27/14 18:24	1
Chlorobenzene	ND		1.00		ug/L			08/27/14 18:24	1
Chlorodibromomethane	ND		1.00		ug/L			08/27/14 18:24	1
Chloroethane	ND		1.00		ug/L			08/27/14 18:24	1
Chloroform	ND		1.00		ug/L			08/27/14 18:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 230-1036/29
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.00		ug/L			08/27/14 18:24	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			08/27/14 18:24	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			08/27/14 18:24	1
Dibromomethane	ND		1.00		ug/L			08/27/14 18:24	1
Dichlorodifluoromethane	ND		5.00		ug/L			08/27/14 18:24	1
Ethylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
Hexachlorobutadiene	ND		2.00		ug/L			08/27/14 18:24	1
Isopropylbenzene	ND		2.00		ug/L			08/27/14 18:24	1
m,p-Xylene	ND		2.00		ug/L			08/27/14 18:24	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/27/14 18:24	1
Methylene Chloride	ND		5.00		ug/L			08/27/14 18:24	1
Naphthalene	ND		4.00		ug/L			08/27/14 18:24	1
n-Butylbenzene	ND		5.00		ug/L			08/27/14 18:24	1
N-Propylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
o-Xylene	ND		1.00		ug/L			08/27/14 18:24	1
p-Isopropyltoluene	ND		2.00		ug/L			08/27/14 18:24	1
sec-Butylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
Styrene	ND		1.00		ug/L			08/27/14 18:24	1
tert-Butylbenzene	ND		1.00		ug/L			08/27/14 18:24	1
Tetrachloroethene	ND		1.00		ug/L			08/27/14 18:24	1
Toluene	ND		1.00		ug/L			08/27/14 18:24	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			08/27/14 18:24	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			08/27/14 18:24	1
Trichloroethene	ND		1.00		ug/L			08/27/14 18:24	1
Trichlorofluoromethane	ND		1.00		ug/L			08/27/14 18:24	1
Vinyl chloride	ND		1.00		ug/L			08/27/14 18:24	1
Xylenes, Total	ND		1.00		ug/L			08/27/14 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*57.8 - 139*		*08/27/14 18:24*	*1*
Dibromofluoromethane (Surr)	*103*		*35.8 - 145*		*08/27/14 18:24*	*1*
Toluene-d8 (Surr)	*97*		*38.6 - 147*		*08/27/14 18:24*	*1*

Lab Sample ID: LCS 230-1036/1011
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.55		ug/L		103	78.6 - 126
1,1,1-Trichloroethane	20.0	19.74		ug/L		99	71.8 - 136
1,1,2,2-Tetrachloroethane	20.0	22.34		ug/L		112	71.1 - 136
1,1,2-Trichloroethane	20.0	21.00		ug/L		105	74.8 - 132
1,1-Dichloroethane	20.0	19.66		ug/L		98	67.3 - 140
1,1-Dichloroethene	20.0	20.15		ug/L		101	63.5 - 140
1,1-Dichloropropene	20.0	20.27		ug/L		101	63.9 - 138
1,2,3-Trichlorobenzene	20.0	17.59		ug/L		88	34.2 - 138
1,2,3-Trichloropropane	20.0	22.04		ug/L		110	73.4 - 134
1,2,4-Trichlorobenzene	20.0	16.66		ug/L		83	30.3 - 151

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1036/1011
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	19.67		ug/L		98	71.1 - 141
1,2-Dibromo-3-Chloropropane	20.0	17.91		ug/L		90	55.7 - 147
1,2-Dibromoethane (EDB)	20.0	20.59		ug/L		103	76.7 - 128
1,2-Dichlorobenzene	20.0	22.03		ug/L		110	76.6 - 139
1,2-Dichloroethane	20.0	18.59		ug/L		93	76.4 - 129
1,2-Dichloropropane	20.0	20.71		ug/L		104	72.2 - 130
1,3,5-Trimethylbenzene	20.0	22.06		ug/L		110	74.6 - 143
1,3-Dichlorobenzene	20.0	20.31		ug/L		102	73.3 - 140
1,3-Dichloropropane	20.0	19.87		ug/L		99	76.6 - 127
1,4-Dichlorobenzene	20.0	20.12		ug/L		101	73.6 - 140
2,2-Dichloropropane	20.0	22.57		ug/L		113	61.7 - 157
2-Butanone (MEK)	20.0	17.04		ug/L		85	57.2 - 147
2-Chlorotoluene	20.0	20.26		ug/L		101	65.3 - 138
2-Hexanone	20.0	17.91		ug/L		90	34.7 - 149
4-Chlorotoluene	20.0	18.30		ug/L		92	74.4 - 137
4-Methyl-2-pentanone (MIBK)	20.0	19.50		ug/L		97	59.6 - 137
Acetone	20.0	13.40		ug/L		67	46 - 166
Benzene	20.0	20.43		ug/L		102	73.8 - 128
Bromobenzene	20.0	20.80		ug/L		104	77.9 - 133
Bromochloromethane	20.0	21.31		ug/L		107	70 - 137
Bromodichloromethane	20.0	19.42		ug/L		97	80.2 - 129
Bromoform	20.0	17.45		ug/L		87	75.6 - 135
Bromomethane	20.0	6.650	*	ug/L		33	50.1 - 156
Carbon disulfide	20.0	20.04		ug/L		100	38.2 - 148
Carbon tetrachloride	20.0	19.09		ug/L		95	76.6 - 136
Chlorobenzene	20.0	20.81		ug/L		104	78.7 - 123
Chlorodibromomethane	20.0	19.25		ug/L		96	78.3 - 131
Chloroethane	20.0	19.11		ug/L		96	43.4 - 159
Chloroform	20.0	19.27		ug/L		96	68.8 - 137
Chloromethane	20.0	17.00		ug/L		85	38.7 - 159
cis-1,2-Dichloroethene	20.0	20.89		ug/L		104	68.8 - 139
cis-1,3-Dichloropropene	20.0	21.21		ug/L		106	77.7 - 134
Dibromomethane	20.0	19.73		ug/L		99	78.4 - 129
Dichlorodifluoromethane	20.0	19.49		ug/L		97	54.5 - 152
Ethylbenzene	20.0	21.75		ug/L		109	78 - 130
Hexachlorobutadiene	20.0	20.17		ug/L		101	61.1 - 147
Isopropylbenzene	20.0	21.73		ug/L		109	77.1 - 135
m,p-Xylene	40.0	42.63		ug/L		107	76 - 137
Methyl tert-butyl ether	20.0	20.34		ug/L		102	62.4 - 149
Methylene Chloride	20.0	22.64		ug/L		113	42.5 - 158
Naphthalene	20.0	20.43		ug/L		102	50.8 - 139
n-Butylbenzene	20.0	19.05		ug/L		95	65.2 - 147
N-Propylbenzene	20.0	22.18		ug/L		111	77.2 - 137
o-Xylene	20.0	21.13		ug/L		106	75.1 - 137
p-Isopropyltoluene	20.0	18.74		ug/L		94	72.9 - 136
sec-Butylbenzene	20.0	20.02		ug/L		100	77.8 - 139
Styrene	20.0	18.97		ug/L		95	59.9 - 144
tert-Butylbenzene	20.0	18.87		ug/L		94	76.3 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 230-1036/1011
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	20.0	20.16		ug/L		101	74.1 - 127
Toluene	20.0	20.96		ug/L		105	75.6 - 124
trans-1,2-Dichloroethene	20.0	20.16		ug/L		101	62.8 - 137
trans-1,3-Dichloropropene	20.0	20.86		ug/L		104	76.8 - 137
Trichloroethene	20.0	18.87		ug/L		94	78.3 - 126
Trichlorofluoromethane	20.0	20.04		ug/L		100	67.7 - 144
Vinyl chloride	20.0	18.32		ug/L		92	45 - 162
Xylenes, Total	60.0	63.76		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*57.8 - 139*
Dibromofluoromethane (Surr)	*98*		*35.8 - 145*
Toluene-d8 (Surr)	*101*		*38.6 - 147*

