



April 24, 2018

Mr. Robert Weimer
Alaska Department of Environmental Conservation
555 Cordova St.
Anchorage, AK 99501

Re: 2017 Groundwater Monitoring Report

Dear Mr. Weimer:

Please find the electronic copy of the 2017 Groundwater Monitoring Report for the former Hanna Car Care Center Site.

If you have any questions, please feel free to contact me at (619) 838-1657.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Zack Kirk", with a long horizontal stroke extending to the right.

Zack Kirk
Senior Environmental Scientist
Rescon Alaska, LLC

2017 GROUNDWATER MONITORING REPORT

FORMER HANNA CAR CARE CENTER 180 MULDOON ROAD ANCHORAGE, ALASKA

April 2018

Prepared for:

Mr. Tony Kim

Prepared by:



1120 Huffman Road, Suite 24-431
Anchorage, AK 99515

Prepared by:

A handwritten signature in black ink, appearing to read "Kynan Adams".

Kynan Adams,
Environmental Scientist
Rescon Alaska, LLC

Reviewed by:

A handwritten signature in black ink, appearing to read "Zachary Kirk".

Zachary Kirk
Senior Project Manager
Rescon Alaska, LLC

April 11, 2018

Date

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
%	percent
AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
AK	Alaska
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DRO	diesel-range organics
EPA	Environmental Protection Agency
GCL	groundwater cleanup level
GRO	gasoline range organics
HCl	hydrochloric acid
IC	institutional control
mg/l	milligrams per liter
LOD	limit of detection
LOQ	limit of quantification
PAH	polycyclic aromatic hydrocarbons
QC	quality control
RESCON	Rescon Alaska LLC
RRO	residual range organics
UST	underground storage tanks
YSI	YSI 556 meter

1. INTRODUCTION

Rescon Alaska, LLC (Rescon) has prepared this groundwater monitoring report to detail environmental services performed at the former Hanna Car Care Property located in Anchorage, Alaska on behalf of the property owner, Mr. Tony Kim. The former Hanna Car Care property (herein referred to as the “site” or “subject property”) is located at 180 Muldoon Road in Anchorage, Alaska. A site location map of the property is presented in Figure 1. The Alaska Department of Environmental Conservation (ADEC) maintains a record of the property in the Contaminated Sites database under File Number 2100.26.204.

This report presents the field activities, observations, and results of the groundwater monitoring effort performed at the site on June 12, 2017.

1.1. Site Description and History

The Hanna Car Care site is located at the northwest corner of the intersection of Peck Avenue and Muldoon Road, in the northeastern portion of Anchorage. The site layout and adjacent properties are displayed on Figure 2. The site consists of a single-story building that houses an auto repair shop, a car wash, and a coin-operated laundry facility. A convenience store and gasoline service station was formerly located on the east side of the car wash building.

In May of 1999, the ADEC requested that the responsible party perform a remedial investigation and corrective action to address the release of petroleum fuels from the formerly used underground storage tanks (UST). Four registered USTs and five unregistered USTs were removed, cleaned, and disposed of during the fall/winter of 1999. Approximately 140 cubic yards of impacted soil was also excavated from the property and treated thermally.

Soil and groundwater characterization activities performed by Restoration Science and Engineering (RS&E) in 2003 reported concentrations of gasoline range organics (GRO), diesel range organics (DRO), and benzene, toluene, ethylbenzene, and xylenes (BTEX) in the soil above cleanup levels at several boring locations. In addition, groundwater sample results detected GRO, DRO, and benzene contamination in several of the monitoring wells at the site. A subsequent report presented remedial options for the site, with the recommended approach to construct an air sparge/vapor extraction system.

In 2004, Braunstein Geological and Environmental Services (BGES) was contracted to evaluate site conditions and review previous assessments performed at the site. BGES recommended additional groundwater sampling be performed and proceeded to conduct 14 groundwater monitoring events at the site beginning in 2004. One monitoring well (MW7) consistently exhibited concentrations of GRO, DRO, and BTEX constituents exceeding the ADEC cleanup criteria. However, samples collected during the fall of 2014 and the summer of 2015 indicated contaminant concentrations at MW7 had fallen below the respective ADEC cleanup levels.

1.2. Project Objective

The ADEC requested an additional groundwater monitoring sample be collected from monitoring well MW7 to confirm that contaminant concentrations remain below ADEC cleanup levels. The contaminants of concern for this site consist of the petroleum compounds GRO, BTEX, and polynuclear aromatic hydrocarbons (PAH).

1.3. Regulatory Framework

The regulatory framework for this project were developed under consideration of the following regulations and guidance documents

- 18 Alaska Administrative Code (AAC) 75, Oil and Other Hazardous Substances Pollution Control, January 2016.
- Field Sampling Guidance, ADEC Division of Spill Prevention and Response, Contaminated Sites Program, August 2017.

The analytical results of the groundwater samples collected during this monitoring effort were evaluated using the current version of the ADEC groundwater cleanup levels (GCLs) listed in Table C of 18 AAC 75; Oil and Other Hazardous Substances Pollution Control updated in November 2017.

2. FIELD ACTIVITIES

The groundwater sampling event was conducted on June 12, 2017. The field work was performed by Ryan Burich, a Qualified Environmental Professional as defined in 18 AAC 75.990(100) (ADEC, 2016). Copies of the project field notes and groundwater monitoring forms are included in Appendix A.

2.1. Monitoring Well Condition

During the 2017 monitoring effort, Rescon discovered the flush mount monument covering monitoring well MW7 was slightly damaged. The monument appeared to be bent inward, and upon removing the cover Rescon discovered the inside of the monument was filled with sediment. The sediment was cleared to expose the monitoring well compression cap, which was found to be loose. Following removal of the compression cap, it was observed that the upper portion of the monitoring well contained a minimal amount of residual sediment on the inside of the well.

2.2. Monitoring Groundwater Quality Parameters

The field scientist purged the monitoring wells in accordance with the low-flow sampling techniques outlined in the *ADEC Field Sampling Guidance* (ADEC, 2016). The groundwater was pumped to the surface using a variable speed submersible centrifugal pump and dedicated tubing. The tubing was connected to a flow-through cell for the measurement of water quality parameters using a YSI 556 meter (YSI). Groundwater quality parameters were monitored continuously with the YSI during purging. The pumping speed was set to maintain a minimum water level drawdown of less than one tenth of a meter (< 0.1 meter or < 0.33 feet). In accordance with low-flow sampling requirements, the monitoring wells were purged until three consecutive readings of water quality parameters, collected 3-5 minutes apart, met the following stability criteria:

- ± 0.1 for pH,
- ± 3 percent (%) for conductivity,
- ± 10 millivolts for redox potential, and
- $\pm 10\%$ for dissolved oxygen.

