

ANALYTICAL REPORT

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Laboratory Job ID: 580-111290-1
Client Project/Site: Red Hill NOI GW

For:
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Authorized for release by:
3/23/2022 5:52:38 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions	5
Client Sample Results	6
QC Sample Results	12
Chronicle	18
Certification Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	24

Case Narrative

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Job ID: 580-111290-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE Client: AECOM Project: Red Hill NOI GW Report Number: 580-111290-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Three samples were received on 3/11/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.7° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): ERH2689 (RHMW2254-01, Low Flow) (580-111290-2). The container labels list collection time of 1400, while the COC lists 1315. Time on the COC was used for login.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples ERH2686 (RHMW2254-01, Bailer) (580-111290-1), ERH2689 (RHMW2254-01, Low Flow) (580-111290-2) and ERH2764 (ADIT 3 SUMP) (580-111290-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270E. The samples were prepared on 03/16/2022 and analyzed on 03/17/2022.

The following analytes have been identified in the reference method and/or via historical data to be poor and/or erratic performers: 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. These analytes may have a %D >60%.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-384146 was outside criteria for the following analyte: N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte is considered estimated.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-383995 and

Case Narrative

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Job ID: 580-111290-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

analytical batch 580-384146 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Phenol, Pyridine and 3 & 4 Methylphenol.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS - SIM)

Samples ERH2686 (RHMW2254-01, Bailer) (580-111290-1), ERH2689 (RHMW2254-01, Low Flow) (580-111290-2) and ERH2764 (ADIT 3 SUMP) (580-111290-3) were analyzed for semivolatile organic compounds (GC-MS - SIM) in accordance with 8270E SIM. The samples were prepared on 03/16/2022 and analyzed on 03/17/2022.

Chrysene was detected in method blank MB 580-383995/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed...

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

Definitions/Glossary

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFI	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2686 (RHMW2254-01, Bailer)

Lab Sample ID: 580-111290-1

Date Collected: 03/09/22 13:20

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.033	U	0.10	0.019	ug/L		03/16/22 09:47	03/17/22 18:53	1
2-Methylnaphthalene	0.081	U	0.20	0.040	ug/L		03/16/22 09:47	03/17/22 18:53	1
Acenaphthene	0.033	U M	0.10	0.014	ug/L		03/16/22 09:47	03/17/22 18:53	1
Acenaphthylene	0.033	U M	0.051	0.0092	ug/L		03/16/22 09:47	03/17/22 18:53	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/16/22 09:47	03/17/22 18:53	1
Benzo[a]anthracene	0.033	U M	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 18:53	1
Benzo[a]pyrene	0.033	U	0.10	0.011	ug/L		03/16/22 09:47	03/17/22 18:53	1
Benzo[b]fluoranthene	0.033	U	0.051	0.011	ug/L		03/16/22 09:47	03/17/22 18:53	1
Benzo[g,h,i]perylene	0.033	U	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 18:53	1
Benzo[k]fluoranthene	0.033	U	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 18:53	1
Chrysene	0.033	U M	0.10	0.016	ug/L		03/16/22 09:47	03/17/22 18:53	1
Dibenz(a,h)anthracene	0.033	U	0.10	0.026	ug/L		03/16/22 09:47	03/17/22 18:53	1
Fluoranthene	0.033	U M	0.20	0.018	ug/L		03/16/22 09:47	03/17/22 18:53	1
Fluorene	0.033	U	0.10	0.017	ug/L		03/16/22 09:47	03/17/22 18:53	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 18:53	1
Naphthalene	0.081	U M	0.10	0.032	ug/L		03/16/22 09:47	03/17/22 18:53	1
Phenanthrene	0.081	U	0.10	0.032	ug/L		03/16/22 09:47	03/17/22 18:53	1
Pyrene	0.081	U M	0.10	0.034	ug/L		03/16/22 09:47	03/17/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	53		40 - 140	03/16/22 09:47	03/17/22 18:53	1
Fluoranthene-d10 (Surr)	78		40 - 140	03/16/22 09:47	03/17/22 18:53	1
Terphenyl-d14	84		58 - 132	03/16/22 09:47	03/17/22 18:53	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.31	U Q	0.41	0.092	ug/L		03/16/22 09:47	03/17/22 15:32	1
1,2-Dichlorobenzene	0.15	U	0.41	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
1,3-Dichlorobenzene	0.092	U Q	0.41	0.041	ug/L		03/16/22 09:47	03/17/22 15:32	1
1,4-Dichlorobenzene	0.092	U	0.41	0.041	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4,5-Trichlorophenol	0.31	U	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4,6-Trichlorophenol	0.31	U	0.61	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4-Dichlorophenol	0.51	U	1.0	0.20	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4-Dimethylphenol	0.51	U M	4.1	0.16	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4-Dinitrophenol	3.3	U Q	5.1	1.6	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,4-Dinitrotoluene	0.31	U M	1.0	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
2,6-Dinitrotoluene	0.31	U M	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:32	1
2-Chlorophenol	0.15	U	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
2-Nitrophenol	0.15	U	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:32	1
3,3'-Dichlorobenzidine	0.61	U M	1.0	0.26	ug/L		03/16/22 09:47	03/17/22 15:32	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.56	ug/L		03/16/22 09:47	03/17/22 15:32	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
4-Chloro-3-methylphenol	0.31	U M	0.61	0.13	ug/L		03/16/22 09:47	03/17/22 15:32	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
4-Nitrophenol	6.1	U M	10	1.7	ug/L		03/16/22 09:47	03/17/22 15:32	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
Bis(2-chloroethyl)ether	0.092	U	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 15:32	1
Bis(2-ethylhexyl) phthalate	0.78	J	3.1	0.75	ug/L		03/16/22 09:47	03/17/22 15:32	1