Lab Sample ID: LCSD 230-1036/12
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	21.66		ug/L		108	78.6 - 126	5	20
1,1,1-Trichloroethane	20.0	20.72		ug/L		104	71.8 - 136	5	20
1,1,2,2-Tetrachloroethane	20.0	22.57		ug/L		113	71.1 - 136	1	20
1,1,2-Trichloroethane	20.0	21.24		ug/L		106	74.8 - 132	1	20
1,1-Dichloroethane	20.0	20.91		ug/L		105	67.3 - 140	6	20
1,1-Dichloroethene	20.0	21.15		ug/L		106	63.5 - 140	5	20
1,1-Dichloropropene	20.0	21.64		ug/L		108	63.9 - 138	7	20
1,2,3-Trichlorobenzene	20.0	18.98		ug/L		95	34.2 - 138	8	20
1,2,3-Trichloropropane	20.0	21.87		ug/L		109	73.4 - 134	1	20
1,2,4-Trichlorobenzene	20.0	18.06		ug/L		90	30.3 - 151	8	20
1,2,4-Trimethylbenzene	20.0	20.53		ug/L		103	71.1 - 141	4	20
1,2-Dibromo-3-Chloropropane	20.0	19.06		ug/L		95	55.7 - 147	6	20
1,2-Dibromoethane (EDB)	20.0	21.66		ug/L		108	76.7 - 128	5	20
1,2-Dichlorobenzene	20.0	23.09		ug/L		115	76.6 - 139	5	20
1,2-Dichloroethane	20.0	20.02		ug/L		100	76.4 - 129	7	20
1,2-Dichloropropane	20.0	21.49		ug/L		107	72.2 - 130	4	20
1,3,5-Trimethylbenzene	20.0	22.67		ug/L		113	74.6 - 143	3	20
1,3-Dichlorobenzene	20.0	21.12		ug/L		106	73.3 - 140	4	20
1,3-Dichloropropane	20.0	20.39		ug/L		102	76.6 - 127	3	20
1,4-Dichlorobenzene	20.0	20.84		ug/L		104	73.6 - 140	4	20
2,2-Dichloropropane	20.0	22.95		ug/L		115	61.7 - 157	2	20
2-Butanone (MEK)	20.0	18.55		ug/L		93	57.2 - 147	9	20
2-Chlorotoluene	20.0	20.46		ug/L		102	65.3 - 138	1	20
2-Hexanone	20.0	18.13		ug/L		91	34.7 - 149	1	20
4-Chlorotoluene	20.0	18.88		ug/L		94	74.4 - 137	3	20
4-Methyl-2-pentanone (MIBK)	20.0	21.10		ug/L		105	59.6 - 137	8	20
Acetone	20.0	14.90		ug/L		74	46 - 166	11	20
Benzene	20.0	21.42		ug/L		107	73.8 - 128	5	20
Bromobenzene	20.0	22.01		ug/L		110	77.9 - 133	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 230-1036/12
Matrix: Water
Analysis Batch: 1036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	20.0	22.61		ug/L		113	70 - 137	6	20
Bromodichloromethane	20.0	20.51		ug/L		103	80.2 - 129	5	20
Bromoform	20.0	18.13		ug/L		91	75.6 - 135	4	20
Bromomethane	20.0	9.946	*	ug/L		50	50.1 - 156	40	20
Carbon disulfide	20.0	21.34		ug/L		107	38.2 - 148	6	20
Carbon tetrachloride	20.0	20.56		ug/L		103	76.6 - 136	7	20
Chlorobenzene	20.0	21.51		ug/L		108	78.7 - 123	3	20
Chlorodibromomethane	20.0	20.26		ug/L		101	78.3 - 131	5	20
Chloroethane	20.0	18.93		ug/L		95	43.4 - 159	1	20
Chloroform	20.0	20.79		ug/L		104	68.8 - 137	8	20
Chloromethane	20.0	18.36		ug/L		92	38.7 - 159	8	20
cis-1,2-Dichloroethene	20.0	22.47		ug/L		112	68.8 - 139	7	20
cis-1,3-Dichloropropene	20.0	21.83		ug/L		109	77.7 - 134	3	20
Dibromomethane	20.0	20.71		ug/L		104	78.4 - 129	5	20
Dichlorodifluoromethane	20.0	20.32		ug/L		102	54.5 - 152	4	20
Ethylbenzene	20.0	22.52		ug/L		113	78 - 130	3	20
Hexachlorobutadiene	20.0	20.25		ug/L		101	61.1 - 147	0	20
Isopropylbenzene	20.0	22.71		ug/L		114	77.1 - 135	4	20
m,p-Xylene	40.0	44.31		ug/L		111	76 - 137	4	20
Methyl tert-butyl ether	20.0	21.86		ug/L		109	62.4 - 149	7	20
Methylene Chloride	20.0	22.88		ug/L		114	42.5 - 158	1	20
Naphthalene	20.0	22.52		ug/L		113	50.8 - 139	10	20
n-Butylbenzene	20.0	20.39		ug/L		102	65.2 - 147	7	20
N-Propylbenzene	20.0	22.86		ug/L		114	77.2 - 137	3	20
o-Xylene	20.0	21.59		ug/L		108	75.1 - 137	2	20
p-Isopropyltoluene	20.0	20.05		ug/L		100	72.9 - 136	7	20
sec-Butylbenzene	20.0	21.03		ug/L		105	77.8 - 139	5	20
Styrene	20.0	19.35		ug/L		97	59.9 - 144	2	20
tert-Butylbenzene	20.0	19.77		ug/L		99	76.3 - 135	5	20
Tetrachloroethene	20.0	21.06		ug/L		105	74.1 - 127	4	20
Toluene	20.0	21.54		ug/L		108	75.6 - 124	3	20
trans-1,2-Dichloroethene	20.0	21.40		ug/L		107	62.8 - 137	6	20
trans-1,3-Dichloropropene	20.0	21.86		ug/L		109	76.8 - 137	5	20
Trichloroethene	20.0	20.15		ug/L		101	78.3 - 126	7	20
Trichlorofluoromethane	20.0	20.87		ug/L		104	67.7 - 144	4	20
Vinyl chloride	20.0	20.31		ug/L		102	45 - 162	10	20
Xylenes, Total	60.0	65.90		ug/L		110	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*
Toluene-d8 (Surr)	*98*		*38.6 - 147*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 230-262-7 DU
Matrix: Water
Analysis Batch: 1036