All groundwater quality measurements and field observations were documented on the groundwater monitoring data sheet (Appendix A). A water and Alconox solution, as well as a deionized water rinse, was used to decontaminate the pump after sampling activities were completed.

2.3. Groundwater Sampling

Following stabilization of the groundwater parameters, the field scientist collected one primary and one field duplicate (17-FD-1) groundwater sample from the MW7 sample location well. The groundwater samples were submitted to the laboratory for the following analyses:

- GRO using Alaska (AK) Method 101,
- BTEX using EPA Method 8021,
- PAH using EPA Method 8270D-SIM.

The GRO and BTEX samples were collected into laboratory-provided clean 40 milliliter Volatile Organic Analysis (VOA) vials containing hydrochloric (HCl) acid preservative and secured with septa lids. The sample containers were completely filled to ensure no headspace was present to prevent volatilization. After filling, the containers were immediately capped, turned over and tapped to ensure no air bubbles were present. If air bubbles were observed, the container was opened, filled further, capped and inspected again. This process was repeated until no air bubbles were observed in the container. Care was taken to avoid overfilling the VOAs to ensure HCl acid preservative did not spill out of the containers. Groundwater collected for analysis of PAH concentration was filled into a clean unpreserved one-liter amber jar.

Nitrile gloves were worn by the sampler to prevent cross-contamination. Sample containers were sealed, labeled, given a unique identification number, and preserved in accordance with the analytical method. Once the containers were appropriately filled, the containers were labeled and immediately placed into a cooler with sufficient gel ice to maintain the sample temperatures at 4° Celsius (C) ± 2°C until arrival at the analytical laboratory. The groundwater samples, along with a temperature blank and trip blank, were submitted to SGS North America, Inc., an ADEC approved laboratory, under proper chain of custody procedures.

2.4. Investigative Derived Waste

Purge and decontamination water was containerized into a 5-gallon bucket and stored inside the service garage on the property. Rescon transported the full container to NRC Alaska for appropriate treatment and disposal. The waste manifest is included in Appendix D. All remaining sampling derived waste, including disposable sample gloves, tubing, and paper waste was disposed of in a waste receptacle for the Anchorage Municipal Landfill.

3. RESULTS AND DISCUSSION

The analytical results for the groundwater samples are summarized in Table 1. The final laboratory analytical report from SGS North America is provided in Appendix B. The ADEC Laboratory Data Review Checklist for the analytical data package is provided in Appendix C.

3.1. Groundwater Quality Parameters

Prior to collecting the analytical groundwater sample from monitoring well MW7, Rescon measured the standard water quality parameters (pH, specific conductance, redox potential, and dissolved oxygen) using a YSI 556 water quality meter equipped with a flow-through cell, and recorded the data on the groundwater monitoring form (Appendix A). Purging was considered complete when water quality parameters had stabilized. Final stabilization parameters are summarized in the table below:

Stabilized Water Quality Parameters

Well Point ID	Volume Purged (gallons)	pH	Specific Conductance (mS/cm)	Temperature (°C)	ORP
MW7	0.7	6.52	0.238	7.07	-65.0

3.2. Groundwater Sample Results

The groundwater sample results are compared against the ADEC GCLs listed in Table C of ADEC Regulation 18 AAC 75, Oil and Other Hazardous Substances Pollution Control, updated in November 2017. Laboratory analysis of the groundwater samples detected contaminant concentrations below the ADEC GCLs at monitoring well location MW7, as shown in Table 1.

- GRO was detected at MW7 with a concentration of 0.494 mg/L, which is less than the ADEC GCL of 2.2 mg/L.
- Benzene was detected at MW7 with a concentration of 0.00419 mg/l, which is below the ADEC GCL of 0.0046 mg/L.
- Ethylbenzene was detected at MW7 with a concentration of 0.0054 mg/L, which is below the ADEC GCL of 0.015 mg/L.
- The individual PAH constituents were either detected at levels below the applicable cleanup levels, or were not detected above the limit of quantification (LOQ), and all LOQs were below the applicable cleanup criteria.

3.3. Laboratory Quality Analytical Report

Rescon evaluated the precision, accuracy, sensitivity, representativeness, comparability, and completeness of the data by reviewing laboratory-supplied quality control (QC) information as well as conducting quality assurance checks on the data. The analytical

results were reported by SGS North America, Inc. in Anchorage, AK in work order 1173257. Rescon completed the ADEC data review checklist for the laboratory report, which is included as Appendix C. The following provides a brief summary of data quality for this project.

Samples were received in good condition and were delivered to the laboratory within the acceptable temperature range. There were no sample-handling discrepancies that affected data quality. Method reporting limits were below the relevant ADEC groundwater cleanup levels for each reported analyte. Sample-custody paperwork was complete with the appropriate sample analysis documentation and handling signatures. Sample holding times were met.

Laboratory QC information indicated sufficient analytical accuracy and precision. Additionally, the relative percent difference calculations for field-duplicate samples indicated adequate overall precision, as well as representativeness and comparability of the dataset.

Overall the dataset is considered complete (100%), with no data rejected during the review. The data are usable for the purposes of the project.

4. CONCLUSIONS AND RECOMMENDATIONS

Rescon performed groundwater sampling activities at the former Hanna Car Care Center on June 12, 2017. The objective of this sampling event was to assess the groundwater quality at the site. One primary sample and one field duplicate sample was collected from monitoring well MW7 for the analysis of GRO, BTEX and PAHs. Both the primary and duplicate water samples exhibited concentrations of GRO, benzene, ethylbenzene, and total xylenes below the applicable ADEC cleanup criteria. All the PAH constituents were either below the applicable ADEC cleanup levels, or were non-detectable.

Review of the analytical results from the groundwater sampling event indicates that GRO, BTEX, and PAH concentrations do not exist in the groundwater at levels above the ADEC cleanup levels at this site. The results from this sampling effort constitutes the fourth consecutive monitoring event in which, contaminant concentrations at MW7 have been below ADEC cleanup criteria. The results of the last four monitoring events indicate that the contaminant concentrations in the groundwater on the site are below ADEC cleanup levels and the remnant contamination does not pose an offsite migration exposure concern. Based on these findings, Rescon recommends that groundwater monitoring program at the former Hanna Car Care Center be discontinued, the monitoring wells be decommissioned, and that this site be awarded a Cleanup Complete status with Institutional Controls. Due to the existence of remnant contaminated soil on the property, Institutional Controls would be necessary to restrict future ground disturbance or soil or groundwater extraction activities without prior ADEC approval.

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5. REFERENCES

Alaska Department of Environmental Conservation (ADEC). 2017. Title 18 Alaska Administrative Code (AAC) Chapter 75 (18 AAC 75) – *Oil and hazardous Substances Pollution Control*. January.

