

ANALYTICAL REPORT

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Laboratory Job ID: 580-111032-1
Client Project/Site: Red Hill GW CV18F0126

For:
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Authorized for release by:
3/15/2022 5:30:44 PM

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



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Case Narrative

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill GW CV18F0126

Report Number: 580-111032-1

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

Nine samples were received on 3/4/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7° C, 4.9° C and 5.6° C.

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 ERH2663 (OWDFMW05A) (580-111032-1), ERH2675 (OWDFMW05A FD) (580-111032-2), ERH2659 (RHMW05) (580-111032-3), ERH2662 (RHMW13-5) (580-111032-4), ERH2660 (RHMW01R) (580-111032-5), ERH2661 (RHMW01R FD) (580-111032-6), ERH2664 (OWDFMW04A) (580-111032-7), ERH2677 (OWDFMW04A) (580-111032-8) and ERH2667 (Sump Adit3) (580-111032-9) were analyzed for semivolatile organic compounds (GC-MS) in accordance with 8270E. The samples were prepared on 03/09/2022 and analyzed on 03/10/2022.

The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-383442 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(s) is considered estimated.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-383282 and analytical batch 580-383442 recovered outside control limits for the following analytes: Phenol, Pentachlorophenol, 2,4-Dimethylphenol, Hexachloroethane, 1,2-Dichlorobenzene, Nitrobenzene, 2-Chloronaphthalene, Bis(2-chloroethyl)ether, 2,4,6-Trichlorophenol, 1,2,4-Trichlorobenzene, Isophorone, 1,3-Dichlorobenzene, N-Nitrosodi-n-propylamine, 2-Methylphenol, 2,4-Dichlorophenol, Hexachlorocyclopentadiene, 2-Chlorophenol, Bis(2-chloroethoxy)methane, Bis(2-chloroisopropyl)ether, 1,4-Dichlorobenzene, Hexachlorobutadiene, 3 & 4 Methylphenol and 2-Nitrophenol.

The following analytes have been identified in the reference method and/or via historical data to be poor and/or erratic performers and

Case Narrative

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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Laboratory: Eurofins Seattle (Continued)

have been flagged in the associated samples: 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol.

Several analytes exceeded the RPD limit for the MSD of sample ERH2659 (RHMW05) MSD (580-111032-3) in batch 580-383442. Sample matrix interference and/or non-homogeneity are suspected.

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 ERH2663 (OWDFMW05A) (580-111032-1), ERH2675 (OWDFMW05A FD) (580-111032-2), ERH2659 (RHMW05) (580-111032-3), ERH2662 (RHMW13-5) (580-111032-4), ERH2660 (RHMW01R) (580-111032-5), ERH2661 (RHMW01R FD) (580-111032-6), ERH2664 (OWDFMW04A) (580-111032-7), ERH2677 (OWDFMW04A) (580-111032-8) and ERH2667 (Sump Adit3) (580-111032-9) were analyzed for semivolatile organic compounds (GC-MS SIM) in accordance with 8270E SIM. The samples were prepared on 03/09/2022 and analyzed on 03/10/2022.

Surrogate recovery for the following sample was outside control limits: ERH2659 (RHMW05) (580-111032-3[MS]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-383282 and analytical batch 580-383445 recovered outside control limits for the following analytes: Naphthalene, Acenaphthene, 2-Methylnaphthalene, 1-Methylnaphthalene and Acenaphthylene.

Several analytes exceeded the RPD limit for the MSD of sample ERH2659 (RHMW05) MSD (580-111032-3) in batch 580-383445. Sample matrix interference and/or non-homogeneity are suspected.

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 GW CV18F0126

Job ID: 580-111032-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
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
CFL	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 GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2663 (OWDFMW05A)

Lab Sample ID: 580-111032-1

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.10	0.019	ug/L		03/09/22 09:28	03/10/22 13:02	1
2-Methylnaphthalene	0.080	U M Q	0.20	0.039	ug/L		03/09/22 09:28	03/10/22 13:02	1
Acenaphthene	0.032	U Q	0.10	0.014	ug/L		03/09/22 09:28	03/10/22 13:02	1
Acenaphthylene	0.032	U Q	0.050	0.0090	ug/L		03/09/22 09:28	03/10/22 13:02	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/09/22 09:28	03/10/22 13:02	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 13:02	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/09/22 09:28	03/10/22 13:02	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/09/22 09:28	03/10/22 13:02	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 13:02	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 13:02	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:28	03/10/22 13:02	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:28	03/10/22 13:02	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/09/22 09:28	03/10/22 13:02	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/09/22 09:28	03/10/22 13:02	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 13:02	1
Naphthalene	0.080	U M Q	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 13:02	1
Phenanthrene	0.080	U	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 13:02	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/09/22 09:28	03/10/22 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	52		40 - 140	03/09/22 09:28	03/10/22 13:02	1
Fluoranthene-d10 (Surr)	92		40 - 140	03/09/22 09:28	03/10/22 13:02	1
Terphenyl-d14	101		58 - 132	03/09/22 09:28	03/10/22 13:02	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	0.090	ug/L		03/09/22 09:28	03/10/22 14:34	1
1,2-Dichlorobenzene	0.15	U Q	0.40	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
1,3-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 14:34	1
1,4-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4,6-Trichlorophenol	0.30	U Q	0.60	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4-Dichlorophenol	0.50	U Q	1.0	0.20	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4-Dimethylphenol	0.50	U M Q	4.0	0.16	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
2,6-Dinitrotoluene	0.22	J	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
2-Chloronaphthalene	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 14:34	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
2-Nitrophenol	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 14:34	1
3,3'-Dichlorobenzidine	0.60	U M	1.0	0.26	ug/L		03/09/22 09:28	03/10/22 14:34	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/09/22 09:28	03/10/22 14:34	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/09/22 09:28	03/10/22 14:34	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/09/22 09:28	03/10/22 14:34	1
Azobenzene	0.15	U	2.0	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
Bis(2-chloroethoxy)methane	0.15	U M Q	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
Bis(2-chloroethyl)ether	0.090	U M Q	0.10	0.030	ug/L		03/09/22 09:28	03/10/22 14:34	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/09/22 09:28	03/10/22 14:34	1

Eurofins Seattle

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2663 (OWDFMW05A)

Lab Sample ID: 580-111032-1

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.25	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
Butyl benzyl phthalate	1.5	J	4.0	0.27	ug/L		03/09/22 09:28	03/10/22 14:34	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/09/22 09:28	03/10/22 14:34	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/09/22 09:28	03/10/22 14:34	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/09/22 09:28	03/10/22 14:34	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/09/22 09:28	03/10/22 14:34	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/09/22 09:28	03/10/22 14:34	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
Isophorone	0.30	U M Q	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
m+p-Cresol	0.30	U M Q	0.60	0.10	ug/L		03/09/22 09:28	03/10/22 14:34	1
Nitrobenzene	0.090	U Q	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 14:34	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/09/22 09:28	03/10/22 14:34	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/09/22 09:28	03/10/22 14:34	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 14:34	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 14:34	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/09/22 09:28	03/10/22 14:34	1
Phenol	0.60	U Q	1.0	0.36	ug/L		03/09/22 09:28	03/10/22 14:34	1
Pyrene	0.090	U M	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 14:34	1
Pyridine	3.2	U	10	1.0	ug/L		03/09/22 09:28	03/10/22 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		43 - 140	03/09/22 09:28	03/10/22 14:34	1
2-Fluorobiphenyl	64		44 - 119	03/09/22 09:28	03/10/22 14:34	1
2-Fluorophenol (Surr)	44		19 - 119	03/09/22 09:28	03/10/22 14:34	1
Nitrobenzene-d5 (Surr)	64		44 - 120	03/09/22 09:28	03/10/22 14:34	1
Phenol-d5 (Surr)	28		10 - 120	03/09/22 09:28	03/10/22 14:34	1
Terphenyl-d14	96		50 - 134	03/09/22 09:28	03/10/22 14:34	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2675 (OWDFMW05A FD)