Client Sample ID: DFSPA-MW15R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,1-Trichloroethane	ND			ND		ug/L				NC	20
1,1,2,2-Tetrachloroethane	ND			ND		ug/L				NC	20
1,1,2-Trichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethane	ND			ND		ug/L				NC	20
1,1-Dichloroethene	ND			ND		ug/L				NC	20
1,1-Dichloropropene	ND			ND		ug/L				NC	20
1,2,3-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,3-Trichloropropane	ND			ND		ug/L				NC	20
1,2,4-Trichlorobenzene	ND			ND		ug/L				NC	20
1,2,4-Trimethylbenzene	149			162.0		ug/L				8	20
1,2-Dibromo-3-Chloropropane	ND			ND		ug/L				NC	20
1,2-Dibromoethane (EDB)	ND			ND		ug/L				NC	20
1,2-Dichlorobenzene	ND			ND		ug/L				NC	20
1,2-Dichloroethane	ND			ND		ug/L				NC	20
1,2-Dichloropropane	ND			ND		ug/L				NC	20
1,3,5-Trimethylbenzene	56.1			62.72		ug/L				11	20
1,3-Dichlorobenzene	ND			ND		ug/L				NC	20
1,3-Dichloropropane	ND			ND		ug/L				NC	20
1,4-Dichlorobenzene	ND			ND		ug/L				NC	20
2,2-Dichloropropane	ND			ND		ug/L				NC	20
2-Butanone (MEK)	ND			ND		ug/L				NC	20
2-Chlorotoluene	ND			ND		ug/L				NC	20
2-Hexanone	ND			ND		ug/L				NC	20
4-Chlorotoluene	ND			ND		ug/L				NC	20
4-Methyl-2-pentanone (MIBK)	ND			ND		ug/L				NC	20
Acetone	157			173.0		ug/L				9	20
Benzene	353			387.7		ug/L				9	20
Bromobenzene	ND			ND		ug/L				NC	20
Bromochloromethane	ND			ND		ug/L				NC	20
Bromodichloromethane	ND			ND		ug/L				NC	20
Bromoform	ND			ND		ug/L				NC	20
Bromomethane	ND	*		ND	*	ug/L				NC	20
Carbon disulfide	ND			ND		ug/L				NC	20
Carbon tetrachloride	ND			ND		ug/L				NC	20
Chlorobenzene	ND			ND		ug/L				NC	20
Chlorodibromomethane	ND			ND		ug/L				NC	20
Chloroethane	ND			ND		ug/L				NC	20
Chloroform	ND			ND		ug/L				NC	20
Chloromethane	ND			ND		ug/L				NC	20
cis-1,2-Dichloroethene	ND			ND		ug/L				NC	20
cis-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Dibromomethane	ND			ND		ug/L				NC	20
Dichlorodifluoromethane	ND			ND		ug/L				NC	20
Ethylbenzene	312			331.9		ug/L				6	20
Hexachlorobutadiene	ND			ND		ug/L				NC	20
Isopropylbenzene	27.4			30.16		ug/L				10	20
m,p-Xylene	395			421.1		ug/L				6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 230-262-7 DU
Matrix: Water
Analysis Batch: 1036

Client Sample ID: DFSPA-MW15R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Methyl tert-butyl ether	ND			ND		ug/L				NC	20
Methylene Chloride	ND			ND		ug/L				NC	20
Naphthalene	140			160.4		ug/L				13	20
n-Butylbenzene	ND			ND		ug/L				NC	20
N-Propylbenzene	26.3			28.54		ug/L				8	20
o-Xylene	ND			ND		ug/L				NC	20
p-Isopropyltoluene	ND			10.18		ug/L				NC	20
sec-Butylbenzene	ND			ND		ug/L				NC	20
Styrene	ND			ND		ug/L				NC	20
tert-Butylbenzene	ND			ND		ug/L				NC	20
Tetrachloroethene	ND			ND		ug/L				NC	20
Toluene	8.78			9.545		ug/L				8	20
trans-1,2-Dichloroethene	ND			ND		ug/L				NC	20
trans-1,3-Dichloropropene	ND			ND		ug/L				NC	20
Trichloroethene	ND			ND		ug/L				NC	20
Trichlorofluoromethane	ND			ND		ug/L				NC	20
Vinyl chloride	ND			ND		ug/L				NC	20
Xylenes, Total	395			421.1		ug/L				6	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*57.8 - 139*
Dibromofluoromethane (Surr)	*99*		*35.8 - 145*
Toluene-d8 (Surr)	*98*		*38.6 - 147*

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS)

Lab Sample ID: MB 230-1003/14
Matrix: Water
Analysis Batch: 1003

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		50.0		ug/L			08/22/14 23:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/22/14 23:58*	*1*
Dibromofluoromethane (Surr)	*99*		*72.7 - 135*		*08/22/14 23:58*	*1*
Toluene-d8 (Surr)	*100*		*72.4 - 121*		*08/22/14 23:58*	*1*

Lab Sample ID: LCS 230-1003/1012
Matrix: Water
Analysis Batch: 1003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C6-C10			500	500.4		ug/L		100	60 - 120		

Method: AK101 - Alaska - Gasoline Range Organics (GC/MS) (Continued)

Lab Sample ID: LCS 230-1003/1012
Matrix: Water
Analysis Batch: 1003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72.7 - 135*
Toluene-d8 (Surr)	*100*		*72.4 - 121*

Lab Sample ID: LCSD 230-1003/13
Matrix: Water
Analysis Batch: 1003

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10			500	523.1		ug/L		105	60 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*72.7 - 135*
Toluene-d8 (Surr)	*99*		*72.4 - 121*

Lab Sample ID: 230-262-1 DU
Matrix: Water
Analysis Batch: 1003

Client Sample ID: DFSPA-MW2R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	ND			ND		ug/L				35	

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72.7 - 135*
Toluene-d8 (Surr)	*99*		*72.4 - 121*

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

Lab Sample ID: 14H0153-BLK1
Matrix: Water
Analysis Batch: 14H0153

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14H0153_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
2-Methylnaphthalene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
1-Methylnaphthalene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Acenaphthylene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Acenaphthene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Fluorene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Phenanthrene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Anthracene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Fluoranthene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Pyrene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Benzo (a) anthracene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00

Method: EPA 8270D - Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (Continued)

Lab Sample ID: 14H0153-BLK1
Matrix: Water
Analysis Batch: 14H0153

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 14H0153_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Benzo (b) fluoranthene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Benzo (k) fluoranthene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Benzo (a) pyrene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Indeno (1,2,3-cd) pyrene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Dibenzo (a,h) anthracene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00
Benzo (ghi) perylene	ND		0.100		ug/L		08/27/14 09:20	08/28/14 01:40	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*73.4*		*32.7 - 135*	*08/27/14 09:20*	*08/28/14 01:40*	*1.00*
2-FBP	*74.6*		*44.3 - 120*	*08/27/14 09:20*	*08/28/14 01:40*	*1.00*
p-Terphenyl-d14	*90.4*		*59.5 - 154*	*08/27/14 09:20*	*08/28/14 01:40*	*1.00*

Lab Sample ID: 14H0153-BS1
Matrix: Water
Analysis Batch: 14H0153

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 14H0153_P

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			4.00	2.09		ug/L		52.2	27.8 - 143		
Fluorene			4.00	3.45		ug/L		86.2	59.2 - 120		
Chrysene			4.00	3.46		ug/L		86.5	69.1 - 122		
Indeno (1,2,3-cd) pyrene			4.00	3.92		ug/L		98.0	56.1 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*86.7*		*32.7 - 135*
2-FBP	*85.5*		*44.3 - 120*
p-Terphenyl-d14	*89.5*		*59.5 - 154*

Lab Sample ID: 14H0153-BSD1
Matrix: Water
Analysis Batch: 14H0153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 14H0153_P