ADEC, 2017. *Field Sampling Guidance*. August.

ADEC. 2015. Title 18 AAC Chapter 78 – *Underground Storage Tanks*. June.

FIGURES

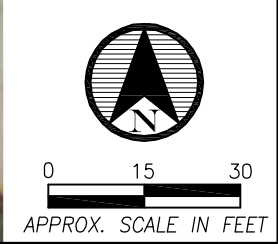
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PATH: D:\2016 Dwg\16 Rescon\16 Hanna\FILE: 41-002-HCW-GWS-F2.DWG PLOTTED: 11/2/16.



LEGEND	
MW-3	⊕ MONITORING WELL LOCATION
MW-2	⊖ MONITORING WELL - DECOMMISSIONED
MW-1	⊕ MONITORING WELL - NOT FOUND

SOURCE: GOOGLE EARTH PROFESSIONAL PHOTO DATED 4/14/2011.



DATE: NOV. 2016
REV.: -
CHKD: Z.C.K.
DRAWN: C.E.H.
PROJ. No.: 41-002

RESCON
alaska

1120 HUFFMAN ROAD
SUITE 24-431
ANCHORAGE ALASKA 99515
907-317-2473

SITE PLAN

2016 GROUNDWATER SAMPLING
FORMER HANNA CAR CARE CENTER
Anchorage, Alaska

FIGURE

2

TABLES

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**Table 1: Groundwater Analytical Results
Hanna Car Care Center**

Sample ID:		17-MW7	17-FD-1	17-EB-1	17-TB-1
Location ID:		MW7		Equipment Blank	Trip Blank
Collect Date:		6/12/2017	6/12/2017	6/12/2017	6/12/2017
Analyte	ADEC Cleanup Level (mg/L)	Laboratory Analytical Results (mg/L)			
Gasoline Range Organics	2.2	0.494	0.486	0.05 U	0.05 U
Benzene	0.0046	0.00419	0.00422	0.000025 U	0.00025 U
Toluene	1.1	0.0008 J	0.000910 J	0.00072 J	0.0005 U
Ethylbenzene	0.015	0.0054	0.00578 J	0.0005 U	0.0005 U
Total Xylenes	0.19	0.00154 J	0.00165 J	0.00143	0.001 U
1-Methylnaphthalene	0.011	0.00378	0.00349	0.0000219 J	-
2-Methylnaphthalene	0.036	0.000607	0.000536	0.0000377 J	-
Acenaphthene	0.53	0.0000652	0.0000245 U	0.0000250 U	-
Acenaphthylene	0.26	0.000024 U	0.0000245 U	0.0000250 U	-
Anthracene	0.043	0.000024 U	0.0000245 U	0.0000250 U	-
Benzo(a)Anthracene	0.00012	0.000024 U	0.0000245 U	0.0000250 U	-
Benzo[a]pyrene	0.000034	0.0000096 U	0.0000449	0.000010 U	-
Benzo[b]Fluoranthene	0.00034	0.0000982	0.0000998	0.000025 U	-
Benzo[g,h,i]perylene	0.00026	0.000115	0.00011	0.000025 U	-
Benzo[k]fluoranthene	0.0008	0.000024 U	0.0000245 U	0.000025 U	-
Chrysene	0.002	0.000024 U	0.0000245 U	0.000025 U	-
Dibenzo[a,h]anthracene	0.000034	0.0000096 U	0.0000098 U	0.00001 U	-
Fluoranthene	0.26	0.0000668	0.0000748	0.000028 J	-
Fluorene	0.29	0.0000282 J	0.0000245 U	0.000025 U	-
Indeno[1,2,3-c,d]pyrene	0.00019	0.0000459 J	0.00006	0.000025 U	-
Naphthalene	0.0017	0.000764	0.000599	0.0000598 J	-
Phenanthrene	0.17	0.0000505	0.0000457 J	0.0000392 J	-
Pyrene	0.12	0.000101	0.0000995	0.0000192 J	-

Notes:

Bolded underline red values exceed ADEC limits in groundwater.

Key

AK = Alaska Method

J = Estimated value.

U = Analyte was considered not detected at or above the LOD

% = percentage

mg/L = milligram per liter

APPENDIX A

Field Notes and Groundwater Data Sheets

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51°F

Overcast

Wind 7 mph SSW

Former Hanna Car Care

①

R. Bunick

12 June 17

0945 - Calibrate YSI 556 (13G100489).

1142 - Onsite. Speak w/owner of East Side Auto and Tire Service. Owner shows location of MW-7. Monument appears to be slightly crushed. Inside is filled w/sediment. Dig through sediment to expose compression cap. Cap is loose. Open cap and observe inner surface of monitoring well casing is coated in sediment. There could possibly be introduction of potential contaminants from ground surface.

1200 Collect depth-to-water measurement. (See data sheet).

1205 Begin purging water with pump placed @ ~ 13.9' below ground surface (in the upper 1' of water column).

R. Bunick

12 June 17

Scale: 1 square = _____

Rite in the Rain

(2)

Former Hanna Car Care

12 June 17 R. Bunick

1255 Water quality parameters are stabilized. Collect groundwater sample.

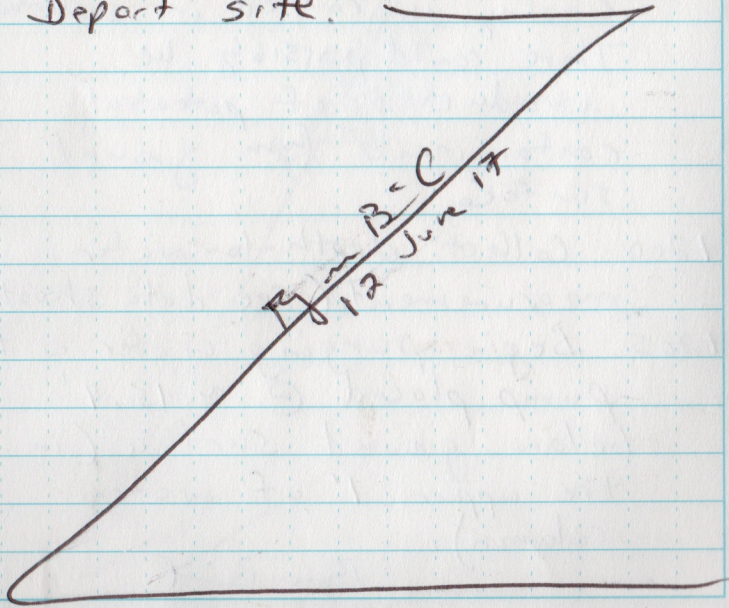
1300 Collect field duplicate.