Euromins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2686 (RHMW2254-01, Bailer)

Lab Sample ID: 580-111290-1

Date Collected: 03/09/22 13:20

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
Butyl benzyl phthalate	0.61	U	4.1	0.28	ug/L		03/16/22 09:47	03/17/22 15:32	1
Diethyl phthalate	0.31	U M	1.0	0.15	ug/L		03/16/22 09:47	03/17/22 15:32	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
Di-n-butyl phthalate	0.51	U	3.1	0.19	ug/L		03/16/22 09:47	03/17/22 15:32	1
Di-n-octyl phthalate	0.31	U M	1.0	0.13	ug/L		03/16/22 09:47	03/17/22 15:32	1
Hexachlorobenzene	0.092	U	0.61	0.041	ug/L		03/16/22 09:47	03/17/22 15:32	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
Hexachlorocyclopentadiene	0.31	U Q	1.0	0.14	ug/L		03/16/22 09:47	03/17/22 15:32	1
Hexachloroethane	0.15	U Q	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
Isophorone	0.31	U	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
m+p-Cresol	0.31	U M Q	0.61	0.10	ug/L		03/16/22 09:47	03/17/22 15:32	1
Nitrobenzene	0.092	U M	1.0	0.041	ug/L		03/16/22 09:47	03/17/22 15:32	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/16/22 09:47	03/17/22 15:32	1
N-Nitrosodi-n-propylamine	0.092	U M	0.41	0.061	ug/L		03/16/22 09:47	03/17/22 15:32	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:32	1
o-Cresol	0.15	U M	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:32	1
Pentachlorophenol	1.0	U	10	0.52	ug/L		03/16/22 09:47	03/17/22 15:32	1
Phenol	0.61	U M Q	1.0	0.37	ug/L		03/16/22 09:47	03/17/22 15:32	1
Pyrene	0.092	U	1.0	0.041	ug/L		03/16/22 09:47	03/17/22 15:32	1
Pyridine	3.3	U Q	10	1.1	ug/L		03/16/22 09:47	03/17/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		43 - 140	03/16/22 09:47	03/17/22 15:32	1
2-Fluorobiphenyl	54		44 - 119	03/16/22 09:47	03/17/22 15:32	1
2-Fluorophenol (Surr)	42		19 - 119	03/16/22 09:47	03/17/22 15:32	1
Nitrobenzene-d5 (Surr)	71		44 - 120	03/16/22 09:47	03/17/22 15:32	1
Phenol-d5 (Surr)	25		10 - 120	03/16/22 09:47	03/17/22 15:32	1
Terphenyl-d14	100		50 - 134	03/16/22 09:47	03/17/22 15:32	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2689 (RHMW2254-01, Low Flow)

Lab Sample ID: 580-111290-2

Date Collected: 03/09/22 13:15

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/16/22 09:47	03/17/22 19:12	1
2-Methylnaphthalene	0.081	U	0.20	0.039	ug/L		03/16/22 09:47	03/17/22 19:12	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/16/22 09:47	03/17/22 19:12	1
Acenaphthylene	0.032	U M	0.051	0.0091	ug/L		03/16/22 09:47	03/17/22 19:12	1
Anthracene	0.081	U M	0.10	0.022	ug/L		03/16/22 09:47	03/17/22 19:12	1
Benzo[a]anthracene	0.032	U M	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 19:12	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/16/22 09:47	03/17/22 19:12	1
Benzo[b]fluoranthene	0.032	U	0.051	0.011	ug/L		03/16/22 09:47	03/17/22 19:12	1
Benzo[g,h,i]perylene	0.032	U	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 19:12	1
Benzo[k]fluoranthene	0.032	U	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 19:12	1
Chrysene	0.032	U M	0.10	0.016	ug/L		03/16/22 09:47	03/17/22 19:12	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/16/22 09:47	03/17/22 19:12	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/16/22 09:47	03/17/22 19:12	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/16/22 09:47	03/17/22 19:12	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 19:12	1
Naphthalene	0.081	U M	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 19:12	1
Phenanthrene	0.081	U M	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 19:12	1
Pyrene	0.081	U M	0.10	0.033	ug/L		03/16/22 09:47	03/17/22 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	57		40 - 140	03/16/22 09:47	03/17/22 19:12	1
Fluoranthene-d10 (Surr)	79		40 - 140	03/16/22 09:47	03/17/22 19:12	1
Terphenyl-d14	84		58 - 132	03/16/22 09:47	03/17/22 19:12	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.30	U Q	0.40	0.091	ug/L		03/16/22 09:47	03/17/22 15:56	1
1,2-Dichlorobenzene	0.15	U	0.40	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/16/22 09:47	03/17/22 15:56	1
1,4-Dichlorobenzene	0.091	U	0.40	0.040	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4,6-Trichlorophenol	0.30	U	0.61	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4-Dichlorophenol	0.51	U	1.0	0.20	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4-Dimethylphenol	0.51	U	4.0	0.16	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4-Dinitrophenol	3.2	U Q	5.1	1.6	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
2-Chloronaphthalene	0.15	U	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:56	1
2-Chlorophenol	0.15	U	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
2-Nitrophenol	0.15	U	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:56	1
3,3'-Dichlorobenzidine	0.61	U	1.0	0.26	ug/L		03/16/22 09:47	03/17/22 15:56	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.56	ug/L		03/16/22 09:47	03/17/22 15:56	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
4-Chloro-3-methylphenol	0.30	U M	0.61	0.13	ug/L		03/16/22 09:47	03/17/22 15:56	1
4-Chlorophenyl phenyl ether	0.15	U	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
4-Nitrophenol	6.1	U	10	1.7	ug/L		03/16/22 09:47	03/17/22 15:56	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
Bis(2-chloroethoxy)methane	0.15	U	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
Bis(2-chloroethyl)ether	0.091	U	0.10	0.030	ug/L		03/16/22 09:47	03/17/22 15:56	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.75	ug/L		03/16/22 09:47	03/17/22 15:56	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2689 (RHMW2254-01, Low Flow)