Analyte			Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			4.00	2.18		ug/L		54.5	27.8 - 143	4.22	30
Fluorene			4.00	2.83		ug/L		70.8	59.2 - 120	19.7	30
Chrysene			4.00	3.06		ug/L		76.5	69.1 - 122	12.3	30
Indeno (1,2,3-cd) pyrene			4.00	3.42		ug/L		85.5	56.1 - 135	13.6	30

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
Nitrobenzene-d5	*76.4*		*32.7 - 135*
2-FBP	*73.3*		*44.3 - 120*
p-Terphenyl-d14	*86.1*		*59.5 - 154*

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC)

Lab Sample ID: MB 230-1019/1-A
Matrix: Water
Analysis Batch: 1028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1019

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.500		mg/L		08/26/14 08:46	08/26/14 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*91*		*50 - 150*	*08/26/14 08:46*	*08/26/14 17:35*	*1*

Lab Sample ID: LCS 230-1019/2-A
Matrix: Water
Analysis Batch: 1028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1019

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (DRO) (C10-C25)			10.0	7.225	*	mg/L		72	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*98*		*50 - 150*

Lab Sample ID: LCSD 230-1019/3-A
Matrix: Water
Analysis Batch: 1028

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1019

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)			10.0	6.958	*	mg/L		70	75 - 125	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*99*		*50 - 150*

Lab Sample ID: 230-262-2 DU
Matrix: Water
Analysis Batch: 1028

Client Sample ID: DFSPA-MW22
Prep Type: Total/NA
Prep Batch: 1019

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)	0.393			0.5167		mg/L				27	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1-Chlorooctadecane	*94*		*50 - 150*

Lab Sample ID: MB 230-1045/1-A
Matrix: Water
Analysis Batch: 1046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1045

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.500		mg/L		08/28/14 10:55	08/29/14 11:52	1

Method: AK102 & 103 - Alaska - Diesel Range Organics & Residual Range Organics (GC) (Continued)

Lab Sample ID: MB 230-1045/1-A
Matrix: Water
Analysis Batch: 1046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1045

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150	08/28/14 10:55	08/29/14 11:52	1

Lab Sample ID: LCS 230-1045/2-A
Matrix: Water
Analysis Batch: 1046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1045

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (DRO) (C10-C25)			10.0	8.803		mg/L		88	75 - 125		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	112		50 - 150

Lab Sample ID: LCSD 230-1045/3-A
Matrix: Water
Analysis Batch: 1046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 1045

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)			10.0	7.671		mg/L		77	75 - 125	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctadecane	102		50 - 150

GC/MS VOA

Analysis Batch: 1003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-1	DFSPA-MW2R	Total/NA	Water	AK101	
230-262-1 DU	DFSPA-MW2R	Total/NA	Water	AK101	
230-262-2	DFSPA-MW22	Total/NA	Water	AK101	
230-262-3	DFSPA-MW25C	Total/NA	Water	AK101	
230-262-4	DFSPA-MW25B	Total/NA	Water	AK101	
230-262-5	DFSPA-MW25A	Total/NA	Water	AK101	
230-262-6	DFSPA-MW25BD	Total/NA	Water	AK101	
230-262-7	DFSPA-MW15R	Total/NA	Water	AK101	
230-262-8	DFSPA-MW23	Total/NA	Water	AK101	
230-262-9	DFSPA-MW4R	Total/NA	Water	AK101	
230-262-12	Trip Blank	Total/NA	Water	AK101	
LCS 230-1003/1012	Lab Control Sample	Total/NA	Water	AK101	
LCSD 230-1003/13	Lab Control Sample Dup	Total/NA	Water	AK101	
MB 230-1003/14	Method Blank	Total/NA	Water	AK101	

Analysis Batch: 1004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-1	DFSPA-MW2R	Total/NA	Water	8260B	
230-262-1 DU	DFSPA-MW2R	Total/NA	Water	8260B	
230-262-2	DFSPA-MW22	Total/NA	Water	8260B	
230-262-3	DFSPA-MW25C	Total/NA	Water	8260B	
230-262-4	DFSPA-MW25B	Total/NA	Water	8260B	
230-262-5	DFSPA-MW25A	Total/NA	Water	8260B	
230-262-6	DFSPA-MW25BD	Total/NA	Water	8260B	
230-262-7	DFSPA-MW15R	Total/NA	Water	8260B	
230-262-8	DFSPA-MW23	Total/NA	Water	8260B	
230-262-9	DFSPA-MW4R	Total/NA	Water	8260B	
230-262-10	DFSPA-SS14	Total/NA	Water	8260B	
230-262-11	DFSPA-SS12	Total/NA	Water	8260B	
230-262-12	Trip Blank	Total/NA	Water	8260B	
LCS 230-1004/1010	Lab Control Sample	Total/NA	Water	8260B	
LCSD 230-1004/11	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 230-1004/14	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 1018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-3	DFSPA-MW25C	Total/NA	Water	8260B	
230-262-4	DFSPA-MW25B	Total/NA	Water	8260B	
230-262-5	DFSPA-MW25A	Total/NA	Water	8260B	
230-262-6	DFSPA-MW25BD	Total/NA	Water	8260B	
230-262-7	DFSPA-MW15R	Total/NA	Water	8260B	
230-262-8	DFSPA-MW23	Total/NA	Water	8260B	
LCS 230-1018/1010	Lab Control Sample	Total/NA	Water	8260B	
LCSD 230-1018/11	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 230-1018/24	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 1036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-7	DFSPA-MW15R	Total/NA	Water	8260B	
230-262-7 DU	DFSPA-MW15R	Total/NA	Water	8260B	
LCS 230-1036/1011	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 1036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 230-1036/12	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 230-1036/29	Method Blank	Total/NA	Water	8260B	

Semivolatiles

Analysis Batch: 14H0153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
14H0153-BLK1	Method Blank	Total	Water	EPA 8270D	14H0153_P
14H0153-BS1	Lab Control Sample	Total	Water	EPA 8270D	14H0153_P
14H0153-BSD1	Lab Control Sample Dup	Total	Water	EPA 8270D	14H0153_P
230-262-10	DFSPA-SS14	Total	Water	EPA 8270D	14H0153_P
230-262-11	DFSPA-SS12	Total	Water	EPA 8270D	14H0153_P

Prep Batch: 14H0153_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
14H0153-BLK1	Method Blank	Total	Water	EPA 3510/600 Series	
14H0153-BS1	Lab Control Sample	Total	Water	EPA 3510/600 Series	
14H0153-BSD1	Lab Control Sample Dup	Total	Water	EPA 3510/600 Series	
230-262-10	DFSPA-SS14	Total	Water	EPA 3510/600 Series	
230-262-11	DFSPA-SS12	Total	Water	EPA 3510/600 Series	

GC Semi VOA

Prep Batch: 1019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-1	DFSPA-MW2R	Total/NA	Water	3510C	
230-262-2	DFSPA-MW22	Total/NA	Water	3510C	
230-262-2 DU	DFSPA-MW22	Total/NA	Water	3510C	
LCS 230-1019/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 230-1019/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 230-1019/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 1028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-1	DFSPA-MW2R	Total/NA	Water	AK102 & 103	1019
230-262-2	DFSPA-MW22	Total/NA	Water	AK102 & 103	1019
230-262-2 DU	DFSPA-MW22	Total/NA	Water	AK102 & 103	1019
LCS 230-1019/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	1019
LCSD 230-1019/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	1019
MB 230-1019/1-A	Method Blank	Total/NA	Water	AK102 & 103	1019