Lab Sample ID: 580-111032-2

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.030	U Q	0.095	0.018	ug/L		03/09/22 09:28	03/10/22 13:21	1
2-Methylnaphthalene	0.076	U Q	0.19	0.037	ug/L		03/09/22 09:28	03/10/22 13:21	1
Acenaphthene	0.030	U Q	0.095	0.013	ug/L		03/09/22 09:28	03/10/22 13:21	1
Acenaphthylene	0.030	U Q	0.048	0.0086	ug/L		03/09/22 09:28	03/10/22 13:21	1
Anthracene	0.076	U	0.095	0.021	ug/L		03/09/22 09:28	03/10/22 13:21	1
Benzo[a]anthracene	0.030	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 13:21	1
Benzo[a]pyrene	0.030	U	0.095	0.010	ug/L		03/09/22 09:28	03/10/22 13:21	1
Benzo[b]fluoranthene	0.030	U	0.048	0.010	ug/L		03/09/22 09:28	03/10/22 13:21	1
Benzo[g,h,i]perylene	0.030	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 13:21	1
Benzo[k]fluoranthene	0.030	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 13:21	1
Chrysene	0.030	U	0.095	0.015	ug/L		03/09/22 09:28	03/10/22 13:21	1
Dibenz(a,h)anthracene	0.030	U	0.095	0.025	ug/L		03/09/22 09:28	03/10/22 13:21	1
Fluoranthene	0.030	U	0.19	0.017	ug/L		03/09/22 09:28	03/10/22 13:21	1
Fluorene	0.030	U	0.095	0.016	ug/L		03/09/22 09:28	03/10/22 13:21	1
Indeno[1,2,3-cd]pyrene	0.030	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 13:21	1
Naphthalene	0.076	U M Q	0.095	0.029	ug/L		03/09/22 09:28	03/10/22 13:21	1
Phenanthrene	0.076	U M	0.095	0.029	ug/L		03/09/22 09:28	03/10/22 13:21	1
Pyrene	0.076	U M	0.095	0.031	ug/L		03/09/22 09:28	03/10/22 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	49		40 - 140	03/09/22 09:28	03/10/22 13:21	1
Fluoranthene-d10 (Surr)	97		40 - 140	03/09/22 09:28	03/10/22 13:21	1
Terphenyl-d14	107		58 - 132	03/09/22 09:28	03/10/22 13:21	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U Q	0.38	0.086	ug/L		03/09/22 09:28	03/10/22 14:57	1
1,2-Dichlorobenzene	0.14	U Q	0.38	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
1,3-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 14:57	1
1,4-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4,5-Trichlorophenol	0.29	U	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4,6-Trichlorophenol	0.29	U Q	0.57	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4-Dichlorophenol	0.48	U Q	0.95	0.19	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4-Dimethylphenol	0.48	U Q	3.8	0.15	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4-Dinitrophenol	3.0	U Q	4.8	1.5	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,4-Dinitrotoluene	0.29	U	0.95	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
2,6-Dinitrotoluene	0.21	J	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
2-Chloronaphthalene	0.14	U Q	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 14:57	1
2-Chlorophenol	0.14	U Q	0.95	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
2-Nitrophenol	0.14	U Q	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 14:57	1
3,3'-Dichlorobenzidine	0.57	U M	0.95	0.25	ug/L		03/09/22 09:28	03/10/22 14:57	1
4,6-Dinitro-2-methylphenol	1.1	U Q	1.9	0.52	ug/L		03/09/22 09:28	03/10/22 14:57	1
4-Bromophenyl phenyl ether	0.14	U	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
4-Chloro-3-methylphenol	0.29	U	0.57	0.12	ug/L		03/09/22 09:28	03/10/22 14:57	1
4-Chlorophenyl phenyl ether	0.14	U	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
4-Nitrophenol	5.7	U	9.5	1.6	ug/L		03/09/22 09:28	03/10/22 14:57	1
Azobenzene	0.14	U	1.9	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
Bis(2-chloroethoxy)methane	0.14	U Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
Bis(2-chloroethyl)ether	0.086	U Q	0.095	0.029	ug/L		03/09/22 09:28	03/10/22 14:57	1
Bis(2-ethylhexyl) phthalate	1.5	U	2.9	0.70	ug/L		03/09/22 09:28	03/10/22 14:57	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2675 (OWDFMW05A FD)

Lab Sample ID: 580-111032-2

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.14	U Q	0.24	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
Butyl benzyl phthalate	0.57	U	3.8	0.26	ug/L		03/09/22 09:28	03/10/22 14:57	1
Diethyl phthalate	0.29	U	0.95	0.14	ug/L		03/09/22 09:28	03/10/22 14:57	1
Dimethyl phthalate	0.14	U	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
Di-n-butyl phthalate	0.48	U	2.9	0.18	ug/L		03/09/22 09:28	03/10/22 14:57	1
Di-n-octyl phthalate	0.29	U M	0.95	0.12	ug/L		03/09/22 09:28	03/10/22 14:57	1
Hexachlorobenzene	0.086	U	0.57	0.038	ug/L		03/09/22 09:28	03/10/22 14:57	1
Hexachlorobutadiene	0.14	U Q	0.95	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
Hexachlorocyclopentadiene	0.29	U Q	0.95	0.13	ug/L		03/09/22 09:28	03/10/22 14:57	1
Hexachloroethane	0.14	U Q	0.95	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
Isophorone	0.29	U Q	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
m+p-Cresol	0.29	U Q	0.57	0.095	ug/L		03/09/22 09:28	03/10/22 14:57	1
Nitrobenzene	0.086	U Q	0.95	0.038	ug/L		03/09/22 09:28	03/10/22 14:57	1
N-Nitrosodimethylamine	0.57	U	1.9	0.25	ug/L		03/09/22 09:28	03/10/22 14:57	1
N-Nitrosodi-n-propylamine	0.086	U Q	0.38	0.057	ug/L		03/09/22 09:28	03/10/22 14:57	1
N-Nitrosodiphenylamine	0.14	U M	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 14:57	1
o-Cresol	0.14	U Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 14:57	1
Pentachlorophenol	0.95	U Q	9.5	0.48	ug/L		03/09/22 09:28	03/10/22 14:57	1
Phenol	0.57	U Q	0.95	0.34	ug/L		03/09/22 09:28	03/10/22 14:57	1
Pyrene	0.086	U M	0.95	0.038	ug/L		03/09/22 09:28	03/10/22 14:57	1
Pyridine	3.0	U	9.5	1.0	ug/L		03/09/22 09:28	03/10/22 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		43 - 140	03/09/22 09:28	03/10/22 14:57	1
2-Fluorobiphenyl	59		44 - 119	03/09/22 09:28	03/10/22 14:57	1
2-Fluorophenol (Surr)	39		19 - 119	03/09/22 09:28	03/10/22 14:57	1
Nitrobenzene-d5 (Surr)	62		44 - 120	03/09/22 09:28	03/10/22 14:57	1
Phenol-d5 (Surr)	22		10 - 120	03/09/22 09:28	03/10/22 14:57	1
Terphenyl-d14	97		50 - 134	03/09/22 09:28	03/10/22 14:57	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2659 (RHMW05)