Lab Sample ID: 580-111290-2

Date Collected: 03/09/22 13:15

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
Butyl benzyl phthalate	0.61	U	4.0	0.27	ug/L		03/16/22 09:47	03/17/22 15:56	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/16/22 09:47	03/17/22 15:56	1
Dimethyl phthalate	0.15	U	0.61	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
Di-n-butyl phthalate	0.51	U	3.0	0.19	ug/L		03/16/22 09:47	03/17/22 15:56	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/16/22 09:47	03/17/22 15:56	1
Hexachlorobenzene	0.091	U	0.61	0.040	ug/L		03/16/22 09:47	03/17/22 15:56	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/16/22 09:47	03/17/22 15:56	1
Hexachloroethane	0.15	U Q	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
m+p-Cresol	0.30	U M Q	0.61	0.10	ug/L		03/16/22 09:47	03/17/22 15:56	1
Nitrobenzene	0.091	U	1.0	0.040	ug/L		03/16/22 09:47	03/17/22 15:56	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/16/22 09:47	03/17/22 15:56	1
N-Nitrosodi-n-propylamine	0.091	U	0.40	0.061	ug/L		03/16/22 09:47	03/17/22 15:56	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.071	ug/L		03/16/22 09:47	03/17/22 15:56	1
o-Cresol	0.15	U M	0.61	0.051	ug/L		03/16/22 09:47	03/17/22 15:56	1
Pentachlorophenol	1.0	U	10	0.52	ug/L		03/16/22 09:47	03/17/22 15:56	1
Phenol	0.61	U M Q	1.0	0.36	ug/L		03/16/22 09:47	03/17/22 15:56	1
Pyrene	0.091	U	1.0	0.040	ug/L		03/16/22 09:47	03/17/22 15:56	1
Pyridine	3.2	U Q	10	1.1	ug/L		03/16/22 09:47	03/17/22 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		43 - 140	03/16/22 09:47	03/17/22 15:56	1
2-Fluorobiphenyl	63		44 - 119	03/16/22 09:47	03/17/22 15:56	1
2-Fluorophenol (Surr)	48		19 - 119	03/16/22 09:47	03/17/22 15:56	1
Nitrobenzene-d5 (Surr)	70		44 - 120	03/16/22 09:47	03/17/22 15:56	1
Phenol-d5 (Surr)	28		10 - 120	03/16/22 09:47	03/17/22 15:56	1
Terphenyl-d14	102		50 - 134	03/16/22 09:47	03/17/22 15:56	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2764 (ADIT 3 SUMP)

Lab Sample ID: 580-111290-3

Date Collected: 03/09/22 11:45

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.033	U	0.10	0.019	ug/L		03/16/22 09:47	03/17/22 19:31	1
2-Methylnaphthalene	0.082	U	0.21	0.040	ug/L		03/16/22 09:47	03/17/22 19:31	1
Acenaphthene	0.033	U	0.10	0.014	ug/L		03/16/22 09:47	03/17/22 19:31	1
Acenaphthylene	0.033	U	0.051	0.0092	ug/L		03/16/22 09:47	03/17/22 19:31	1
Anthracene	0.082	U M	0.10	0.023	ug/L		03/16/22 09:47	03/17/22 19:31	1
Benzo[a]anthracene	0.033	U M	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 19:31	1
Benzo[a]pyrene	0.033	U M	0.10	0.011	ug/L		03/16/22 09:47	03/17/22 19:31	1
Benzo[b]fluoranthene	0.033	U M	0.051	0.011	ug/L		03/16/22 09:47	03/17/22 19:31	1
Benzo[g,h,i]perylene	0.033	U M	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 19:31	1
Benzo[k]fluoranthene	0.033	U M	0.051	0.012	ug/L		03/16/22 09:47	03/17/22 19:31	1
Chrysene	0.033	U M	0.10	0.016	ug/L		03/16/22 09:47	03/17/22 19:31	1
Dibenz(a,h)anthracene	0.033	U	0.10	0.027	ug/L		03/16/22 09:47	03/17/22 19:31	1
Fluoranthene	0.033	U M	0.21	0.018	ug/L		03/16/22 09:47	03/17/22 19:31	1
Fluorene	0.033	U	0.10	0.017	ug/L		03/16/22 09:47	03/17/22 19:31	1
Indeno[1,2,3-cd]pyrene	0.033	U M	0.051	0.014	ug/L		03/16/22 09:47	03/17/22 19:31	1
Naphthalene	0.082	U	0.10	0.032	ug/L		03/16/22 09:47	03/17/22 19:31	1
Phenanthrene	0.082	U M	0.10	0.032	ug/L		03/16/22 09:47	03/17/22 19:31	1
Pyrene	0.082	U M	0.10	0.034	ug/L		03/16/22 09:47	03/17/22 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	69		40 - 140	03/16/22 09:47	03/17/22 19:31	1
Fluoranthene-d10 (Surr)	77		40 - 140	03/16/22 09:47	03/17/22 19:31	1
Terphenyl-d14	83		58 - 132	03/16/22 09:47	03/17/22 19:31	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.31	U Q	0.41	0.092	ug/L		03/16/22 09:47	03/17/22 16:19	1
1,2-Dichlorobenzene	0.15	U	0.41	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
1,3-Dichlorobenzene	0.092	U Q	0.41	0.041	ug/L		03/16/22 09:47	03/17/22 16:19	1
1,4-Dichlorobenzene	0.092	U	0.41	0.041	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4,5-Trichlorophenol	0.31	U	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4,6-Trichlorophenol	0.31	U	0.62	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4-Dichlorophenol	0.51	U M	1.0	0.21	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4-Dimethylphenol	0.51	U M	4.1	0.16	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4-Dinitrophenol	3.3	U Q	5.1	1.6	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,4-Dinitrotoluene	0.31	U M	1.0	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
2,6-Dinitrotoluene	0.31	U	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
2-Chloronaphthalene	0.15	U	1.0	0.072	ug/L		03/16/22 09:47	03/17/22 16:19	1
2-Chlorophenol	0.15	U	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
2-Nitrophenol	0.15	U	1.0	0.072	ug/L		03/16/22 09:47	03/17/22 16:19	1
3,3'-Dichlorobenzidine	0.62	U M	1.0	0.27	ug/L		03/16/22 09:47	03/17/22 16:19	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.1	0.56	ug/L		03/16/22 09:47	03/17/22 16:19	1
4-Bromophenyl phenyl ether	0.15	U	0.62	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
4-Chloro-3-methylphenol	0.31	U M	0.62	0.13	ug/L		03/16/22 09:47	03/17/22 16:19	1
4-Chlorophenyl phenyl ether	0.15	U	0.62	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
4-Nitrophenol	6.2	U M	10	1.7	ug/L		03/16/22 09:47	03/17/22 16:19	1
Azobenzene	0.15	U	2.1	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
Bis(2-chloroethoxy)methane	0.15	U	0.62	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
Bis(2-chloroethyl)ether	0.092	U	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 16:19	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.1	0.76	ug/L		03/16/22 09:47	03/17/22 16:19	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2764 (ADIT 3 SUMP)