1305 Decon submersible pump.

1310 Collect equipment blank by running distilled water through the pump.

1315 Label 5-gallon bucket of purge water and leave on site near garage entrance.

1320 Depart site.



GROUNDWATER SAMPLE DATA SHEET

Project Number: _____ Sample Location (ie. MW1): MW 7
 Project Name: Former Hanna Car Care Sample ID: 17-MW7
 Client: Tony Kim Date Sample Collected: 12 June 17
 Sampler: P. Burich Time sampled: 1255

Well Information

Groundwater: Yes Casing Diameter (in): 2 in a) Well Depth (ft): 19.29
 b) Water Depth (ft): 12.89
 Other: _____ c) Water Column (ft): 6.4
 d) Pump Depth (ft): ~~11.89~~ 13.9

± 3% FIELD MEASUREMENTS

Time	Volume (gallons)	±0.1 pH	Conductivity (mS)	Temperature (C)	Color	Turbidity	±10mv Redox	± 10% Dissolved O ₂	DTW
1234	0	6.18	0.307	6.32	Grey	Moderate	-14.2	0.99	12.89
1237	0.099	6.33	0.257	6.83	Grey	Moderate	-47.6	0.76	12.89
1240	0.198	6.38	0.248	7.01	Grey	Moderate	-53.4	0.66	12.89
1243	0.297	6.44	0.243	7.12	Grey	Moderate	-63.2	0.60	12.89
1246	0.396	6.48	0.240	7.06	Grey	Sl-Med	-68.1	0.64	12.89
1249	0.495	6.49	0.240	7.10	Grey	Sl-mod	-70.3	0.71	12.89
1252	0.594	6.51	0.239	7.08	Grey	Sl-mod	-71.0	0.71	12.89
1255	0.693	6.52	0.238	7.07	Grey	Sl-mod	-65.0	0.82	12.89

Total Volume Purged: 0.693 gal Free Product (y/n): No

Odor: None Sheen (y/n): No

Purge Method (disposable bailer, peristaltic pump, submersible pump, etc.)

125 ml/min

Sample Method (disposable bailer, peristaltic pump, submersible pump, etc.)

Well Integrity (condition of casing, flush mount sealing properly, cement seal intact, etc.)

Monument slightly crushed; monument filled w/ sediment.

Remarks (well recovery, unusual conditions/observations):

Good recovery. No draw down

Casing is ok. Compression cap is ok.

Duplicate Sample ID: 17-FD-1 on 12 June 17 @ 1300.

Split Sample ID: _____

Signed: [Signature]

Date: 12 June 17

Signed/reviewer: _____

Date: _____

Note: Well casing is frost-jacked. Trim well casing after collecting water sample (0.10')

APPENDIX B

SGS Analytical report

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Laboratory Report of Analysis

To: ResCon Alaska
1120 Huffman Rd Ste 24-431
Anchorage, AK 99515
(907)677-7423

Report Number: **1173257**

Client Project: **Hanna Car Care**

Dear Ryan Burich,

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

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

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

Sincerely,
SGS North America Inc.

Forest Taylor
Project Manager
Forest.Taylor@sgs.com

Date

Print Date: 06/26/2017 8:22:36AM

Case Narrative

SGS Client: **ResCon Alaska**
SGS Project: **1173257**
Project Name/Site: **Hanna Car Care**
Project Contact: **Ryan Burich**

Refer to sample receipt form for information on sample condition.

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

Print Date: 06/26/2017 8:22:36AM

Report of Manual Integrations

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analytical Batch</u>	<u>Analyte</u>	<u>Reason</u>
8270D SIM LV (PAH)				
1173257001	17-MW7	XMS10129	Benzo[b]Fluoranthene	BLC

Manual Integration Reason Code Descriptions

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

All DRO/RRO analysis are integrated per SOP.

Laboratory Qualifiers

Entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (W Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 20B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable,

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

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

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

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
17-MW7	1173257001	06/12/2017	06/12/2017	Water (Surface, Eff., Ground)
17-FD-1	1173257002	06/12/2017	06/12/2017	Water (Surface, Eff., Ground)
17-EB-1	1173257003	06/12/2017	06/12/2017	Water (Surface, Eff., Ground)
17-TB-1	1173257004	06/12/2017	06/12/2017	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
8270D SIM LV (PAH)	8270 PAH SIM GC/MS Liq/Liq ext. LV
AK101	AK101/8021 Combo.
SW8021B	AK101/8021 Combo.

Print Date: 06/26/2017 8:22:39AM

Detectable Results Summary

Client Sample ID: **17-MW7**

Lab Sample ID: 1173257001

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
1-Methylnaphthalene	3.78	ug/L
2-Methylnaphthalene	0.607	ug/L
Acenaphthene	0.0652	ug/L
Benzo[b]Fluoranthene	0.0982	ug/L
Benzo[g,h,i]perylene	0.115	ug/L
Fluoranthene	0.0668	ug/L
Fluorene	0.0282J	ug/L
Indeno[1,2,3-c,d] pyrene	0.0459J	ug/L
Naphthalene	0.764	ug/L
Phenanthrene	0.0505	ug/L
Pyrene	0.101	ug/L
Volatile Fuels		
Benzene	4.19	ug/L
Ethylbenzene	5.40	ug/L
Gasoline Range Organics	0.494	mg/L
o-Xylene	0.410J	ug/L
P & M -Xylene	1.13J	ug/L
Toluene	0.800J	ug/L

Client Sample ID: **17-FD-1**

Lab Sample ID: 1173257002

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
1-Methylnaphthalene	3.49	ug/L
2-Methylnaphthalene	0.536	ug/L
Benzo[a]pyrene	0.0449	ug/L
Benzo[b]Fluoranthene	0.0998	ug/L
Benzo[g,h,i]perylene	0.110	ug/L
Fluoranthene	0.0748	ug/L
Indeno[1,2,3-c,d] pyrene	0.0600	ug/L
Naphthalene	0.599	ug/L
Phenanthrene	0.0457J	ug/L
Pyrene	0.0995	ug/L
Volatile Fuels		
Benzene	4.22	ug/L
Ethylbenzene	5.78	ug/L
Gasoline Range Organics	0.486	mg/L
o-Xylene	0.480J	ug/L
P & M -Xylene	1.17J	ug/L
Toluene	0.910J	ug/L

Detectable Results Summary

Client Sample ID: **17-EB-1**

Lab Sample ID: 1173257003

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
1-Methylnaphthalene	0.0219J	ug/L
2-Methylnaphthalene	0.0377J	ug/L
Fluoranthene	0.0280J	ug/L
Naphthalene	0.0598J	ug/L
Phenanthrene	0.0392J	ug/L
Pyrene	0.0192J	ug/L
Volatile Fuels		
o-Xylene	0.430J	ug/L
Toluene	0.720J	ug/L