Lab Sample ID: 580-111032-3

Date Collected: 03/02/22 10:00

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.031	U M Q	0.097	0.018	ug/L		03/09/22 09:28	03/10/22 13:40	1
2-Methylnaphthalene	0.077	U M Q J1	0.19	0.038	ug/L		03/09/22 09:28	03/10/22 13:40	1
Acenaphthene	0.031	U Q J1	0.097	0.014	ug/L		03/09/22 09:28	03/10/22 13:40	1
Acenaphthylene	0.031	U Q J1	0.048	0.0087	ug/L		03/09/22 09:28	03/10/22 13:40	1
Anthracene	0.077	U M	0.097	0.021	ug/L		03/09/22 09:28	03/10/22 13:40	1
Benzo[a]anthracene	0.031	U M	0.048	0.014	ug/L		03/09/22 09:28	03/10/22 13:40	1
Benzo[a]pyrene	0.031	U	0.097	0.011	ug/L		03/09/22 09:28	03/10/22 13:40	1
Benzo[b]fluoranthene	0.031	U J1	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 13:40	1
Benzo[g,h,i]perylene	0.031	U	0.048	0.012	ug/L		03/09/22 09:28	03/10/22 13:40	1
Benzo[k]fluoranthene	0.031	U	0.048	0.012	ug/L		03/09/22 09:28	03/10/22 13:40	1
Chrysene	0.031	U	0.097	0.015	ug/L		03/09/22 09:28	03/10/22 13:40	1
Dibenz(a,h)anthracene	0.031	U	0.097	0.025	ug/L		03/09/22 09:28	03/10/22 13:40	1
Fluoranthene	0.031	U M	0.19	0.017	ug/L		03/09/22 09:28	03/10/22 13:40	1
Fluorene	0.031	U M	0.097	0.016	ug/L		03/09/22 09:28	03/10/22 13:40	1
Indeno[1,2,3-cd]pyrene	0.031	U J1	0.048	0.014	ug/L		03/09/22 09:28	03/10/22 13:40	1
Naphthalene	0.077	U M Q J1	0.097	0.030	ug/L		03/09/22 09:28	03/10/22 13:40	1
Phenanthrene	0.077	U M	0.097	0.030	ug/L		03/09/22 09:28	03/10/22 13:40	1
Pyrene	0.077	U M	0.097	0.032	ug/L		03/09/22 09:28	03/10/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	41		40 - 140	03/09/22 09:28	03/10/22 13:40	1
Fluoranthene-d10 (Surr)	83		40 - 140	03/09/22 09:28	03/10/22 13:40	1
Terphenyl-d14	91		58 - 132	03/09/22 09:28	03/10/22 13:40	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U J1 Q	0.39	0.087	ug/L		03/09/22 09:28	03/10/22 15:20	1
1,2-Dichlorobenzene	0.15	U J1 Q	0.39	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
1,3-Dichlorobenzene	0.087	U J1 Q	0.39	0.039	ug/L		03/09/22 09:28	03/10/22 15:20	1
1,4-Dichlorobenzene	0.087	U J1 Q	0.39	0.039	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4,5-Trichlorophenol	0.29	U	0.39	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4,6-Trichlorophenol	0.29	U Q	0.58	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4-Dichlorophenol	0.48	U J1 Q	0.97	0.19	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4-Dimethylphenol	0.48	U M Q	3.9	0.15	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4-Dinitrophenol	3.1	U Q	4.8	1.5	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,4-Dinitrotoluene	0.29	U	0.97	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
2,6-Dinitrotoluene	0.29	U	0.39	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
2-Chloronaphthalene	0.15	U J1 Q	0.97	0.068	ug/L		03/09/22 09:28	03/10/22 15:20	1
2-Chlorophenol	0.15	U Q	0.97	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
2-Nitrophenol	0.15	U J1 Q	0.97	0.068	ug/L		03/09/22 09:28	03/10/22 15:20	1
3,3'-Dichlorobenzidine	0.58	U	0.97	0.25	ug/L		03/09/22 09:28	03/10/22 15:20	1
4,6-Dinitro-2-methylphenol	1.2	U Q	1.9	0.53	ug/L		03/09/22 09:28	03/10/22 15:20	1
4-Bromophenyl phenyl ether	0.15	U	0.58	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
4-Chloro-3-methylphenol	0.29	U J1	0.58	0.13	ug/L		03/09/22 09:28	03/10/22 15:20	1
4-Chlorophenyl phenyl ether	0.15	U	0.58	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
4-Nitrophenol	5.8	U J1	9.7	1.6	ug/L		03/09/22 09:28	03/10/22 15:20	1
Azobenzene	0.15	U M J1	1.9	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
Bis(2-chloroethoxy)methane	0.15	U J1 Q	0.58	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
Bis(2-chloroethyl)ether	0.087	U J1 Q	0.097	0.029	ug/L		03/09/22 09:28	03/10/22 15:20	1
Bis(2-ethylhexyl) phthalate	1.5	U	2.9	0.72	ug/L		03/09/22 09:28	03/10/22 15:20	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2659 (RHMW05)

Lab Sample ID: 580-111032-3

Date Collected: 03/02/22 10:00

Matrix: Water

Date Received: 03/04/22 09:35

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 J1 Q	0.24	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
Butyl benzyl phthalate	0.58	U	3.9	0.26	ug/L		03/09/22 09:28	03/10/22 15:20	1
Diethyl phthalate	0.29	U	0.97	0.15	ug/L		03/09/22 09:28	03/10/22 15:20	1
Dimethyl phthalate	0.15	U J1	0.58	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
Di-n-butyl phthalate	0.48	U	2.9	0.18	ug/L		03/09/22 09:28	03/10/22 15:20	1
Di-n-octyl phthalate	0.29	U M	0.97	0.13	ug/L		03/09/22 09:28	03/10/22 15:20	1
Hexachlorobenzene	0.087	U	0.58	0.039	ug/L		03/09/22 09:28	03/10/22 15:20	1
Hexachlorobutadiene	0.15	U J1 Q	0.97	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
Hexachlorocyclopentadiene	0.29	U J1 Q	0.97	0.14	ug/L		03/09/22 09:28	03/10/22 15:20	1
Hexachloroethane	0.15	U J1 Q	0.97	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
Isophorone	0.29	U J1 Q	0.39	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
m+p-Cresol	0.29	U M Q	0.58	0.097	ug/L		03/09/22 09:28	03/10/22 15:20	1
Nitrobenzene	0.087	U Q	0.97	0.039	ug/L		03/09/22 09:28	03/10/22 15:20	1
N-Nitrosodimethylamine	0.58	U	1.9	0.25	ug/L		03/09/22 09:28	03/10/22 15:20	1
N-Nitrosodi-n-propylamine	0.087	U J1 Q	0.39	0.058	ug/L		03/09/22 09:28	03/10/22 15:20	1
N-Nitrosodiphenylamine	0.15	U	0.97	0.068	ug/L		03/09/22 09:28	03/10/22 15:20	1
o-Cresol	0.15	U M Q	0.58	0.048	ug/L		03/09/22 09:28	03/10/22 15:20	1
Pentachlorophenol	0.97	U Q	9.7	0.49	ug/L		03/09/22 09:28	03/10/22 15:20	1
Phenol	0.58	U Q	0.97	0.35	ug/L		03/09/22 09:28	03/10/22 15:20	1
Pyrene	0.087	U M	0.97	0.039	ug/L		03/09/22 09:28	03/10/22 15:20	1
Pyridine	3.1	U	9.7	1.0	ug/L		03/09/22 09:28	03/10/22 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		43 - 140	03/09/22 09:28	03/10/22 15:20	1
2-Fluorobiphenyl	47		44 - 119	03/09/22 09:28	03/10/22 15:20	1
2-Fluorophenol (Surr)	34		19 - 119	03/09/22 09:28	03/10/22 15:20	1
Nitrobenzene-d5 (Surr)	53		44 - 120	03/09/22 09:28	03/10/22 15:20	1
Phenol-d5 (Surr)	21		10 - 120	03/09/22 09:28	03/10/22 15:20	1
Terphenyl-d14	87		50 - 134	03/09/22 09:28	03/10/22 15:20	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2662 (RHMW13-5)