Lab Sample ID: 580-111290-3

Date Collected: 03/09/22 11:45

Matrix: Water

Date Received: 03/11/22 09:40

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.15	U	0.26	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
Butyl benzyl phthalate	0.62	U	4.1	0.28	ug/L		03/16/22 09:47	03/17/22 16:19	1
Diethyl phthalate	0.31	U	1.0	0.15	ug/L		03/16/22 09:47	03/17/22 16:19	1
Dimethyl phthalate	0.15	U	0.62	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
Di-n-butyl phthalate	0.51	U	3.1	0.19	ug/L		03/16/22 09:47	03/17/22 16:19	1
Di-n-octyl phthalate	0.31	U M	1.0	0.13	ug/L		03/16/22 09:47	03/17/22 16:19	1
Hexachlorobenzene	0.092	U	0.62	0.041	ug/L		03/16/22 09:47	03/17/22 16:19	1
Hexachlorobutadiene	0.15	U M Q	1.0	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
Hexachlorocyclopentadiene	0.31	U Q	1.0	0.14	ug/L		03/16/22 09:47	03/17/22 16:19	1
Hexachloroethane	0.15	U Q	1.0	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
Isophorone	0.31	U M	0.41	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
m+p-Cresol	0.31	U Q	0.62	0.10	ug/L		03/16/22 09:47	03/17/22 16:19	1
Nitrobenzene	0.092	U	1.0	0.041	ug/L		03/16/22 09:47	03/17/22 16:19	1
N-Nitrosodimethylamine	0.62	U	2.1	0.27	ug/L		03/16/22 09:47	03/17/22 16:19	1
N-Nitrosodi-n-propylamine	0.092	U	0.41	0.062	ug/L		03/16/22 09:47	03/17/22 16:19	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.072	ug/L		03/16/22 09:47	03/17/22 16:19	1
o-Cresol	0.15	U	0.62	0.051	ug/L		03/16/22 09:47	03/17/22 16:19	1
Pentachlorophenol	1.0	U	10	0.52	ug/L		03/16/22 09:47	03/17/22 16:19	1
Phenol	0.62	U M Q	1.0	0.37	ug/L		03/16/22 09:47	03/17/22 16:19	1
Pyrene	0.092	U	1.0	0.041	ug/L		03/16/22 09:47	03/17/22 16:19	1
Pyridine	3.3	U M Q	10	1.1	ug/L		03/16/22 09:47	03/17/22 16:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		43 - 140	03/16/22 09:47	03/17/22 16:19	1
2-Fluorobiphenyl	65		44 - 119	03/16/22 09:47	03/17/22 16:19	1
2-Fluorophenol (Surr)	45		19 - 119	03/16/22 09:47	03/17/22 16:19	1
Nitrobenzene-d5 (Surr)	70		44 - 120	03/16/22 09:47	03/17/22 16:19	1
Phenol-d5 (Surr)	28		10 - 120	03/16/22 09:47	03/17/22 16:19	1
Terphenyl-d14	99		50 - 134	03/16/22 09:47	03/17/22 16:19	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-383995/1-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383995