Prep Batch: 1045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-3	DFSPA-MW25C	Total/NA	Water	3510C	
230-262-4	DFSPA-MW25B	Total/NA	Water	3510C	
230-262-5	DFSPA-MW25A	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 1045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-6	DFSPA-MW25BD	Total/NA	Water	3510C	
230-262-7	DFSPA-MW15R	Total/NA	Water	3510C	
230-262-8	DFSPA-MW23	Total/NA	Water	3510C	
230-262-9	DFSPA-MW4R	Total/NA	Water	3510C	
LCS 230-1045/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 230-1045/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 230-1045/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 1046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
230-262-3	DFSPA-MW25C	Total/NA	Water	AK102 & 103	1045
230-262-4	DFSPA-MW25B	Total/NA	Water	AK102 & 103	1045
230-262-5	DFSPA-MW25A	Total/NA	Water	AK102 & 103	1045
230-262-6	DFSPA-MW25BD	Total/NA	Water	AK102 & 103	1045
230-262-7	DFSPA-MW15R	Total/NA	Water	AK102 & 103	1045
230-262-8	DFSPA-MW23	Total/NA	Water	AK102 & 103	1045
230-262-9	DFSPA-MW4R	Total/NA	Water	AK102 & 103	1045
LCS 230-1045/2-A	Lab Control Sample	Total/NA	Water	AK102 & 103	1045
LCSD 230-1045/3-A	Lab Control Sample Dup	Total/NA	Water	AK102 & 103	1045
MB 230-1045/1-A	Method Blank	Total/NA	Water	AK102 & 103	1045

Lab Chronicle

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW2R

Lab Sample ID: 230-262-1

Date Collected: 08/21/14 11:29

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 05:18	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 05:18	ASD	TAL ANC
Total/NA	Prep	3510C			1019	08/26/14 08:46	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1028	08/26/14 19:43	ASD	TAL ANC

Client Sample ID: DFSPA-MW22

Lab Sample ID: 230-262-2

Date Collected: 08/21/14 13:15

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 06:22	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 06:22	ASD	TAL ANC
Total/NA	Prep	3510C			1019	08/26/14 08:46	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1028	08/26/14 20:15	ASD	TAL ANC

Client Sample ID: DFSPA-MW25C

Lab Sample ID: 230-262-3

Date Collected: 08/21/14 14:40

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 06:54	ASD	TAL ANC
Total/NA	Analysis	8260B		10	1018	08/26/14 21:14	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 06:54	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 13:28	ASD	TAL ANC

Client Sample ID: DFSPA-MW25B

Lab Sample ID: 230-262-4

Date Collected: 08/21/14 15:55

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 07:26	ASD	TAL ANC
Total/NA	Analysis	8260B		10	1018	08/26/14 21:46	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 07:26	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 14:00	ASD	TAL ANC

Client Sample ID: DFSPA-MW25A

Lab Sample ID: 230-262-5

Date Collected: 08/21/14 17:00

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 07:58	ASD	TAL ANC
Total/NA	Analysis	8260B		10	1018	08/26/14 22:18	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 07:58	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 14:32	ASD	TAL ANC

Client Sample ID: DFSPA-MW25BD

Lab Sample ID: 230-262-6

Date Collected: 08/21/14 16:00

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 10:07	ASD	TAL ANC
Total/NA	Analysis	8260B		10	1018	08/26/14 22:50	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 10:07	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 15:04	ASD	TAL ANC

Client Sample ID: DFSPA-MW15R

Lab Sample ID: 230-262-7

Date Collected: 08/21/14 17:50

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 10:39	ASD	TAL ANC
Total/NA	Analysis	8260B		10	1018	08/26/14 23:22	ASD	TAL ANC
Total/NA	Analysis	8260B		5	1036	08/27/14 18:56	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 10:39	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 15:36	ASD	TAL ANC

Client Sample ID: DFSPA-MW23

Lab Sample ID: 230-262-8

Date Collected: 08/21/14 18:45

Matrix: Water

Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 11:11	ASD	TAL ANC
Total/NA	Analysis	8260B		1	1018	08/26/14 19:04	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 11:11	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 16:07	ASD	TAL ANC

Lab Chronicle

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Client Sample ID: DFSPA-MW4R

Lab Sample ID: 230-262-9

Date Collected: 08/21/14 19:03
Matrix: Water
Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 11:43	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 11:43	ASD	TAL ANC
Total/NA	Prep	3510C			1045	08/28/14 10:55	ASD	TAL ANC
Total/NA	Analysis	AK102 & 103		1	1046	08/29/14 17:12	ASD	TAL ANC

Client Sample ID: DFSPA-SS14

Lab Sample ID: 230-262-10

Date Collected: 08/22/14 09:35
Matrix: Water
Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 12:15	ASD	TAL ANC
Total	Prep	EPA 3510/600 Series		0.980	14H0153_P	08/27/14 09:20	IAB	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0153	08/28/14 03:32	NMI	TAL SPK

Client Sample ID: DFSPA-SS12

Lab Sample ID: 230-262-11

Date Collected: 08/22/14 09:55
Matrix: Water
Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 12:47	ASD	TAL ANC
Total	Prep	EPA 3510/600 Series		0.996	14H0153_P	08/27/14 09:20	IAB	TAL SPK
Total	Analysis	EPA 8270D		1.00	14H0153	08/28/14 13:07	NMI	TAL SPK

Client Sample ID: Trip Blank

Lab Sample ID: 230-262-12

Date Collected: 08/21/14 00:00
Matrix: Water
Date Received: 08/22/14 11:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1004	08/23/14 13:19	ASD	TAL ANC
Total/NA	Analysis	AK101		1	1003	08/23/14 13:19	ASD	TAL ANC

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road, Suite A10, Anchorage, AK 99502-1119, TEL (907)563-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: R&M Consultants
TestAmerica Job ID: 230-262-1
Project/Site: Port of Anchorage Water Sampling DFSPA

Laboratory: TestAmerica Anchorage

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	AK00975	06-30-15

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-15

Method Summary

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL ANC
AK101	Alaska - Gasoline Range Organics (GC/MS)	ADEC	TAL ANC
EPA 8270D	Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring		TAL SPK
AK102 & 103	Alaska - Diesel Range Organics & Residual Range Organics (GC)	ADEC	TAL ANC

Protocol References:

ADEC = Alaska Department of Environmental Conservation

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL ANC = TestAmerica Anchorage, 2000 West International Airport Road, Suite A10, Anchorage, AK 99502-1119, TEL (907)563-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Sample Summary

Client: R&M Consultants
Project/Site: Port of Anchorage Water Sampling DFSPA

TestAmerica Job ID: 230-262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
230-262-1	DFSPA-MW2R	Water	08/21/14 11:29	08/22/14 11:57
230-262-2	DFSPA-MW22	Water	08/21/14 13:15	08/22/14 11:57
230-262-3	DFSPA-MW25C	Water	08/21/14 14:40	08/22/14 11:57
230-262-4	DFSPA-MW25B	Water	08/21/14 15:55	08/22/14 11:57
230-262-5	DFSPA-MW25A	Water	08/21/14 17:00	08/22/14 11:57
230-262-6	DFSPA-MW25BD	Water	08/21/14 16:00	08/22/14 11:57
230-262-7	DFSPA-MW15R	Water	08/21/14 17:50	08/22/14 11:57
230-262-8	DFSPA-MW23	Water	08/21/14 18:45	08/22/14 11:57
230-262-9	DFSPA-MW4R	Water	08/21/14 19:03	08/22/14 11:57
230-262-10	DFSPA-SS14	Water	08/22/14 09:35	08/22/14 11:57
230-262-11	DFSPA-SS12	Water	08/22/14 09:55	08/22/14 11:57
230-262-12	Trip Blank	Water	08/21/14 00:00	08/22/14 11:57