Lab Sample ID: 580-111032-4

Date Collected: 03/02/22 10:05

Matrix: Water

Date Received: 03/04/22 09:35

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 M Q	0.10	0.019	ug/L		03/09/22 09:28	03/10/22 14:38	1
2-Methylnaphthalene	0.080	U M Q	0.20	0.039	ug/L		03/09/22 09:28	03/10/22 14:38	1
Acenaphthene	0.032	U Q	0.10	0.014	ug/L		03/09/22 09:28	03/10/22 14:38	1
Acenaphthylene	0.032	U Q	0.050	0.0091	ug/L		03/09/22 09:28	03/10/22 14:38	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/09/22 09:28	03/10/22 14:38	1
Benzo[a]anthracene	0.032	U M	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 14:38	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/09/22 09:28	03/10/22 14:38	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/09/22 09:28	03/10/22 14:38	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 14:38	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 14:38	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:28	03/10/22 14:38	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:28	03/10/22 14:38	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/09/22 09:28	03/10/22 14:38	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/09/22 09:28	03/10/22 14:38	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 14:38	1
Naphthalene	0.080	U M Q	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 14:38	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 14:38	1
Pyrene	0.080	U	0.10	0.033	ug/L		03/09/22 09:28	03/10/22 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	52		40 - 140	03/09/22 09:28	03/10/22 14:38	1
Fluoranthene-d10 (Surr)	90		40 - 140	03/09/22 09:28	03/10/22 14:38	1
Terphenyl-d14	100		58 - 132	03/09/22 09:28	03/10/22 14:38	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		03/09/22 09:28	03/10/22 16:26	1
1,2-Dichlorobenzene	0.15	U Q	0.40	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 16:26	1
1,4-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4,6-Trichlorophenol	0.30	U Q	0.60	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4-Dichlorophenol	0.50	U Q	1.0	0.20	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4-Dimethylphenol	0.50	U Q	4.0	0.16	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
2-Chloronaphthalene	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 16:26	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
2-Nitrophenol	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 16:26	1
3,3'-Dichlorobenzidine	0.60	U M	1.0	0.26	ug/L		03/09/22 09:28	03/10/22 16:26	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/09/22 09:28	03/10/22 16:26	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/09/22 09:28	03/10/22 16:26	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/09/22 09:28	03/10/22 16:26	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
Bis(2-chloroethoxy)methane	0.15	U Q	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
Bis(2-chloroethyl)ether	0.091	U Q	0.10	0.030	ug/L		03/09/22 09:28	03/10/22 16:26	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/09/22 09:28	03/10/22 16:26	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2662 (RHMW13-5)

Lab Sample ID: 580-111032-4

Date Collected: 03/02/22 10:05

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.25	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/09/22 09:28	03/10/22 16:26	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/09/22 09:28	03/10/22 16:26	1
Dimethyl phthalate	0.15	U M	0.60	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L		03/09/22 09:28	03/10/22 16:26	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/09/22 09:28	03/10/22 16:26	1
Hexachlorobenzene	0.091	U	0.60	0.040	ug/L		03/09/22 09:28	03/10/22 16:26	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/09/22 09:28	03/10/22 16:26	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
Isophorone	0.30	U M Q	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
m+p-Cresol	0.30	U M Q	0.60	0.10	ug/L		03/09/22 09:28	03/10/22 16:26	1
Nitrobenzene	0.091	U M Q	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 16:26	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/09/22 09:28	03/10/22 16:26	1
N-Nitrosodi-n-propylamine	0.091	U Q	0.40	0.060	ug/L		03/09/22 09:28	03/10/22 16:26	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L		03/09/22 09:28	03/10/22 16:26	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/09/22 09:28	03/10/22 16:26	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/09/22 09:28	03/10/22 16:26	1
Phenol	0.60	U Q	1.0	0.36	ug/L		03/09/22 09:28	03/10/22 16:26	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 16:26	1
Pyridine	3.2	U M	10	1.1	ug/L		03/09/22 09:28	03/10/22 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		43 - 140	03/09/22 09:28	03/10/22 16:26	1
2-Fluorobiphenyl	65		44 - 119	03/09/22 09:28	03/10/22 16:26	1
2-Fluorophenol (Surr)	44		19 - 119	03/09/22 09:28	03/10/22 16:26	1
Nitrobenzene-d5 (Surr)	70		44 - 120	03/09/22 09:28	03/10/22 16:26	1
Phenol-d5 (Surr)	30		10 - 120	03/09/22 09:28	03/10/22 16:26	1
Terphenyl-d14	99		50 - 134	03/09/22 09:28	03/10/22 16:26	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2660 (RHMW01R)