Analyte	MB	MB	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	0.30	U	0.40	0.090	ug/L		03/16/22 09:47	03/17/22 13:35	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/16/22 09:47	03/17/22 13:35	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L		03/16/22 09:47	03/17/22 13:35	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L		03/16/22 09:47	03/17/22 13:35	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/16/22 09:47	03/17/22 13:35	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L		03/16/22 09:47	03/17/22 13:35	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/16/22 09:47	03/17/22 13:35	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/16/22 09:47	03/17/22 13:35	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
Bis(2-chloroethyl)ether	0.090	U	0.10	0.030	ug/L		03/16/22 09:47	03/17/22 13:35	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/16/22 09:47	03/17/22 13:35	1
bis (2-chloroisopropyl) ether	0.15	U M	0.25	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/16/22 09:47	03/17/22 13:35	1
Diethyl phthalate	0.30	U M	1.0	0.15	ug/L		03/16/22 09:47	03/17/22 13:35	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/16/22 09:47	03/17/22 13:35	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/16/22 09:47	03/17/22 13:35	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/16/22 09:47	03/17/22 13:35	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L		03/16/22 09:47	03/17/22 13:35	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
Isophorone	0.30	U	0.40	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
m+p-Cresol	0.30	U M	0.60	0.10	ug/L		03/16/22 09:47	03/17/22 13:35	1
Nitrobenzene	0.090	U M	1.0	0.040	ug/L		03/16/22 09:47	03/17/22 13:35	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/16/22 09:47	03/17/22 13:35	1
N-Nitrosodi-n-propylamine	0.090	U	0.40	0.060	ug/L		03/16/22 09:47	03/17/22 13:35	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/16/22 09:47	03/17/22 13:35	1
o-Cresol	0.15	U M	0.60	0.050	ug/L		03/16/22 09:47	03/17/22 13:35	1
Pentachlorophenol	1.0	U	10	0.51	ug/L		03/16/22 09:47	03/17/22 13:35	1
Phenol	0.60	U	1.0	0.36	ug/L		03/16/22 09:47	03/17/22 13:35	1
Pyrene	0.090	U M	1.0	0.040	ug/L		03/16/22 09:47	03/17/22 13:35	1
Pyridine	3.2	U	10	1.1	ug/L		03/16/22 09:47	03/17/22 13:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	53		43 - 140	03/16/22 09:47	03/17/22 13:35	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-383995/1-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383995

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	72		44 - 119	03/16/22 09:47	03/17/22 13:35	1
2-Fluorophenol (Surr)	48		19 - 119	03/16/22 09:47	03/17/22 13:35	1
Nitrobenzene-d5 (Surr)	76		44 - 120	03/16/22 09:47	03/17/22 13:35	1
Phenol-d5 (Surr)	31		10 - 120	03/16/22 09:47	03/17/22 13:35	1
Terphenyl-d14	98		50 - 134	03/16/22 09:47	03/17/22 13:35	1

Lab Sample ID: LCS 580-383995/2-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
1,2-Dichlorobenzene	2.00	1.17		ug/L		58	32 - 111	
1,3-Dichlorobenzene	2.00	1.19		ug/L		59	28 - 110	
1,4-Dichlorobenzene	2.00	1.14		ug/L		57	29 - 112	
2,4,5-Trichlorophenol	2.00	1.55		ug/L		78	53 - 123	
2,4,6-Trichlorophenol	2.00	1.74		ug/L		87	50 - 125	
2,4-Dichlorophenol	2.00	1.69		ug/L		84	47 - 121	
2,4-Dimethylphenol	2.00	1.57	J	ug/L		79	31 - 124	
2,4-Dinitrophenol	4.00	3.20	J M	ug/L		80	23 - 143	
2,4-Dinitrotoluene	2.00	1.96		ug/L		98	57 - 128	
2,6-Dinitrotoluene	2.00	1.93		ug/L		97	57 - 124	
2-Chloronaphthalene	2.00	1.60		ug/L		80	40 - 116	
2-Chlorophenol	2.00	1.64		ug/L		82	38 - 117	
2-Nitrophenol	2.00	1.73		ug/L		87	47 - 123	
3,3'-Dichlorobenzidine	4.00	3.89		ug/L		97	27 - 129	
4,6-Dinitro-2-methylphenol	4.00	3.29		ug/L		82	44 - 137	
4-Bromophenyl phenyl ether	2.00	1.65		ug/L		82	55 - 124	
4-Chloro-3-methylphenol	2.00	1.73		ug/L		87	52 - 119	
4-Chlorophenyl phenyl ether	2.00	1.80		ug/L		90	53 - 121	
4-Nitrophenol	4.00	6.0	U	ug/L		41	35 - 145	
Azobenzene	2.00	1.68	J	ug/L		84	61 - 116	
Bis(2-chloroethoxy)methane	2.00	1.62		ug/L		81	48 - 120	
Bis(2-chloroethyl)ether	2.00	1.42		ug/L		71	43 - 118	
Bis(2-ethylhexyl) phthalate	2.00	2.49	J	ug/L		124	55 - 135	
bis (2-chloroisopropyl) ether	2.00	1.42		ug/L		71	37 - 130	
Butyl benzyl phthalate	2.00	2.06	J	ug/L		103	53 - 134	
Diethyl phthalate	2.00	1.99		ug/L		99	56 - 125	
Dimethyl phthalate	2.00	2.10		ug/L		105	45 - 127	
Di-n-butyl phthalate	2.00	1.83	J	ug/L		92	59 - 127	
Di-n-octyl phthalate	2.00	2.21		ug/L		111	51 - 140	
Hexachlorobenzene	2.00	1.56		ug/L		78	53 - 125	
Hexachlorobutadiene	2.00	0.997	J	ug/L		50	22 - 124	
Hexachlorocyclopentadiene	2.00	0.994	J	ug/L		50	20 - 125	
Hexachloroethane	2.00	1.04		ug/L		52	21 - 115	
Isophorone	2.00	1.64		ug/L		82	42 - 124	
m+p-Cresol	2.00	1.15		ug/L		57	29 - 110	
Nitrobenzene	2.00	1.56		ug/L		78	45 - 121	