Print Date: 06/26/2017 8:22:41AM



Results of 17-MW7

Client Sample ID: **17-MW7**
 Client Project ID: **Hanna Car Care**
 Lab Sample ID: 1173257001
 Lab Project ID: 1173257

Collection Date: 06/12/17 12:55
 Received Date: 06/12/17 16:52
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
1-Methylnaphthalene	3.78	0.0481	0.0144	ug/L	1		06/15/17 22:52
2-Methylnaphthalene	0.607	0.0481	0.0144	ug/L	1		06/15/17 22:52
Acenaphthene	0.0652	0.0481	0.0144	ug/L	1		06/15/17 22:52
Acenaphthylene	0.0240 U	0.0481	0.0144	ug/L	1		06/15/17 22:52
Anthracene	0.0240 U	0.0481	0.0144	ug/L	1		06/15/17 22:52
Benzo(a)Anthracene	0.0240 U	0.0481	0.0144	ug/L	1		06/15/17 22:52
Benzo[a]pyrene	0.00960 U	0.0192	0.00596	ug/L	1		06/15/17 22:52
Benzo[b]Fluoranthene	0.0982	0.0481	0.0144	ug/L	1		06/15/17 22:52
Benzo[g,h,i]perylene	0.115	0.0481	0.0144	ug/L	1		06/15/17 22:52
Benzo[k]fluoranthene	0.0240 U	0.0481	0.0144	ug/L	1		06/15/17 22:52
Chrysene	0.0240 U	0.0481	0.0144	ug/L	1		06/15/17 22:52
Dibenzo[a,h]anthracene	0.00960 U	0.0192	0.00596	ug/L	1		06/15/17 22:52
Fluoranthene	0.0668	0.0481	0.0144	ug/L	1		06/15/17 22:52
Fluorene	0.0282 J	0.0481	0.0144	ug/L	1		06/15/17 22:52
Indeno[1,2,3-c,d] pyrene	0.0459 J	0.0481	0.0144	ug/L	1		06/15/17 22:52
Naphthalene	0.764	0.0962	0.0298	ug/L	1		06/15/17 22:52
Phenanthrene	0.0505	0.0481	0.0144	ug/L	1		06/15/17 22:52
Pyrene	0.101	0.0481	0.0144	ug/L	1		06/15/17 22:52
Surrogates							
2-Fluorobiphenyl (surr)	87.3	53-106		%	1		06/15/17 22:52
Terphenyl-d14 (surr)	72.9	58-132		%	1		06/15/17 22:52

Batch Information

Analytical Batch: XMS10129
 Analytical Method: 8270D SIM LV (PAH)
 Analyst: S.G
 Analytical Date/Time: 06/15/17 22:52
 Container ID: 1173257001-D

Prep Batch: XXX37584
 Prep Method: SW3520C
 Prep Date/Time: 06/15/17 09:11
 Prep Initial Wt./Vol.: 260 mL
 Prep Extract Vol: 1 mL



Results of 17-MW7

Client Sample ID: 17-MW7
Client Project ID: Hanna Car Care
Lab Sample ID: 1173257001
Lab Project ID: 1173257

Collection Date: 06/12/17 12:55
Received Date: 06/12/17 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.494, 0.100, 0.0310, mg/L, 1, 06/19/17 22:57

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 140, 50-150, %, 1, 06/19/17 22:57

Batch Information

Analytical Batch: VFC13686
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 06/19/17 22:57
Container ID: 1173257001-A

Prep Batch: VXX30693
Prep Method: SW5030B
Prep Date/Time: 06/19/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 95.9, 77-115, %, 1, 06/19/17 22:57

Batch Information

Analytical Batch: VFC13686
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 06/19/17 22:57
Container ID: 1173257001-A

Prep Batch: VXX30693
Prep Method: SW5030B
Prep Date/Time: 06/19/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 17-FD-1

Client Sample ID: 17-FD-1
Client Project ID: Hanna Car Care
Lab Sample ID: 1173257002
Lab Project ID: 1173257

Collection Date: 06/12/17 13:00
Received Date: 06/12/17 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Lists various polynuclear aromatic hydrocarbons and their surrogate compounds with associated quality and detection data.

Batch Information

Analytical Batch: XMS10129
Analytical Method: 8270D SIM LV (PAH)
Analyst: S.G
Analytical Date/Time: 06/15/17 23:15
Container ID: 1173257002-D

Prep Batch: XXX37584
Prep Method: SW3520C
Prep Date/Time: 06/15/17 09:11
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL



Results of 17-FD-1

Client Sample ID: 17-FD-1
Client Project ID: Hanna Car Care
Lab Sample ID: 1173257002
Lab Project ID: 1173257

Collection Date: 06/12/17 13:00
Received Date: 06/12/17 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile Fuels

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: Gasoline Range Organics, 0.486, 0.100, 0.0310, mg/L, 1, 06/19/17 23:55

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 4-Bromofluorobenzene (surr), 134, 50-150, %, 1, 06/19/17 23:55

Batch Information

Analytical Batch: VFC13686
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 06/19/17 23:55
Container ID: 1173257002-A

Prep Batch: VXX30693
Prep Method: SW5030B
Prep Date/Time: 06/19/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

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

Surrogates

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row: 1,4-Difluorobenzene (surr), 92.4, 77-115, %, 1, 06/19/17 23:55

Batch Information

Analytical Batch: VFC13686
Analytical Method: SW8021B
Analyst: ST
Analytical Date/Time: 06/19/17 23:55
Container ID: 1173257002-A

Prep Batch: VXX30693
Prep Method: SW5030B
Prep Date/Time: 06/19/17 08:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL



Results of 17-EB-1

Client Sample ID: 17-EB-1
Client Project ID: Hanna Car Care
Lab Sample ID: 1173257003
Lab Project ID: 1173257

Collection Date: 06/12/17 13:10
Received Date: 06/12/17 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

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

Batch Information

Analytical Batch: XMS10137
Analytical Method: 8270D SIM LV (PAH)
Analyst: S.G
Analytical Date/Time: 06/19/17 16:46
Container ID: 1173257003-D

Prep Batch: XXX37584
Prep Method: SW3520C
Prep Date/Time: 06/15/17 09:11
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL



Results of 17-EB-1

Client Sample ID: **17-EB-1**
 Client Project ID: **Hanna Car Care**
 Lab Sample ID: 1173257003
 Lab Project ID: 1173257

Collection Date: 06/12/17 13:10
 Received Date: 06/12/17 16:52
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		06/20/17 02:50