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2000 230-262 Chain of Custody

8424-1317 253-922-2310 FAX 922-5047
)206-5302 509-924-9200 FAX 924-9290
7008-7145 503-906-9200 FAX 906-9210
)502-1119 907-563-9200 FAX 563-9210 X

CHAIN OF CUSTODY REPORT

Work Order #: 230-262

CLIENT: RM Consultants

REPORT TO: K McLean

ADDRESS: 9101 Vanguard / Anchorage 99507

PHONE: 646.9689 FAX:

INVOICE TO: K. McLean

P.O. NUMBER: 1771.03

PROJECT NAME: POA DFSPA

PROJECT NUMBER: 1771.03

SAMPLED BY: Kristi McLean

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: (10 STD) 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 STD. 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE: HCl	HCl	HCl	—	REQUESTED ANALYSES: GRO/BTEX	VOC	DRO	PAH	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	DFSPA-MW2R	8/21/14 / 11:29					X	X	X		W	8		01
2	DFSPA-MW22	8/21/14 / 13:15					X	X	X			8		02
3	DFSPA-MW25C	8/21/14 / 14:40					X	X	X			8		03
4	DFSPA-MW25B	8/21/14 / 15:55					X	X	X			8		04
5	DFSPA-MW25A	8/21/14 / 1700					X	X	X			8		05
6	DFSPA-MW25BD	8/21/14 / 16:00					X	X	X			8		06
7	DFSPA-MW15R	8/21/14 / 17:50					X	X	X			8		07
8	DFSPA-MW23	8/21/14 / 18:45					X	X	X			8		08
9	DFSPA-MW4R	8/21/14 / 19:03					X	X	X			8		09
10	DFSPA-MS514	8/22/14 / 9:35					X			X		5		10

RELEASED BY: PRINT NAME: FIRM: RM Consult DATE: 8/22/14 TIME: 11:43

RECEIVED BY: PRINT NAME: Andrew P-Kk FIRM: TA-AK DATE: 8/22/14 TIME: 11:43

RELEASED BY: PRINT NAME: FIRM: DATE: TIME:

RECEIVED BY: PRINT NAME: FIRM: DATE: TIME:

ADDITIONAL REMARKS:

TEMP: 5.1 5.3

PAGE 1 OF 2

TAL-1000 (0612)

Page 67 of 69

12/17/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 230-262

CLIENT: RM Consultants
REPORT TO: K McLean
ADDRESS:
PHONE: 646.9689 FAX:

INVOICE TO: McLean
P.O. NUMBER: 1771.03

PROJECT NAME: PDA DFSPA
PROJECT NUMBER: 177103
SAMPLED BY: Kristi McLean

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: [10] STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: [5] STD. | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE: PAH	PRESERVATIVE: BTEX	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	DFSPA-SS12	8/22/14 9:55	X	X	W	5		11
2								
3								
4								
5								
6								
7								
8								
9								
10								

REQUESTED ANALYSES

RELEASED BY: [signature] FIRM: RPM DATE: 11-'43 TIME: 8/22/14
PRINT NAME:

RECEIVED BY: [signature] FIRM: TA-AK DATE: 8/22/14 TIME: 11:43
PRINT NAME: Andrew Pilch

RELEASED BY: DATE: TIME:
PRINT NAME: FIRM:

RECEIVED BY: DATE: TIME:
PRINT NAME: FIRM:

ADDITIONAL REMARKS:

TEMP: 5.1 5.3

PAGE 2 OF 2

TAL-1000 (0612)

Login Sample Receipt Checklist

Client: R&M Consultants

Job Number: 230-262-1

Login Number: 262

List Number: 1

Creator: Hirji, Ally

List Source: TestAmerica Anchorage

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1 C, 5.3 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: R&M Consultants

Job Number: 230-262-1

Login Number: 262

List Source: TestAmerica Anchorage

List Number: 1

Creator: Hirji, Ally

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1 C, 5.3 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Laboratory Data Review Checklist

Completed by:	Christopher Fell (R&M Consultants, Inc.)		
Title:	Senior Geologist	Date:	Dec 17, 2014
CS Report Name:	POA Water Sampling DFSPA	Report Date:	Sep 10, 2014
Consultant Firm:	R&M Consultants, Inc.		
Laboratory Name:	TestAmerica	Laboratory Report Number:	230-262-1
ADEC File Number:	2102.38.021	ADEC RecKey Number:	198821X111901

1. Laboratory

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

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

TestAmerica Anchorage (AK00975)

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:

TestAmerica Spokane (UST-071)

2. Chain of Custody (COC)

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

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

The trip blank was not included on the COC, but was shipped with the samples to the laboratory. The trip blank was logged in with the other samples at laboratory check in.

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° ± 2° C)?

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

Cooler 1 = 5.1 C; Cooler 2 = 5.3 C

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:

All samples were received in good condition with the exception of one broken 40ml VOA for MW25A; five other 40ml VOAs were received intact are were used for analysis.

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

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

There were no discrepancies.

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

Comments:

Data quality or usability was not affected.

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:

There were CCV failures for batches 1017 and 1036, and LCS/LCSD failures for batches 1019 and 1036

c. Were all corrective actions documented?

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

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

Comments:

CCV failures in 1017 results in a high bias for GRO in the method blank and LCS/LCSD QC samples. Project samples were non-detect for GRO so data were not affected. CCV failure for acetone in 1036 results in a low bias for acetone in sample MW15R which detected the analyte 200 times below the cleanup level and thus data are considered usable. LCS/LCSD failures are discussed further down.

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:

Soil analysis was not performed.

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:

RL was used instead of MDL or PQL.

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

Comments:

Data quality or usability were not affected.

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:

Less than the RL

iii. If above PQL, what samples are affected? Comments:

NA

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

○ Yes ○ No ◉ NA (Please explain) Comments:

There are no MB detections and thus no associated data flags.

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

Data quality or usability were not affected.

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:

No metals/inorganics analysis was performed

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:

The LCS for batch 1036 recovered below control limits for bromomethane resulting in a low bias associated with sample MW15R. MW15R was ND for bromomethane, thus data are considered usable.

The LCS/LCSD pair for batch 1019 (samples MW2R and MW22) recovered just below control limits (72%/70%) for DRO resulting in a low bias. MW22 was re-prepped and analyzed. MW2R did not have enough sample left and was reported

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/DMSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

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

The bromomethane RPD for the LCS/LCSD pair from batch 1036 (MW15R) was outside control limits The analyte was not detected in MW15R so data are not affected.

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

Comments:

MW15R

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

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

Bromomethane is flagged in the LCS/LCSD but not for MW15R as the result was ND.

vii. Data quality or usability affected? (Please explain) Comments:

Data are considered usable. DRO in MW2R must be considered to have a slight low bias, but the data is usable as the detection of 0.616 mg/L is 2x below the cleanup level.

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:

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:

No surrogate recovery failures occured.

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

Comments:

Data quality and usability were not affected.

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:

The trip blank was not listed on the COC, but was shipped with samples and logged in at the lab.

iii. All results less than PQL?

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

iv. If above PQL, what samples are affected?

Comments:

NA

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

Comments:

Data quality ad usability were not affected.