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-383995/2-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	2.00	1.11	J	ug/L		56	45 - 125
N-Nitrosodi-n-propylamine	2.00	1.55		ug/L		77	49 - 119
N-Nitrosodiphenylamine	2.00	1.89		ug/L		95	51 - 123
o-Cresol	2.00	1.46		ug/L		73	30 - 117
Pentachlorophenol	4.00	1.55	J	ug/L		39	35 - 138
Phenol	2.00	0.826	J M	ug/L		41	13 - 120
Pyrene	2.00	1.65		ug/L		82	57 - 126
Pyridine	4.00	1.33	J	ug/L		33	20 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		43 - 140
2-Fluorobiphenyl	79		44 - 119
2-Fluorophenol (Surr)	50		19 - 119
Nitrobenzene-d5 (Surr)	81		44 - 120
Phenol-d5 (Surr)	32		10 - 120
Terphenyl-d14	96		50 - 134

Lab Sample ID: LCSD 580-383995/3-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	0.993	Q	ug/L		50	29 - 116	25	20
1,2-Dichlorobenzene	2.00	0.999		ug/L		50	32 - 111	15	20
1,3-Dichlorobenzene	2.00	0.933	Q	ug/L		47	28 - 110	24	20
1,4-Dichlorobenzene	2.00	0.926		ug/L		46	29 - 112	20	20
2,4,5-Trichlorophenol	2.00	1.59		ug/L		79	53 - 123	2	20
2,4,6-Trichlorophenol	2.00	1.56		ug/L		78	50 - 125	11	20
2,4-Dichlorophenol	2.00	1.64		ug/L		82	47 - 121	3	20
2,4-Dimethylphenol	2.00	1.57	J	ug/L		79	31 - 124	0	20
2,4-Dinitrophenol	4.00	3.28	J M	ug/L		82	23 - 143	2	20
2,4-Dinitrotoluene	2.00	1.81		ug/L		90	57 - 128	8	20
2,6-Dinitrotoluene	2.00	1.74		ug/L		87	57 - 124	11	20
2-Chloronaphthalene	2.00	1.43		ug/L		71	40 - 116	12	20
2-Chlorophenol	2.00	1.75		ug/L		88	38 - 117	6	20
2-Nitrophenol	2.00	1.67		ug/L		84	47 - 123	3	20
3,3'-Dichlorobenzidine	4.00	4.14		ug/L		103	27 - 129	6	20
4,6-Dinitro-2-methylphenol	4.00	3.50		ug/L		88	44 - 137	6	20
4-Bromophenyl phenyl ether	2.00	1.64		ug/L		82	55 - 124	1	20
4-Chloro-3-methylphenol	2.00	1.61		ug/L		81	52 - 119	7	20
4-Chlorophenyl phenyl ether	2.00	1.64		ug/L		82	53 - 121	9	20
4-Nitrophenol	4.00	6.0	U	ug/L		41	35 - 145	0	20
Azobenzene	2.00	1.69	J	ug/L		84	61 - 116	1	20
Bis(2-chloroethoxy)methane	2.00	1.65		ug/L		83	48 - 120	2	20
Bis(2-chloroethyl)ether	2.00	1.52		ug/L		76	43 - 118	7	20
Bis(2-ethylhexyl) phthalate	2.00	2.49	J	ug/L		125	55 - 135	0	20
bis (2-chloroisopropyl) ether	2.00	1.47		ug/L		73	37 - 130	3	20
Butyl benzyl phthalate	2.00	2.03	J	ug/L		101	53 - 134	2	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-383995/3-A
Matrix: Water
Analysis Batch: 384146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Diethyl phthalate	2.00	1.92		ug/L		96	56 - 125	3	20	
Dimethyl phthalate	2.00	1.96		ug/L		98	45 - 127	7	20	
Di-n-butyl phthalate	2.00	1.88	J	ug/L		94	59 - 127	3	20	
Di-n-octyl phthalate	2.00	2.16		ug/L		108	51 - 140	3	20	
Hexachlorobenzene	2.00	1.64		ug/L		82	53 - 125	5	20	
Hexachlorobutadiene	2.00	0.666	J Q	ug/L		33	22 - 124	40	20	
Hexachlorocyclopentadiene	2.00	0.706	J Q	ug/L		35	20 - 125	34	20	
Hexachloroethane	2.00	0.752	J Q	ug/L		38	21 - 115	33	20	
Isophorone	2.00	1.63		ug/L		82	42 - 124	1	20	
m+p-Cresol	2.00	1.44	Q	ug/L		72	29 - 110	22	20	
Nitrobenzene	2.00	1.64		ug/L		82	45 - 121	5	20	
N-Nitrosodimethylamine	2.00	1.06	J	ug/L		53	45 - 125	5	20	
N-Nitrosodi-n-propylamine	2.00	1.58		ug/L		79	49 - 119	2	20	
N-Nitrosodiphenylamine	2.00	1.96		ug/L		98	51 - 123	3	20	
o-Cresol	2.00	1.59		ug/L		80	30 - 117	9	20	
Pentachlorophenol	4.00	1.83	J	ug/L		46	35 - 138	17	20	
Phenol	2.00	0.664	J Q	ug/L		33	13 - 120	22	20	
Pyrene	2.00	1.66		ug/L		83	57 - 126	1	20	
Pyridine	4.00	1.78	J Q	ug/L		44	20 - 125	29	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	87		43 - 140
2-Fluorobiphenyl	73		44 - 119
2-Fluorophenol (Surr)	51		19 - 119
Nitrobenzene-d5 (Surr)	77		44 - 120
Phenol-d5 (Surr)	41	M	10 - 120
Terphenyl-d14	103		50 - 134

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-383995/1-A
Matrix: Water
Analysis Batch: 384248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383995