Surrogates

4-Bromofluorobenzene (surr)	91.4	50-150		%	1		06/20/17 02:50
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Batch Information

Analytical Batch: VFC13686
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 06/20/17 02:50
 Container ID: 1173257003-A

Prep Batch: VXX30694
 Prep Method: SW5030B
 Prep Date/Time: 06/19/17 08:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.250 U	0.500	0.150	ug/L	1		06/20/17 02:50
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/20/17 02:50
o-Xylene	0.430 J	1.00	0.310	ug/L	1		06/20/17 02:50
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/20/17 02:50
Toluene	0.720 J	1.00	0.310	ug/L	1		06/20/17 02:50

Surrogates

1,4-Difluorobenzene (surr)	91	77-115		%	1		06/20/17 02:50
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Batch Information

Analytical Batch: VFC13686
 Analytical Method: SW8021B
 Analyst: ST
 Analytical Date/Time: 06/20/17 02:50
 Container ID: 1173257003-A

Prep Batch: VXX30694
 Prep Method: SW5030B
 Prep Date/Time: 06/19/17 08:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Results of 17-TB-1

Client Sample ID: **17-TB-1**
 Client Project ID: **Hanna Car Care**
 Lab Sample ID: 1173257004
 Lab Project ID: 1173257

Collection Date: 06/12/17 08:00
 Received Date: 06/12/17 16:52
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Volatile Fuels

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Gasoline Range Organics	0.0500 U	0.100	0.0310	mg/L	1		06/20/17 01:32

Surrogates

4-Bromofluorobenzene (surr)	92.1	50-150		%	1		06/20/17 01:32
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Batch Information

Analytical Batch: VFC13686
 Analytical Method: AK101
 Analyst: ST
 Analytical Date/Time: 06/20/17 01:32
 Container ID: 1173257004-A

Prep Batch: VXX30694
 Prep Method: SW5030B
 Prep Date/Time: 06/19/17 08:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.250 U	0.500	0.150	ug/L	1		06/20/17 01:32
Ethylbenzene	0.500 U	1.00	0.310	ug/L	1		06/20/17 01:32
o-Xylene	0.500 U	1.00	0.310	ug/L	1		06/20/17 01:32
P & M -Xylene	1.00 U	2.00	0.620	ug/L	1		06/20/17 01:32
Toluene	0.500 U	1.00	0.310	ug/L	1		06/20/17 01:32

Surrogates

1,4-Difluorobenzene (surr)	92.4	77-115		%	1		06/20/17 01:32
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Batch Information

Analytical Batch: VFC13686
 Analytical Method: SW8021B
 Analyst: ST
 Analytical Date/Time: 06/20/17 01:32
 Container ID: 1173257004-A

Prep Batch: VXX30694
 Prep Method: SW5030B
 Prep Date/Time: 06/19/17 08:00
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1761586 [VXX/30693]

Blank Lab ID: 1391968

QC for Samples:

1173257001, 1173257002

Matrix: Water (Surface, Eff., Ground)

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	85.1	50-150		%

Batch Information

Analytical Batch: VFC13686

Analytical Method: AK101

Instrument: Agilent 7890 PID/FID

Analyst: ST

Analytical Date/Time: 6/19/2017 3:50:00PM

Prep Batch: VXX30693

Prep Method: SW5030B

Prep Date/Time: 6/19/2017 8:00:00AM

Prep Initial Wt./Vol.: 5 mL

Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1173257 [VXX30693]
 Blank Spike Lab ID: 1391971
 Date Analyzed: 06/19/2017 16:48

Spike Duplicate ID: LCSD for HBN 1173257 [VXX30693]
 Spike Duplicate Lab ID: 1391972
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1173257001, 1173257002

Results by AK101

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Gasoline Range Organics	1.00	1.02	102	1.00	0.981	98	(60-120)	4.20	(< 20)

Surrogates

4-Bromofluorobenzene (surr)	0.0500	96.2	96	0.0500	94.6	95	(50-150)	1.60	
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Batch Information

Analytical Batch: **VFC13686**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX30693**
 Prep Method: **SW5030B**
 Prep Date/Time: **06/19/2017 08:00**
 Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1761586 [VXX/30693]

Blank Lab ID: 1391968

QC for Samples:

1173257001, 1173257002

Matrix: Water (Surface, Eff., Ground)

Results by SW8021B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
Toluene	0.500U	1.00	0.310	ug/L

Surrogates

1,4-Difluorobenzene (surr)	94.5	77-115		%
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Batch Information

Analytical Batch: VFC13686
 Analytical Method: SW8021B
 Instrument: Agilent 7890 PID/FID
 Analyst: ST
 Analytical Date/Time: 6/19/2017 3:50:00PM

Prep Batch: VXX30693
 Prep Method: SW5030B
 Prep Date/Time: 6/19/2017 8:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1173257 [VXX30693]
 Blank Spike Lab ID: 1391969
 Date Analyzed: 06/19/2017 16:29

Spike Duplicate ID: LCSD for HBN 1173257 [VXX30693]
 Spike Duplicate Lab ID: 1391970
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1173257001, 1173257002

Results by SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	111	111	100	113	113	(80-120)	2.10	(< 20)
Ethylbenzene	100	107	107	100	108	108	(75-125)	0.80	(< 20)
o-Xylene	100	105	105	100	103	103	(80-120)	2.00	(< 20)
P & M -Xylene	200	211	105	200	211	105	(75-130)	0.01	(< 20)
Toluene	100	105	105	100	107	107	(75-120)	1.80	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50	104	104	50	98.2	98	(77-115)	6.00	

Batch Information

Analytical Batch: **VFC13686**
 Analytical Method: **SW8021B**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX30693**
 Prep Method: **SW5030B**
 Prep Date/Time: **06/19/2017 08:00**
 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1761588 [VXX/30694]

Blank Lab ID: 1391982

QC for Samples:

1173257003, 1173257004

Matrix: Water (Surface, Eff., Ground)

Results by AK101

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	87.8	50-150		%

Batch Information

Analytical Batch: VFC13686
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 6/20/2017 12:34:00AM

Prep Batch: VXX30694
Prep Method: SW5030B
Prep Date/Time: 6/19/2017 8:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1173257 [VXX30694]
 Blank Spike Lab ID: 1391985
 Date Analyzed: 06/20/2017 06:22

Spike Duplicate ID: LCSD for HBN 1173257
 [VXX30694]
 Spike Duplicate Lab ID: 1391986
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1173257003, 1173257004

Results by AK101

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Gasoline Range Organics	1.00	0.981	98	1.00	0.977	98	(60-120)	0.42	(< 20)

Surrogates

4-Bromofluorobenzene (surr)	0.0500	92.2	92	0.0500	94.7	95	(50-150)	2.70	
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Batch Information