Lab Sample ID: 580-111032-5

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.031	U M Q	0.096	0.018	ug/L		03/09/22 09:28	03/10/22 14:57	1
2-Methylnaphthalene	0.077	U M Q	0.19	0.037	ug/L		03/09/22 09:28	03/10/22 14:57	1
Acenaphthene	0.022	J M Q	0.096	0.013	ug/L		03/09/22 09:28	03/10/22 14:57	1
Acenaphthylene	0.031	U Q	0.048	0.0086	ug/L		03/09/22 09:28	03/10/22 14:57	1
Anthracene	0.077	U	0.096	0.021	ug/L		03/09/22 09:28	03/10/22 14:57	1
Benzo[a]anthracene	0.031	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 14:57	1
Benzo[a]pyrene	0.031	U	0.096	0.011	ug/L		03/09/22 09:28	03/10/22 14:57	1
Benzo[b]fluoranthene	0.031	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 14:57	1
Benzo[g,h,i]perylene	0.031	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 14:57	1
Benzo[k]fluoranthene	0.031	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 14:57	1
Chrysene	0.031	U	0.096	0.015	ug/L		03/09/22 09:28	03/10/22 14:57	1
Dibenz(a,h)anthracene	0.031	U	0.096	0.025	ug/L		03/09/22 09:28	03/10/22 14:57	1
Fluoranthene	0.031	U	0.19	0.017	ug/L		03/09/22 09:28	03/10/22 14:57	1
Fluorene	0.031	U M	0.096	0.016	ug/L		03/09/22 09:28	03/10/22 14:57	1
Indeno[1,2,3-cd]pyrene	0.031	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 14:57	1
Naphthalene	0.11	M Q	0.096	0.030	ug/L		03/09/22 09:28	03/10/22 14:57	1
Phenanthrene	0.077	U M	0.096	0.030	ug/L		03/09/22 09:28	03/10/22 14:57	1
Pyrene	0.077	U	0.096	0.032	ug/L		03/09/22 09:28	03/10/22 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	53		40 - 140	03/09/22 09:28	03/10/22 14:57	1
Fluoranthene-d10 (Surr)	85		40 - 140	03/09/22 09:28	03/10/22 14:57	1
Terphenyl-d14	93		58 - 132	03/09/22 09:28	03/10/22 14:57	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U Q	0.38	0.086	ug/L		03/09/22 09:28	03/10/22 16:48	1
1,2-Dichlorobenzene	0.14	U Q	0.38	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
1,3-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 16:48	1
1,4-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4,5-Trichlorophenol	0.29	U	0.38	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4,6-Trichlorophenol	0.29	U Q	0.57	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4-Dichlorophenol	0.48	U M Q	0.96	0.19	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4-Dimethylphenol	0.48	U M Q	3.8	0.15	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4-Dinitrophenol	3.1	U Q	4.8	1.5	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,4-Dinitrotoluene	0.29	U M	0.96	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
2,6-Dinitrotoluene	0.29	U M	0.38	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
2-Chloronaphthalene	0.14	U M Q	0.96	0.067	ug/L		03/09/22 09:28	03/10/22 16:48	1
2-Chlorophenol	0.14	U Q	0.96	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
2-Nitrophenol	0.14	U M Q	0.96	0.067	ug/L		03/09/22 09:28	03/10/22 16:48	1
3,3'-Dichlorobenzidine	0.57	U M	0.96	0.25	ug/L		03/09/22 09:28	03/10/22 16:48	1
4,6-Dinitro-2-methylphenol	1.1	U M Q	1.9	0.53	ug/L		03/09/22 09:28	03/10/22 16:48	1
4-Bromophenyl phenyl ether	0.14	U M	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
4-Chloro-3-methylphenol	0.29	U M	0.57	0.12	ug/L		03/09/22 09:28	03/10/22 16:48	1
4-Chlorophenyl phenyl ether	0.14	U M	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
4-Nitrophenol	5.7	U M	9.6	1.6	ug/L		03/09/22 09:28	03/10/22 16:48	1
Azobenzene	0.14	U M	1.9	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
Bis(2-chloroethoxy)methane	0.14	U M Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
Bis(2-chloroethyl)ether	0.086	U M Q	0.096	0.029	ug/L		03/09/22 09:28	03/10/22 16:48	1
Bis(2-ethylhexyl) phthalate	1.5	U	2.9	0.71	ug/L		03/09/22 09:28	03/10/22 16:48	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2660 (RHMW01R)

Lab Sample ID: 580-111032-5

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.14	U Q	0.24	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
Butyl benzyl phthalate	0.57	U	3.8	0.26	ug/L		03/09/22 09:28	03/10/22 16:48	1
Diethyl phthalate	0.29	U M	0.96	0.14	ug/L		03/09/22 09:28	03/10/22 16:48	1
Dimethyl phthalate	0.14	U M	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
Di-n-butyl phthalate	0.48	U	2.9	0.18	ug/L		03/09/22 09:28	03/10/22 16:48	1
Di-n-octyl phthalate	0.29	U M	0.96	0.12	ug/L		03/09/22 09:28	03/10/22 16:48	1
Hexachlorobenzene	0.086	U	0.57	0.038	ug/L		03/09/22 09:28	03/10/22 16:48	1
Hexachlorobutadiene	0.14	U Q	0.96	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
Hexachlorocyclopentadiene	0.29	U Q	0.96	0.13	ug/L		03/09/22 09:28	03/10/22 16:48	1
Hexachloroethane	0.14	U Q	0.96	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
Isophorone	0.29	U M Q	0.38	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
m+p-Cresol	0.15	J Q	0.57	0.096	ug/L		03/09/22 09:28	03/10/22 16:48	1
Nitrobenzene	0.086	U M Q	0.96	0.038	ug/L		03/09/22 09:28	03/10/22 16:48	1
N-Nitrosodimethylamine	0.57	U	1.9	0.25	ug/L		03/09/22 09:28	03/10/22 16:48	1
N-Nitrosodi-n-propylamine	0.086	U M Q	0.38	0.057	ug/L		03/09/22 09:28	03/10/22 16:48	1
N-Nitrosodiphenylamine	0.14	U M	0.96	0.067	ug/L		03/09/22 09:28	03/10/22 16:48	1
o-Cresol	0.14	U Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 16:48	1
Pentachlorophenol	0.96	U M Q	9.6	0.49	ug/L		03/09/22 09:28	03/10/22 16:48	1
Phenol	0.57	U Q	0.96	0.34	ug/L		03/09/22 09:28	03/10/22 16:48	1
Pyrene	0.086	U	0.96	0.038	ug/L		03/09/22 09:28	03/10/22 16:48	1
Pyridine	1.4	J	9.6	1.0	ug/L		03/09/22 09:28	03/10/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		43 - 140	03/09/22 09:28	03/10/22 16:48	1
2-Fluorobiphenyl	55		44 - 119	03/09/22 09:28	03/10/22 16:48	1
2-Fluorophenol (Surr)	48		19 - 119	03/09/22 09:28	03/10/22 16:48	1
Nitrobenzene-d5 (Surr)	69		44 - 120	03/09/22 09:28	03/10/22 16:48	1
Phenol-d5 (Surr)	30		10 - 120	03/09/22 09:28	03/10/22 16:48	1
Terphenyl-d14	91		50 - 134	03/09/22 09:28	03/10/22 16:48	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2661 (RHMW01R FD)

Lab Sample ID: 580-111032-6

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.10	0.019	ug/L		03/09/22 09:28	03/10/22 15:16	1
2-Methylnaphthalene	0.081	U M Q	0.20	0.039	ug/L		03/09/22 09:28	03/10/22 15:16	1
Acenaphthene	0.024	J Q	0.10	0.014	ug/L		03/09/22 09:28	03/10/22 15:16	1
Acenaphthylene	0.032	U Q	0.051	0.0091	ug/L		03/09/22 09:28	03/10/22 15:16	1
Anthracene	0.081	U	0.10	0.022	ug/L		03/09/22 09:28	03/10/22 15:16	1
Benzo[a]anthracene	0.032	U	0.051	0.014	ug/L		03/09/22 09:28	03/10/22 15:16	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/09/22 09:28	03/10/22 15:16	1
Benzo[b]fluoranthene	0.032	U	0.051	0.011	ug/L		03/09/22 09:28	03/10/22 15:16	1
Benzo[g,h,i]perylene	0.032	U	0.051	0.012	ug/L		03/09/22 09:28	03/10/22 15:16	1
Benzo[k]fluoranthene	0.032	U	0.051	0.012	ug/L		03/09/22 09:28	03/10/22 15:16	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:28	03/10/22 15:16	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:28	03/10/22 15:16	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/09/22 09:28	03/10/22 15:16	1
Fluorene	0.032	U M	0.10	0.017	ug/L		03/09/22 09:28	03/10/22 15:16	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.051	0.014	ug/L		03/09/22 09:28	03/10/22 15:16	1
Naphthalene	0.093	J M Q	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 15:16	1
Phenanthrene	0.081	U	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 15:16	1
Pyrene	0.081	U	0.10	0.033	ug/L		03/09/22 09:28	03/10/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	56		40 - 140	03/09/22 09:28	03/10/22 15:16	1
Fluoranthene-d10 (Surr)	78		40 - 140	03/09/22 09:28	03/10/22 15:16	1
Terphenyl-d14	85		58 - 132	03/09/22 09:28	03/10/22 15:16	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		03/09/22 09:28	03/10/22 17:10	1
1,2-Dichlorobenzene	0.15	U Q	0.40	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
1,3-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 17:10	1
1,4-Dichlorobenzene	0.091	U Q	0.40	0.040	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4,6-Trichlorophenol	0.30	U Q	0.61	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4-Dichlorophenol	0.51	U Q	1.0	0.20	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4-Dimethylphenol	0.51	U M Q	4.0	0.16	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4-Dinitrophenol	3.2	U Q	5.1	1.6	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,4-Dinitrotoluene	0.30	U M	1.0	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
2-Chloronaphthalene	0.15	U M Q	1.0	0.071	ug/L		03/09/22 09:28	03/10/22 17:10	1
2-Chlorophenol	0.15	U Q	1.0	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
2-Nitrophenol	0.15	U M Q	1.0	0.071	ug/L		03/09/22 09:28	03/10/22 17:10	1
3,3'-Dichlorobenzidine	0.61	U M	1.0	0.26	ug/L		03/09/22 09:28	03/10/22 17:10	1
4,6-Dinitro-2-methylphenol	1.2	U M Q	2.0	0.56	ug/L		03/09/22 09:28	03/10/22 17:10	1
4-Bromophenyl phenyl ether	0.15	U	0.61	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
4-Chloro-3-methylphenol	0.30	U M	0.61	0.13	ug/L		03/09/22 09:28	03/10/22 17:10	1
4-Chlorophenyl phenyl ether	0.15	U M	0.61	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
4-Nitrophenol	6.1	U	10	1.7	ug/L		03/09/22 09:28	03/10/22 17:10	1
Azobenzene	0.15	U M	2.0	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
Bis(2-chloroethoxy)methane	0.15	U M Q	0.61	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
Bis(2-chloroethyl)ether	0.091	U Q	0.10	0.030	ug/L		03/09/22 09:28	03/10/22 17:10	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.75	ug/L		03/09/22 09:28	03/10/22 17:10	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2661 (RHMW01R FD)