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	0.032	U M	0.10	0.019	ug/L		03/16/22 09:47	03/17/22 17:55	1
2-Methylnaphthalene	0.080	U M	0.20	0.039	ug/L		03/16/22 09:47	03/17/22 17:55	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/16/22 09:47	03/17/22 17:55	1
Acenaphthylene	0.032	U M	0.050	0.0090	ug/L		03/16/22 09:47	03/17/22 17:55	1
Anthracene	0.080	U M	0.10	0.022	ug/L		03/16/22 09:47	03/17/22 17:55	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/16/22 09:47	03/17/22 17:55	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/16/22 09:47	03/17/22 17:55	1
Benzo[b]fluoranthene	0.032	U M	0.050	0.011	ug/L		03/16/22 09:47	03/17/22 17:55	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/16/22 09:47	03/17/22 17:55	1
Benzo[k]fluoranthene	0.032	U M	0.050	0.012	ug/L		03/16/22 09:47	03/17/22 17:55	1
Chrysene	0.0179	J M	0.10	0.016	ug/L		03/16/22 09:47	03/17/22 17:55	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/16/22 09:47	03/17/22 17:55	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/16/22 09:47	03/17/22 17:55	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/16/22 09:47	03/17/22 17:55	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 580-383995/1-A
Matrix: Water
Analysis Batch: 384248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383995

Analyte	MB MB		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/16/22 09:47	03/17/22 17:55	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 17:55	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/16/22 09:47	03/17/22 17:55	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/16/22 09:47	03/17/22 17:55	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-methylnaphthalene-d10	61		40 - 140	03/16/22 09:47	03/17/22 17:55	1
Fluoranthene-d10 (Surr)	78		40 - 140	03/16/22 09:47	03/17/22 17:55	1
Terphenyl-d14	85		58 - 132	03/16/22 09:47	03/17/22 17:55	1

Lab Sample ID: LCS 580-383995/2-A
Matrix: Water
Analysis Batch: 384248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
1-Methylnaphthalene	2.00	1.42		ug/L		71	41 - 115	
2-Methylnaphthalene	2.00	1.35		ug/L		67	39 - 114	
Acenaphthene	2.00	1.55		ug/L		77	48 - 114	
Acenaphthylene	2.00	1.47		ug/L		74	35 - 121	
Anthracene	2.00	1.61		ug/L		81	53 - 119	
Benzo[a]anthracene	2.00	1.67		ug/L		84	59 - 120	
Benzo[a]pyrene	2.00	1.62		ug/L		81	53 - 120	
Benzo[b]fluoranthene	2.00	1.76		ug/L		88	53 - 126	
Benzo[g,h,i]perylene	2.00	1.85		ug/L		93	44 - 128	
Benzo[k]fluoranthene	2.00	1.74		ug/L		87	54 - 125	
Chrysene	2.00	1.62		ug/L		81	57 - 120	
Dibenz(a,h)anthracene	2.00	1.82	M	ug/L		91	44 - 131	
Fluoranthene	2.00	1.66		ug/L		83	58 - 120	
Fluorene	2.00	1.64		ug/L		82	50 - 118	
Indeno[1,2,3-cd]pyrene	2.00	1.79	M	ug/L		90	48 - 130	
Naphthalene	2.00	1.41		ug/L		70	43 - 114	
Phenanthrene	2.00	1.65		ug/L		83	53 - 115	
Pyrene	2.00	1.63		ug/L		81	53 - 121	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	70		40 - 140
Fluoranthene-d10 (Surr)	82		40 - 140
Terphenyl-d14	89		58 - 132

Lab Sample ID: LCSD 580-383995/3-A
Matrix: Water
Analysis Batch: 384248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
		Result	Qualifier							
1-Methylnaphthalene	2.00	1.31		ug/L		65	41 - 115	8	20	
2-Methylnaphthalene	2.00	1.24		ug/L		62	39 - 114	8	20	
Acenaphthene	2.00	1.52		ug/L		76	48 - 114	2	20	
Acenaphthylene	2.00	1.46		ug/L		73	35 - 121	0	20	

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QC Sample Results

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-383995/3-A
Matrix: Water
Analysis Batch: 384248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	2.00	1.60		ug/L		80	53 - 119	1	20
Benzo[a]anthracene	2.00	1.69		ug/L		84	59 - 120	1	20
Benzo[a]pyrene	2.00	1.60		ug/L		80	53 - 120	1	20
Benzo[b]fluoranthene	2.00	1.68		ug/L		84	53 - 126	5	20
Benzo[g,h,i]perylene	2.00	1.85		ug/L		93	44 - 128	0	20
Benzo[k]fluoranthene	2.00	1.77		ug/L		89	54 - 125	2	20
Chrysene	2.00	1.63		ug/L		82	57 - 120	1	20
Dibenz(a,h)anthracene	2.00	1.82	M	ug/L		91	44 - 131	0	20
Fluoranthene	2.00	1.65		ug/L		82	58 - 120	0	20
Fluorene	2.00	1.60		ug/L		80	50 - 118	2	20
Indeno[1,2,3-cd]pyrene	2.00	1.75	M	ug/L		87	48 - 130	3	20
Naphthalene	2.00	1.33		ug/L		66	43 - 114	6	20
Phenanthrene	2.00	1.63		ug/L		81	53 - 115	1	20
Pyrene	2.00	1.61		ug/L		81	53 - 121	1	20
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
2-methylnaphthalene-d10	67		40 - 140						
Fluoranthene-d10 (Surr)	81		40 - 140						
Terphenyl-d14	89		58 - 132						

Lab Chronicle

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Client Sample ID: ERH2686 (RHMW2254-01, Bailer)
Date Collected: 03/09/22 13:20
Date Received: 03/11/22 09:40