Analytical Batch: **VFC13686**
 Analytical Method: **AK101**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX30694**
 Prep Method: **SW5030B**
 Prep Date/Time: **06/19/2017 08:00**
 Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1761588 [VXX/30694]
 Blank Lab ID: 1391982

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1173257003, 1173257004

Results by SW8021B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Benzene	0.250U	0.500	0.150	ug/L
Ethylbenzene	0.500U	1.00	0.310	ug/L
o-Xylene	0.500U	1.00	0.310	ug/L
P & M -Xylene	1.00U	2.00	0.620	ug/L
Toluene	0.500U	1.00	0.310	ug/L
Surrogates				
1,4-Difluorobenzene (surr)	92.9	77-115		%

Batch Information

Analytical Batch: VFC13686
 Analytical Method: SW8021B
 Instrument: Agilent 7890 PID/FID
 Analyst: ST
 Analytical Date/Time: 6/20/2017 12:34:00AM

Prep Batch: VXX30694
 Prep Method: SW5030B
 Prep Date/Time: 6/19/2017 8:00:00AM
 Prep Initial Wt./Vol.: 5 mL
 Prep Extract Vol: 5 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1173257 [VXX30694]
 Blank Spike Lab ID: 1391983
 Date Analyzed: 06/20/2017 06:03

Spike Duplicate ID: LCSD for HBN 1173257
 [VXX30694]
 Spike Duplicate Lab ID: 1391984
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1173257003, 1173257004

Results by SW8021B

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	100	112	112	100	113	113	(80-120)	0.70	(< 20)
Ethylbenzene	100	106	106	100	107	107	(75-125)	0.81	(< 20)
o-Xylene	100	101	101	100	104	104	(80-120)	3.20	(< 20)
P & M -Xylene	200	207	103	200	210	105	(75-130)	1.60	(< 20)
Toluene	100	106	106	100	107	107	(75-120)	0.56	(< 20)
Surrogates									
1,4-Difluorobenzene (surr)	50	110	110	50	104	104	(77-115)	5.70	

Batch Information

Analytical Batch: **VFC13686**
 Analytical Method: **SW8021B**
 Instrument: **Agilent 7890 PID/FID**
 Analyst: **ST**

Prep Batch: **VXX30694**
 Prep Method: **SW5030B**
 Prep Date/Time: **06/19/2017 08:00**
 Spike Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL
 Dupe Init Wt./Vol.: 100 ug/L Extract Vol: 5 mL

Method Blank

Blank ID: MB for HBN 1761085 [XXX/37584]
 Blank Lab ID: 1390909

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1173257001, 1173257002, 1173257003

Results by 8270D SIM LV (PAH)

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
1-Methylnaphthalene	0.0250U	0.0500	0.0150	ug/L
2-Methylnaphthalene	0.0250U	0.0500	0.0150	ug/L
Acenaphthene	0.0250U	0.0500	0.0150	ug/L
Acenaphthylene	0.0250U	0.0500	0.0150	ug/L
Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo(a)Anthracene	0.0250U	0.0500	0.0150	ug/L
Benzo[a]pyrene	0.0100U	0.0200	0.00620	ug/L
Benzo[b]Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Benzo[g,h,i]perylene	0.0250U	0.0500	0.0150	ug/L
Benzo[k]fluoranthene	0.0250U	0.0500	0.0150	ug/L
Chrysene	0.0250U	0.0500	0.0150	ug/L
Dibenzo[a,h]anthracene	0.0100U	0.0200	0.00620	ug/L
Fluoranthene	0.0250U	0.0500	0.0150	ug/L
Fluorene	0.0250U	0.0500	0.0150	ug/L
Indeno[1,2,3-c,d] pyrene	0.0250U	0.0500	0.0150	ug/L
Naphthalene	0.0500U	0.100	0.0310	ug/L
Phenanthrene	0.0250U	0.0500	0.0150	ug/L
Pyrene	0.0250U	0.0500	0.0150	ug/L
Surrogates				
2-Fluorobiphenyl (surr)	82.8	53-106		%
Terphenyl-d14 (surr)	82.8	58-132		%

Batch Information

Analytical Batch: XMS10129
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent GC 7890B/5977A SWA
 Analyst: S.G
 Analytical Date/Time: 6/15/2017 8:15:00PM

Prep Batch: XXX37584
 Prep Method: SW3520C
 Prep Date/Time: 6/15/2017 9:11:26AM
 Prep Initial Wt./Vol.: 250 mL
 Prep Extract Vol: 1 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1173257 [XXX37584]
 Blank Spike Lab ID: 1390910
 Date Analyzed: 06/15/2017 20:37

Spike Duplicate ID: LCSD for HBN 1173257
 [XXX37584]
 Spike Duplicate Lab ID: 1390911
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1173257001, 1173257002, 1173257003

Results by 8270D SIM LV (PAH)

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
1-Methylnaphthalene	2	1.59	79	2	1.67	83	(41-115)	5.20	(< 20)
2-Methylnaphthalene	2	1.49	74	2	1.55	77	(39-114)	4.10	(< 20)
Acenaphthene	2	1.94	97	2	1.93	96	(48-114)	0.65	(< 20)
Acenaphthylene	2	1.61	81	2	1.63	82	(35-121)	1.20	(< 20)
Anthracene	2	1.74	87	2	1.79	90	(53-119)	2.80	(< 20)
Benzo(a)Anthracene	2	1.67	84	2	1.56	78	(59-120)	6.90	(< 20)
Benzo[a]pyrene	2	1.54	77	2	1.43	72	(53-120)	7.10	(< 20)
Benzo[b]Fluoranthene	2	1.61	81	2	1.52	76	(53-126)	5.50	(< 20)
Benzo[g,h,i]perylene	2	1.43	72	2	1.30	65	(44-128)	9.90	(< 20)
Benzo[k]fluoranthene	2	1.66	83	2	1.51	76	(54-125)	9.30	(< 20)
Chrysene	2	1.76	88	2	1.67	84	(57-120)	5.20	(< 20)
Dibenzo[a,h]anthracene	2	1.41	71	2	1.29	64	(44-131)	9.00	(< 20)
Fluoranthene	2	1.72	86	2	1.64	82	(58-120)	5.10	(< 20)
Fluorene	2	1.72	86	2	1.76	88	(50-118)	2.30	(< 20)
Indeno[1,2,3-c,d] pyrene	2	1.47	74	2	1.37	69	(48-130)	7.10	(< 20)
Naphthalene	2	1.22	61	2	1.32	66	(43-114)	7.60	(< 20)
Phenanthrene	2	1.65	82	2	1.79	89	(53-115)	8.10	(< 20)
Pyrene	2	1.81	91	2	1.70	85	(53-121)	6.60	(< 20)