Lab Sample ID: 580-111032-6

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.25	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
Butyl benzyl phthalate	0.61	U	4.0	0.27	ug/L		03/09/22 09:28	03/10/22 17:10	1
Diethyl phthalate	0.30	U M	1.0	0.15	ug/L		03/09/22 09:28	03/10/22 17:10	1
Dimethyl phthalate	0.15	U M	0.61	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
Di-n-butyl phthalate	0.32	J	3.0	0.19	ug/L		03/09/22 09:28	03/10/22 17:10	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/09/22 09:28	03/10/22 17:10	1
Hexachlorobenzene	0.091	U	0.61	0.040	ug/L		03/09/22 09:28	03/10/22 17:10	1
Hexachlorobutadiene	0.15	U Q	1.0	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/09/22 09:28	03/10/22 17:10	1
Hexachloroethane	0.15	U Q	1.0	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
Isophorone	0.30	U M Q	0.40	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
m+p-Cresol	0.30	U M Q	0.61	0.10	ug/L		03/09/22 09:28	03/10/22 17:10	1
Nitrobenzene	0.091	U M Q	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 17:10	1
N-Nitrosodimethylamine	0.61	U	2.0	0.26	ug/L		03/09/22 09:28	03/10/22 17:10	1
N-Nitrosodi-n-propylamine	0.091	U Q	0.40	0.061	ug/L		03/09/22 09:28	03/10/22 17:10	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.071	ug/L		03/09/22 09:28	03/10/22 17:10	1
o-Cresol	0.15	U M Q	0.61	0.051	ug/L		03/09/22 09:28	03/10/22 17:10	1
Pentachlorophenol	1.0	U Q	10	0.52	ug/L		03/09/22 09:28	03/10/22 17:10	1
Phenol	0.61	U M Q	1.0	0.36	ug/L		03/09/22 09:28	03/10/22 17:10	1
Pyrene	0.091	U M	1.0	0.040	ug/L		03/09/22 09:28	03/10/22 17:10	1
Pyridine	3.2	U	10	1.1	ug/L		03/09/22 09:28	03/10/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		43 - 140	03/09/22 09:28	03/10/22 17:10	1
2-Fluorobiphenyl	59		44 - 119	03/09/22 09:28	03/10/22 17:10	1
2-Fluorophenol (Surr)	50		19 - 119	03/09/22 09:28	03/10/22 17:10	1
Nitrobenzene-d5 (Surr)	71		44 - 120	03/09/22 09:28	03/10/22 17:10	1
Phenol-d5 (Surr)	32		10 - 120	03/09/22 09:28	03/10/22 17:10	1
Terphenyl-d14	85		50 - 134	03/09/22 09:28	03/10/22 17:10	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2664 (OWDFMW04A)

Lab Sample ID: 580-111032-7

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.030	U M Q	0.095	0.018	ug/L		03/09/22 09:28	03/10/22 15:36	1
2-Methylnaphthalene	0.076	U M Q	0.19	0.037	ug/L		03/09/22 09:28	03/10/22 15:36	1
Acenaphthene	0.030	U Q	0.095	0.013	ug/L		03/09/22 09:28	03/10/22 15:36	1
Acenaphthylene	0.030	U Q	0.048	0.0086	ug/L		03/09/22 09:28	03/10/22 15:36	1
Anthracene	0.076	U	0.095	0.021	ug/L		03/09/22 09:28	03/10/22 15:36	1
Benzo[a]anthracene	0.030	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 15:36	1
Benzo[a]pyrene	0.030	U	0.095	0.010	ug/L		03/09/22 09:28	03/10/22 15:36	1
Benzo[b]fluoranthene	0.030	U	0.048	0.010	ug/L		03/09/22 09:28	03/10/22 15:36	1
Benzo[g,h,i]perylene	0.030	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 15:36	1
Benzo[k]fluoranthene	0.030	U	0.048	0.011	ug/L		03/09/22 09:28	03/10/22 15:36	1
Chrysene	0.030	U	0.095	0.015	ug/L		03/09/22 09:28	03/10/22 15:36	1
Dibenz(a,h)anthracene	0.030	U	0.095	0.025	ug/L		03/09/22 09:28	03/10/22 15:36	1
Fluoranthene	0.030	U	0.19	0.017	ug/L		03/09/22 09:28	03/10/22 15:36	1
Fluorene	0.030	U	0.095	0.016	ug/L		03/09/22 09:28	03/10/22 15:36	1
Indeno[1,2,3-cd]pyrene	0.030	U	0.048	0.013	ug/L		03/09/22 09:28	03/10/22 15:36	1
Naphthalene	0.076	U M Q	0.095	0.030	ug/L		03/09/22 09:28	03/10/22 15:36	1
Phenanthrene	0.076	U	0.095	0.030	ug/L		03/09/22 09:28	03/10/22 15:36	1
Pyrene	0.076	U M	0.095	0.031	ug/L		03/09/22 09:28	03/10/22 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	56		40 - 140	03/09/22 09:28	03/10/22 15:36	1
Fluoranthene-d10 (Surr)	83		40 - 140	03/09/22 09:28	03/10/22 15:36	1
Terphenyl-d14	91		58 - 132	03/09/22 09:28	03/10/22 15:36	1