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)

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

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

○ Yes ◉ No ○ NA (Please explain) Comments:

RPDs are listed below for detected analytes in the primary (MW25B) and duplicate (MW25BD) samples:

Benzene = 1%
Ethylbenzene = 3%
xylenes (total) = 2%
GRO = 1%
DRO = 50%

All RPDs were within limits (30%) for water analytes except for DRO with a 50% RPD.
DRO was detected at 19 ug/L in the primary and 31.6 ug/L in the duplicate sample which are 1 to 2% of the cleanup level. The DRO cleanup level is 1,500 ug/L. A small difference (12.6 ug/L) at low concentrations, such as those detected, will result in a large RPD. Due to the low level concentrations of DRO and the small actual difference between primary and duplicate detections of DRO, the data are not considered to be affected by the RPD failure for DRO.

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

○ Yes ◉ No ○ NA (Please explain) Comments:

Data quality or usability were not affected.

f. Decontamination or Equipment Blank (if applicable)

○ Yes ○ No ◉ NA (Please explain) Comments:

No decontamination blank was collected. Primarily disposable sampling was utilized.

i. All results less than PQL?

○ Yes ○ No ◉ NA (Please explain) Comments:

ii. If above PQL, what samples are affected?

Comments:

NA

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

Comments:

NA

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

a. Defined and appropriate?

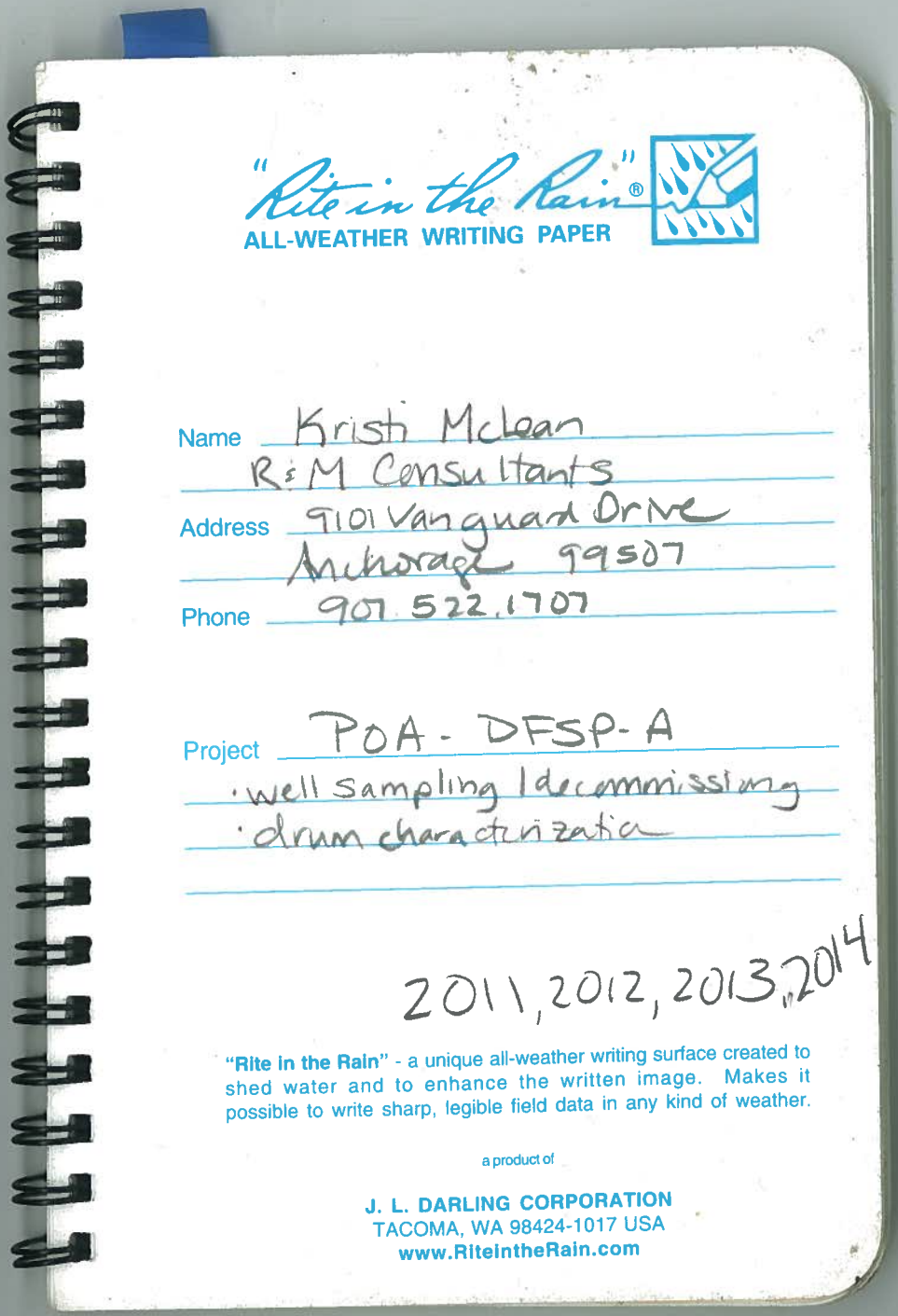
Comments:

(•) Yes ( ) No ( ) NA (Please explain)

Reset Form

ATTACHMENT D

FIELD NOTES AND SAMPLING LOGS


"Rite in the Rain"®
ALL-WEATHER WRITING PAPER
Name Kristi McLean
R&M Consultants
Address 9101 Vanguard Drive
Anchorage 99507
Phone 907.522.1707
Project POA - DFSP-A
· well sampling / decommissioning
· drum characterizatio
2011, 2012, 2013, 2014
"Rite in the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.
a product of
J. L. DARLING CORPORATION
TACOMA, WA 98424-1017 USA
www.RiteintheRain.com

8/21/14 PTSPA POA

GW/Surface Water Sampling

Weather: Partly cloudy, no wind, temp ranged 50°-65° F by afternoon; light wind/clouds by early evening

MW sampling start @ approx 0900

See MW Logs for details

Completed MW sampling & demobed from POA @ 1900

Scale: 1 square = _____

Rite in the Rain

6/22/14 POT DFSPA cont.

Sampled surface water
Locations SS12/SS14

Weather: clear skies, no wind
temp ~ 55°F
Arrived onsite @ 0900
Collected samples (surface only)
Demobbed from site @ ~1030

Refer to Sampling Logs for
details

Scale: 1 square = _____

Rite in the Rain

MONITORING WELL
SAMPLING LOG

MW2R

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 1046

TIME COMPLETED: 1140

Purge Start 11.00
Purge Stop 11.19

SAMPLING DATA

Measuring Point	Flush
Measuring Point Stickup	+1 (MW cover off/well cap intact) but above grade
Measuring Point Elevation	37.87

Depth to Water Below MP	4.12	Water Level Elevation	33.75
Depth of Well Below MP	13.49	Water Column in Well	9.37
Diameter of Casing	4"	Gallons/FT	0.65275
		Gallons in Well	6.1
Gallons Pumped Bailed	18		

FIELD DATA

Evaluation Method: GRO/DRO/VOC/

Sampling Method: Submersible Pump

Sample ID Number: DFSPA-MW2R

sampled @ 11:29

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

MW cover off/broken well cap intact

NO ODOR/NO SHEEN IN PURGEWATER

MONITORING WELL
SAMPLING LOG

MW4-R

DATE: 8/21/14

JOB NUMBER: 1771.03

LOCATION: POA DFSPA

TIME STARTED: 0945

TIME COMPLETED: 1915 (allowed well to recharge)