Surrogates

2-Fluorobiphenyl (surr)	2	93.2	93	2	101	101	(53-106)	8.40	
Terphenyl-d14 (surr)	2	105	105	2	103	103	(58-132)	1.90	

Batch Information

Analytical Batch: XMS10129
 Analytical Method: 8270D SIM LV (PAH)
 Instrument: Agilent GC 7890B/5977A SWA
 Analyst: S.G

Prep Batch: XXX37584
 Prep Method: SW3520C
 Prep Date/Time: 06/15/2017 09:11
 Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL
 Dupe Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1173257

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

CLIENT: Rescon Alaska CONTACT: Ryan Barick PHONE #: 341-9305		Section 3 Preservative	
PROJECT NAME: Hanna Car Care Project/PWSID/PERMIT#: 41-002		# CONTAINERS Pres: Type: Comp Grab MI (Multi-Incremental) HCL None	
REPORTS TO: Ryan Barick E-MAIL: rbarick@resconalaska.com		GRO/BTEX (AK101/8021B) PAH (8270D-SIM)	
INVOICE TO: Rescon QUOTE #: ? P.O. #: 41-002		REMARKS/LOC ID	
RESERVED for lab use			
SAMPLE IDENTIFICATION 17-MW7 17-FD-1 17-EB-1 17-TB-1		DATE mm/dd/yy 6/12/17 6/12/17 6/12/17 6/12/17	
TIME HH:MM 1855 1300 1310 0800		MATRIX/MATRIX CODE Water Water Water Water	
Relinquished By: (1) Ryan Barick Date: 6/12/17 Time: 1651		Received By: Ryan Barick Date: 6/12/17	
Relinquished By: (2) Ryan Barick Date: Time:		Received By:	
Relinquished By: (3) Date: Time:		Received By:	
Relinquished By: (4) Date: 6/12/17 Time: 10:52		Received For Laboratory By: Date: Time:	
Section 4 DOD Project? Yes (No)		Data Deliverable Requirements: Standard	
Cooler ID: N/A		Requested Turnaround Time and/or Special Instructions: Standard Turnaround	
Temp Blank °C: 4.50 or Ambient []		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT	

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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



e-Sample Receipt Form

SGS Workorder #:

1173257



1 1 7 3 2 5 7

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements	<input checked="" type="checkbox"/>	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	
COC accompanied samples?	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	<input checked="" type="checkbox"/>	Cooler ID: 1 @ 4.5 °C Therm. ID: 21
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
If samples received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	<input checked="" type="checkbox"/>	
Do samples match COC** (i.e., sample IDs, dates/times collected)?	<input checked="" type="checkbox"/>	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	<input checked="" type="checkbox"/>	
Were proper containers (type/mass/volume/preservative***) used?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ***Exemption permitted for metals (e.g. 200.8/6020A).
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	<input checked="" type="checkbox"/>	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	<input checked="" type="checkbox"/>	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.		
Additional notes (if applicable):		



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1173257001-A	HCL to pH < 2	OK			
1173257001-B	HCL to pH < 2	OK			
1173257001-C	HCL to pH < 2	OK			
1173257001-D	No Preservative Required	OK			
1173257001-E	No Preservative Required	OK			
1173257002-A	HCL to pH < 2	OK			
1173257002-B	HCL to pH < 2	OK			
1173257002-C	HCL to pH < 2	OK			
1173257002-D	No Preservative Required	OK			
1173257002-E	No Preservative Required	OK			
1173257003-A	HCL to pH < 2	OK			
1173257003-B	HCL to pH < 2	OK			
1173257003-C	HCL to pH < 2	OK			
1173257003-D	No Preservative Required	OK			
1173257003-E	No Preservative Required	OK			
1173257004-A	HCL to pH < 2	OK			
1173257004-B	HCL to pH < 2	OK			
1173257004-C	HCL to pH < 2	OK			

Container Condition Glossary

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

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

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

DM- The container was received damaged.

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

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

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

APPENDIX C

ADEC Laboratory Data Review Checklist

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Laboratory Data Review Checklist

Completed by:

Title: Date:

CS Report Name: Report Date:

Consultant Firm:

Laboratory Name: Laboratory Report Number:

ADEC File Number: ADEC RecKey Number:

1. Laboratory

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

b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
 Yes No NA (Please explain.) Comments:

2. Chain of Custody (COC)

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

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

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ} \text{C}$)?
 Yes No NA (Please explain.) Comments:

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:

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

Yes No NA (Please explain.)

Comments:

There were no sample-receiving discrepancies.

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

Comments:

Data quality and usability were 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:

c.

- d. Were all corrective actions documented?

Yes No NA (Please explain.)

Comments:

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

Comments:

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:

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

Comments:

e. Data quality or usability affected?

Comments:

- 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:

iii. If above PQL, what samples are affected?

Comments:

N/A, see above.

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

Yes No NA (Please explain.)

Comments:

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

Comments:

Data quality and 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:

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:

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

Yes No NA (Please explain.) Comments:

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

Comments:

NA

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

Yes No NA (Please explain.) Comments:

See above.

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

Comments:

Data quality or usability was not affected.

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:

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

Comments:

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:

One cooler was used to transport all of the samples.

iii. All results less than PQL?

Yes No NA (Please explain.) Comments:

iv. If above PQL, what samples are affected?

Comments:

N/A

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

Comments:

Data quality and usability were unaffected.

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?

APPENDIX D

Waste Management

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. VSQG		Manifest Document No. 124949A	2. Page 1 of 1
3. Generator's Name and Mailing Address RESCON ALASKA, LLC 1120 HUFFMAN ROAD (24-431) ANCHORAGE, AK 99515		RESCON ALASKA FOR TONY KIM 180 MULDOON ROAD ANCHORAGE, AK 99501			
4. Generator's Phone ()					
5. Transporter 1 Company Name CLIENT DELIVERED		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address NRC ALASKA LLC 2020 VIKING DRIVE ANCHORAGE, AK 99501		10. US EPA ID Number AKR000004184		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone (907) 258-1558	
11. WASTE DESCRIPTION			Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. HM Material Not Regulated by DOT			1	DF	20 P
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
1) EA0301 OILY WATER			D15077		
15. Special Handling Instructions and Additional Information Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name KYNAN ADAMS			Signature <i>Kynan Adams</i>		Date 04/10/18
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>Kynan Adams</i>		Date 04/10/18
Printed/Typed Name KYNAN ADAMS			Signature <i>Kynan Adams</i>		Date 04/10/18
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Date
Printed/Typed Name			Signature		Month Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name			Signature		Date Month Day Year

NON-HAZARDOUS WASTE GENERATOR