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.29	U Q	0.38	0.086	ug/L		03/09/22 09:28	03/10/22 17:32	1
1,2-Dichlorobenzene	0.14	U Q	0.38	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
1,3-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 17:32	1
1,4-Dichlorobenzene	0.086	U Q	0.38	0.038	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4,5-Trichlorophenol	0.29	U	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4,6-Trichlorophenol	0.29	U Q	0.57	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4-Dichlorophenol	0.48	U Q	0.95	0.19	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4-Dimethylphenol	0.48	U Q	3.8	0.15	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4-Dinitrophenol	3.0	U Q	4.8	1.5	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,4-Dinitrotoluene	0.29	U	0.95	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
2,6-Dinitrotoluene	0.29	U	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
2-Chloronaphthalene	0.14	U Q	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 17:32	1
2-Chlorophenol	0.14	U Q	0.95	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
2-Nitrophenol	0.14	U Q	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 17:32	1
3,3'-Dichlorobenzidine	0.57	U M	0.95	0.25	ug/L		03/09/22 09:28	03/10/22 17:32	1
4,6-Dinitro-2-methylphenol	1.1	U Q	1.9	0.52	ug/L		03/09/22 09:28	03/10/22 17:32	1
4-Bromophenyl phenyl ether	0.14	U	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
4-Chloro-3-methylphenol	0.29	U	0.57	0.12	ug/L		03/09/22 09:28	03/10/22 17:32	1
4-Chlorophenyl phenyl ether	0.14	U	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
4-Nitrophenol	5.7	U	9.5	1.6	ug/L		03/09/22 09:28	03/10/22 17:32	1
Azobenzene	0.14	U M	1.9	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
Bis(2-chloroethoxy)methane	0.14	U M Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
Bis(2-chloroethyl)ether	0.086	U Q	0.095	0.029	ug/L		03/09/22 09:28	03/10/22 17:32	1
Bis(2-ethylhexyl) phthalate	1.5	U	2.9	0.71	ug/L		03/09/22 09:28	03/10/22 17:32	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2664 (OWDFMW04A)

Lab Sample ID: 580-111032-7

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	0.14	U Q	0.24	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
Butyl benzyl phthalate	0.57	U	3.8	0.26	ug/L		03/09/22 09:28	03/10/22 17:32	1
Diethyl phthalate	0.29	U	0.95	0.14	ug/L		03/09/22 09:28	03/10/22 17:32	1
Dimethyl phthalate	0.14	U	0.57	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
Di-n-butyl phthalate	0.22	J	2.9	0.18	ug/L		03/09/22 09:28	03/10/22 17:32	1
Di-n-octyl phthalate	0.29	U M	0.95	0.12	ug/L		03/09/22 09:28	03/10/22 17:32	1
Hexachlorobenzene	0.086	U	0.57	0.038	ug/L		03/09/22 09:28	03/10/22 17:32	1
Hexachlorobutadiene	0.14	U Q	0.95	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
Hexachlorocyclopentadiene	0.29	U Q	0.95	0.13	ug/L		03/09/22 09:28	03/10/22 17:32	1
Hexachloroethane	0.14	U Q	0.95	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
Isophorone	0.29	U M Q	0.38	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
m+p-Cresol	0.29	U Q	0.57	0.095	ug/L		03/09/22 09:28	03/10/22 17:32	1
Nitrobenzene	0.086	U M Q	0.95	0.038	ug/L		03/09/22 09:28	03/10/22 17:32	1
N-Nitrosodimethylamine	0.57	U	1.9	0.25	ug/L		03/09/22 09:28	03/10/22 17:32	1
N-Nitrosodi-n-propylamine	0.086	U Q	0.38	0.057	ug/L		03/09/22 09:28	03/10/22 17:32	1
N-Nitrosodiphenylamine	0.14	U	0.95	0.067	ug/L		03/09/22 09:28	03/10/22 17:32	1
o-Cresol	0.14	U Q	0.57	0.048	ug/L		03/09/22 09:28	03/10/22 17:32	1
Pentachlorophenol	0.95	U Q	9.5	0.49	ug/L		03/09/22 09:28	03/10/22 17:32	1
Phenol	0.57	U Q	0.95	0.34	ug/L		03/09/22 09:28	03/10/22 17:32	1
Pyrene	0.086	U	0.95	0.038	ug/L		03/09/22 09:28	03/10/22 17:32	1
Pyridine	3.0	U	9.5	1.0	ug/L		03/09/22 09:28	03/10/22 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		43 - 140	03/09/22 09:28	03/10/22 17:32	1
2-Fluorobiphenyl	72		44 - 119	03/09/22 09:28	03/10/22 17:32	1
2-Fluorophenol (Surr)	48		19 - 119	03/09/22 09:28	03/10/22 17:32	1
Nitrobenzene-d5 (Surr)	73		44 - 120	03/09/22 09:28	03/10/22 17:32	1
Phenol-d5 (Surr)	29		10 - 120	03/09/22 09:28	03/10/22 17:32	1
Terphenyl-d14	92		50 - 134	03/09/22 09:28	03/10/22 17:32	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2677 (OWDFMW04A)

Lab Sample ID: 580-111032-8

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

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 M Q	0.10	0.019	ug/L		03/09/22 09:33	03/10/22 15:55	1
2-Methylnaphthalene	0.080	U M Q	0.20	0.039	ug/L		03/09/22 09:33	03/10/22 15:55	1
Acenaphthene	0.032	U Q	0.10	0.014	ug/L		03/09/22 09:33	03/10/22 15:55	1
Acenaphthylene	0.032	U Q	0.050	0.0090	ug/L		03/09/22 09:33	03/10/22 15:55	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/09/22 09:33	03/10/22 15:55	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/09/22 09:33	03/10/22 15:55	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/09/22 09:33	03/10/22 15:55	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/09/22 09:33	03/10/22 15:55	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/09/22 09:33	03/10/22 15:55	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/09/22 09:33	03/10/22 15:55	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:33	03/10/22 15:55	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:33	03/10/22 15:55	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/09/22 09:33	03/10/22 15:55	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/09/22 09:33	03/10/22 15:55	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/09/22 09:33	03/10/22 15:55	1
Naphthalene	0.080	U M Q	0.10	0.031	ug/L		03/09/22 09:33	03/10/22 15:55	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/09/22 09:33	03/10/22 15:55	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/09/22 09:33	03/10/22 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	62		40 - 140	03/09/22 09:33	03/10/22 15:55	1
Fluoranthene-d10 (Surr)	94		40 - 140	03/09/22 09:33	03/10/22 15:55	1
Terphenyl-d14	103		58 - 132	03/09/22 09:33	03/10/22 15:55	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	0.090	ug/L		03/09/22 09:33	03/10/22 17:55	1
1,2-Dichlorobenzene	0.15	U Q	0.40	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
1,3-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:33	03/10/22 17:55	1
1,4-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4,6-Trichlorophenol	0.30	U Q	0.60	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4-Dichlorophenol	0.50	U Q	1.0	0.20	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4-Dimethylphenol	0.50	U Q	4.0	0.16	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,4-Dinitrotoluene	0.30	U M	1.0	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
2-Chloronaphthalene	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 17:55	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
2-Nitrophenol	0.15	U Q	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 17:55	1
3,3'-Dichlorobenzidine	0.60	U M	1.0	0.26	ug/L		03/09/22 09:33	03/10/22 17:55	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/09/22 09:33	03/10/22 17:55	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L		03/09/22 09:33	03/10/22 17:55	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
4-Nitrophenol	6.0	U	10	1.7	ug/L		03/09/22 09:33	03/10/22 17:55	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
Bis(2-chloroethoxy)methane	0.15	U Q	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
Bis(2-chloroethyl)ether	0.090	U Q	0.10	0.030	ug/L		03/09/22 09:33	03/10/22 17:55	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/09/22 09:33	03/10/22 17:55	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2677 (OWDFMW04A)