Purge Start 10:15
Purge Stop 10:30

SAMPLING DATA

Measuring Point	top of casing
Measuring Point Stickup	30"
Measuring Point Elevation	44.07

Depth to Water Below MP	3.95	Water Level Elevation	40.12
Depth of Well Below MP	12.41	Water Column in Well	8.46
Diameter of Casing	4"	Gallons/FT	0.65275
		Gallons in Well	5.5

Gallons Pumped Bailed 10 (purged dry)

FIELD DATA

Evaluation Method: GRO/BTEX/VOC/DRO

Sampling Method: Submersible pump / teflon lined tubing

Sample ID Number: OFSPA-MW4R @ 1903

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

NO SHEEN / NO ODOR IN PURGE WATER

MONITORING WELL
SAMPLING LOG

MW15R

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: PDA DFSPA

TIME STARTED: 1730

TIME COMPLETED: 1800

SAMPLING DATA

Measuring Point: top of casing

Measuring Point Stickup: 2.35''

Measuring Point Elevation: 38.02

Depth to Water Below MP: 3.40

Water Level Elevation: 34.62

Depth of Well Below MP: 11.15

Water Column in Well: 7.75

Diameter of Casing: 4'

Gallons/FT: 0.6527 5

Gallons in Well: 5

Gallons Pumped Bailed: 15

FIELD DATA

Evaluation Method: GRO/VOC/DRO

Sampling Method: Submersible pump

Sample ID Number: DFSPA-MW15R @ 1750

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

11-91 4

strong odor / heavy sheen in purgewater

MONITORING WELL
SAMPLING LOG

MW22

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 12:45

TIME COMPLETED: 13:20

Purge Start 1:06p

Purge Stop 1:11p

SAMPLING DATA

Measuring Point	top of casing
Measuring Point Stickup	40"
Measuring Point Elevation	84.98

Depth to Water Below MP	3.11	Water Level Elevation	81.87
Depth of Well Below MP	12.11	Water Column in Well	9
Diameter of Casing	~~2~~ 2"	Gallons/FT	0.16319
		Gallons in Well	1.5
Gallons Pumped Bailed	5		

FIELD DATA

Evaluation Method: GRO/BTEX/VOC/DRO

Sampling Method: Submersible pump

Sample ID Number: DFSPA-MW22 @ 13:15

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

NO ODOR/NO SHEEN

MONITORING WELL
SAMPLING LOG

MW23

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 12:03

TIME COMPLETED: 18:50 (allowed well to recharge)

SAMPLING DATA

Measuring Point	~~top~~ of casing
Measuring Point Stickup	49"
Measuring Point Elevation	38.75'

Depth to Water Below MP	4.20	Water Level Elevation	34.55
Depth of Well Below MP	9.45	Water Column in Well	5.25
Diameter of Casing	2"	Gallons/FT	0.16314
		Gallons in Well	.8
Gallons Pumped Bailed	3		

FIELD DATA

Evaluation Method: DRO/GRO/BTEX/VOC

Sampling Method: submersible pump

Sample ID Number: DFSPA-MW23 @ 18:45

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

11-91 4

- NO ODOR / NO SHEEN IN PURGE WATER
- standing water in outer casing

MW25A

MONITORING WELL SAMPLING LOG

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 1630

TIME COMPLETED: 1720

SAMPLING DATA

Measuring Point	top of casing
Measuring Point Stickup	2.8'
Measuring Point Elevation	96.78

Depth to Water Below MP	44.59	Water Level Elevation	52.19
Depth of Well Below MP	51.90	Water Column in Well	7.31
Diameter of Casing	2"	Gallons/FT	0.16319
		Gallons in Well	1.2
Gallons Pumped Bailed	3.5		

FIELD DATA

Evaluation Method: GRO/BTEX/VOC/DRO

Sampling Method: Submersible pump

Sample ID Number: DFSPA-MW25A @ 1700

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

strong ODOR/SHEEN heavy

MW 25B

MONITORING WELL SAMPLING LOG

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: ~~1530~~ 1540

TIME COMPLETED: 16:15

Purg Start 1540
Purg Stop 1550

SAMPLING DATA

Measuring Point: top of casing

Measuring Point Stickup: 31"

Measuring Point Elevation: 9369

Depth to Water Below MP: 41.12

Depth of Well Below MP: 47.69

Diameter of Casing: 2"

Water Level Elevation: 52.57

Water Column in Well: 6.57

Gallons/FT: 0.16319

Gallons in Well: 1

Gallons Pumped Bailed: 3

FIELD DATA

Evaluation Method: GRO/BTEX/VOC/DRO

Sampling Method: submersible pump

Sample ID Number: DFSPA-MW25B @ 15:55
DFSPA-MW25BD @ 16:00

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

STRONG ODOR | SHEEN

MONITORING WELL
SAMPLING LOG

MW 25C

DATE: 8/21/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 14:15

TIME COMPLETED: 1450

Purge start: 1429

stop: 1435

SAMPLING DATA

Measuring Point	top of casing
Measuring Point Stickup	27"
Measuring Point Elevation	95.81

Depth to Water Below MP	41.62	Water Level Elevation	54.19
Depth of Well Below MP	43.29	Water Column in Well	1.67
Diameter of Casing	2"	Gallons/FT	0.16319
		Gallons in Well	0.3
Gallons Pumped Bailed	1		

FIELD DATA

Evaluation Method: GRO/BTEX/VOC/DRO

Sampling Method: Submersible pump

Sample ID Number: DFSPA-MW25C @ 14:40

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

11-91 4

heavy sheen / strong odor in purge water

SS12

MONITORING WELL
SAMPLING LOG

DATE: 8/22/14

JOB NUMBER: 1771.03.55

LOCATION: POA DFSPA

TIME STARTED: 950

TIME COMPLETED: 1000

SAMPLING DATA

Measuring Point _____

Measuring Point Stickup _____

Measuring Point Elevation _____

Depth to Water Below MP _____

Depth of Well Below MP _____

Diameter of Casing _____

Gallons Pumped Bailed _____

Water Level Elevation _____

Water Column in Well _____

Gallons/FT _____

Gallons in Well _____

FIELD DATA

Evaluation Method: PAH/VOC

Sampling Method: surface water grab sample

Sample ID Number: DFSPA - SS12 @ 9:55

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

11-91 4

NAPL ODOR/Heavy sheen

SS14

MONITORING WELL SAMPLING LOG

DATE: 8/22/14

JOB NUMBER: 1771.0355

LOCATION: POA DFSPA

TIME STARTED: 915

TIME COMPLETED: 940

SAMPLING DATA

Measuring Point _____

Measuring Point Stickup _____

Measuring Point Elevation _____

Depth to Water Below MP _____

Depth of Well Below MP _____

Diameter of Casing _____

Gallons Pumped Bailed _____

Water Level Elevation _____

Water Column in Well _____

Gallons/FT _____

Gallons in Well _____

FIELD DATA

Evaluation Method: VOC/PAH

Sampling Method: Surface water grab sample

Sample ID Number: DFSPA - SS14 @ 9:35

WELL CASING VOLUMES (GAL/FT)

1-1/4" = 0.06375	2" = 0.16319	3" = 0.36717	4" = 0.65275
1-1/2" = 0.09179	2-1/2" = 0.25498	3-1/2" = 0.49977	6" = 1.46870

NO ODOR / Slight sheen