Lab Sample ID: 580-111290-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E		1	384146	03/17/22 15:32	E1L	FGS SEA
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E SIM		1	384248	03/17/22 18:53	W1T	FGS SEA

Client Sample ID: ERH2689 (RHMW2254-01, Low Flow)
Date Collected: 03/09/22 13:15
Date Received: 03/11/22 09:40

Lab Sample ID: 580-111290-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E		1	384146	03/17/22 15:56	E1L	FGS SEA
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E SIM		1	384248	03/17/22 19:12	W1T	FGS SEA

Client Sample ID: ERH2764 (ADIT 3 SUMP)
Date Collected: 03/09/22 11:45
Date Received: 03/11/22 09:40

Lab Sample ID: 580-111290-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E		1	384146	03/17/22 16:19	E1L	FGS SEA
Total/NA	Prep	3510C			383995	03/16/22 09:47	ASL	FGS SEA
Total/NA	Analysis	8270E SIM		1	384248	03/17/22 19:31	W1T	FGS SEA

Laboratory References:

FGS SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2236	01-19-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Sample Summary

Client: AECOM
Project/Site: Red Hill NOI GW

Job ID: 580-111290-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-111290-1	ERH2686 (RHMW2254-01, Bailer)	Water	03/09/22 13:20	03/11/22 09:40
580-111290-2	ERH2689 (RHMW2254-01, Low Flow)	Water	03/09/22 13:15	03/11/22 09:40
580-111290-3	ERH2764 (ADIT 3 SUMP)	Water	03/09/22 11:45	03/11/22 09:40

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



580-111290 Chain of Custody

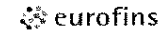
Chain of Custody Record

Client Contact: Alethea Ramos (alternate: Margie Pascua)		Sampler: Matt Yuen		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: EURO202203-22NOI	
Company: AECOM		Phone: 808.349.4738		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested		Preservation Codes:		Job #:	
City: Honolulu		TAT Requested (days): Rush - ASAP		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> SVOCs (full suite) by 8270D (Nap, 1,2-methylnap, PAH) by 8270DSIM <input type="checkbox"/>		A - HCL		M - Hexane	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				B - NaOH		N - None	
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)		PO #:				C - Zn Acetate		O - AsNaO2	
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)		WO #:				D - Nitric Acid		P - Na2O4S	
Project Name: CV18F0126		Project #: 60571032				E - NaHSO4		Q - Na2SO3	
Site: RH		SSOW#:		F - MeOH		R - Na2S2O3		Other:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Total Number of containers		Special Instructions/Note:	
ERH2686 (RHMW2254-01, Bailer)		3/10/22	1320	G	W	N	x	MN 3/10/22	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				Special Instructions/QC Requirements: DOD QSM project.			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				Prelim data (Level 1 or 2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQULS EDD.			
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Margie Nutter		Date/Time: 3/10/22 0930		Company: AECOM		Received by: Tom Blank		Date/Time: 3/11/22 0940	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: FedEx Lab/ wet/bub A2-07/0.0					

Eurofins FGS, Seattle

5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: <i>Gravin Merca</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: EURO202203-23NOI						
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <i>808.987.9301</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1						
Company: AECOM		PWSID:		Analysis Requested				Job #:						
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract												
City: Honolulu		TAT Requested (days): Rush - ASAP		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> SVOCs (full suite) by 8270D (Nap. 1-2-Matthynap, PAH) by 8270DSIM <input type="checkbox"/>				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:						
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No												
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)		PO #:												
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)		WO #:												
Project Name: CV18F0126		Project #: 60571032												
Site: RH		SSOW#:		Total Number of Containers: 2 MN 3/10/22				Special Instructions/Note:						
Sample Identification		Sample Date	Sample Time							Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOCs (full suite) by 8270D (Nap. 1-2-Matthynap, PAH) by 8270DSIM
ERH2689 (RHMW2254-01, Low Flow)		<i>3/9/22</i>	<i>1315</i>							G	W	N	x	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Deliverable Requested: I, II, III, IV, Other (specify)				Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT AECOM EQUIS EDD.		Special Instructions/QC Requirements: DOD QSM project.								
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:								
Relinquished by: <i>Maggie Nutter</i>		Date/Time: <i>3/10/22 0930</i>		Company: AECOM		Received by: <i>Tom Bantayo</i>		Date/Time: <i>3/11/22 0940</i>						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:						
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2g Blu/wat / 606 A2 - 0.7/0.0 w/cs</i>										

Chain of Custody Record

Client Information		Sampler: <i>Kevin Lee</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: EURO202203-41NOI						
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <i>808.636.3319</i>	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1						
Company: AECOM		PWSID:	Analysis Requested			Job #:					
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract	MN 3/10/22 			Total Number of containers					
City: Honolulu		TAT Requested (days): Rush - ASAP									
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)		PO #:									
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)		WO #:									
Project Name: CV18F0126		Project #: 60571032									
Site: RH		SSOW#:				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOCs (full suite) by 8270D (Nap. 1-2-Methylnap. PAH) by 8270DSIM	Special Instructions/Note:		
ERH2764 (ADIT 3 SUMP)		<i>3/9/22</i>	<i>1145</i>	G	W	N	x				
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.	Special Instructions/QC Requirements: DOD QSM project.	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months				
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:							
Relinquished by: <i>Maggie Nutter</i>		Date/Time: <i>3/10/22 1000</i>	Company: AECOM	Received by: <i>Tom Starko</i>	Date/Time: <i>3/11/22 0940</i>	Company:					
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:					
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>FedEx kg Blk/wet/bub</i>	A2 - 0.70.04/CS							

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-111290-1

Login Number: 111290

List Source: Eurofins Seattle

List Number: 1

Creator: Greene, Ashton R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	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	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	