Lab Sample ID: 580-111032-8

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.25	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/09/22 09:33	03/10/22 17:55	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L		03/09/22 09:33	03/10/22 17:55	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
Di-n-butyl phthalate	1.2	J	3.0	0.19	ug/L		03/09/22 09:33	03/10/22 17:55	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/09/22 09:33	03/10/22 17:55	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/09/22 09:33	03/10/22 17:55	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/09/22 09:33	03/10/22 17:55	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
Isophorone	0.30	U M Q	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
m+p-Cresol	0.30	U Q	0.60	0.10	ug/L		03/09/22 09:33	03/10/22 17:55	1
Nitrobenzene	0.090	U M Q	1.0	0.040	ug/L		03/09/22 09:33	03/10/22 17:55	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/09/22 09:33	03/10/22 17:55	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/09/22 09:33	03/10/22 17:55	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 17:55	1
o-Cresol	0.15	U Q	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 17:55	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/09/22 09:33	03/10/22 17:55	1
Phenol	0.60	U Q	1.0	0.36	ug/L		03/09/22 09:33	03/10/22 17:55	1
Pyrene	0.090	U M	1.0	0.040	ug/L		03/09/22 09:33	03/10/22 17:55	1
Pyridine	3.2	U	10	1.1	ug/L		03/09/22 09:33	03/10/22 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		43 - 140	03/09/22 09:33	03/10/22 17:55	1
2-Fluorobiphenyl	76		44 - 119	03/09/22 09:33	03/10/22 17:55	1
2-Fluorophenol (Surr)	50		19 - 119	03/09/22 09:33	03/10/22 17:55	1
Nitrobenzene-d5 (Surr)	78		44 - 120	03/09/22 09:33	03/10/22 17:55	1
Phenol-d5 (Surr)	31		10 - 120	03/09/22 09:33	03/10/22 17:55	1
Terphenyl-d14	103		50 - 134	03/09/22 09:33	03/10/22 17:55	1

Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2667 (Sump Adit3)

Lab Sample ID: 580-111032-9

Date Collected: 03/02/22 14:20

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.10	0.019	ug/L		03/09/22 09:33	03/10/22 16:14	1
2-Methylnaphthalene	0.080	U Q	0.20	0.039	ug/L		03/09/22 09:33	03/10/22 16:14	1
Acenaphthene	0.032	U Q	0.10	0.014	ug/L		03/09/22 09:33	03/10/22 16:14	1
Acenaphthylene	0.032	U Q	0.050	0.0090	ug/L		03/09/22 09:33	03/10/22 16:14	1
Anthracene	0.080	U M	0.10	0.022	ug/L		03/09/22 09:33	03/10/22 16:14	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/09/22 09:33	03/10/22 16:14	1
Benzo[a]pyrene	0.032	U M	0.10	0.011	ug/L		03/09/22 09:33	03/10/22 16:14	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/09/22 09:33	03/10/22 16:14	1
Benzo[g,h,i]perylene	0.032	U M	0.050	0.012	ug/L		03/09/22 09:33	03/10/22 16:14	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/09/22 09:33	03/10/22 16:14	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:33	03/10/22 16:14	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:33	03/10/22 16:14	1
Fluoranthene	0.032	U M	0.20	0.018	ug/L		03/09/22 09:33	03/10/22 16:14	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/09/22 09:33	03/10/22 16:14	1
Indeno[1,2,3-cd]pyrene	0.032	U M	0.050	0.014	ug/L		03/09/22 09:33	03/10/22 16:14	1
Naphthalene	0.080	U M Q	0.10	0.031	ug/L		03/09/22 09:33	03/10/22 16:14	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/09/22 09:33	03/10/22 16:14	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/09/22 09:33	03/10/22 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	56		40 - 140	03/09/22 09:33	03/10/22 16:14	1
Fluoranthene-d10 (Surr)	81		40 - 140	03/09/22 09:33	03/10/22 16:14	1
Terphenyl-d14	91		58 - 132	03/09/22 09:33	03/10/22 16:14	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	0.090	ug/L		03/09/22 09:33	03/10/22 18:18	1
1,2-Dichlorobenzene	0.15	U Q	0.40	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
1,3-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:33	03/10/22 18:18	1
1,4-Dichlorobenzene	0.090	U Q	0.40	0.040	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4,6-Trichlorophenol	0.30	U Q	0.60	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4-Dichlorophenol	0.50	U Q	1.0	0.20	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4-Dimethylphenol	0.50	U M Q	4.0	0.16	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4-Dinitrophenol	3.2	U Q	5.0	1.6	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,4-Dinitrotoluene	0.30	U M	1.0	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
2,6-Dinitrotoluene	0.30	U M	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
2-Chloronaphthalene	0.15	U M Q	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 18:18	1
2-Chlorophenol	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
2-Nitrophenol	0.15	U M Q	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 18:18	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L		03/09/22 09:33	03/10/22 18:18	1
4,6-Dinitro-2-methylphenol	1.2	U Q	2.0	0.55	ug/L		03/09/22 09:33	03/10/22 18:18	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
4-Chloro-3-methylphenol	0.30	U M	0.60	0.13	ug/L		03/09/22 09:33	03/10/22 18:18	1
4-Chlorophenyl phenyl ether	0.15	U M	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
4-Nitrophenol	6.0	U M	10	1.7	ug/L		03/09/22 09:33	03/10/22 18:18	1
Azobenzene	0.15	U M	2.0	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
Bis(2-chloroethoxy)methane	0.15	U M Q	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
Bis(2-chloroethyl)ether	0.090	U Q	0.10	0.030	ug/L		03/09/22 09:33	03/10/22 18:18	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L		03/09/22 09:33	03/10/22 18:18	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2667 (Sump Adit3)

Lab Sample ID: 580-111032-9

Date Collected: 03/02/22 14:20

Matrix: Water

Date Received: 03/04/22 09:35

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 Q	0.25	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L		03/09/22 09:33	03/10/22 18:18	1
Diethyl phthalate	0.19	J	1.0	0.15	ug/L		03/09/22 09:33	03/10/22 18:18	1
Dimethyl phthalate	0.15	U M	0.60	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
Di-n-butyl phthalate	0.23	J	3.0	0.19	ug/L		03/09/22 09:33	03/10/22 18:18	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L		03/09/22 09:33	03/10/22 18:18	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L		03/09/22 09:33	03/10/22 18:18	1
Hexachlorobutadiene	0.15	U Q	1.0	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
Hexachlorocyclopentadiene	0.30	U Q	1.0	0.14	ug/L		03/09/22 09:33	03/10/22 18:18	1
Hexachloroethane	0.15	U Q	1.0	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
Isophorone	0.30	U M Q	0.40	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
m+p-Cresol	0.30	U M Q	0.60	0.10	ug/L		03/09/22 09:33	03/10/22 18:18	1
Nitrobenzene	0.090	U M Q	1.0	0.040	ug/L		03/09/22 09:33	03/10/22 18:18	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L		03/09/22 09:33	03/10/22 18:18	1
N-Nitrosodi-n-propylamine	0.090	U Q	0.40	0.060	ug/L		03/09/22 09:33	03/10/22 18:18	1
N-Nitrosodiphenylamine	0.15	U M	1.0	0.070	ug/L		03/09/22 09:33	03/10/22 18:18	1
o-Cresol	0.15	U M Q	0.60	0.050	ug/L		03/09/22 09:33	03/10/22 18:18	1
Pentachlorophenol	1.0	U Q	10	0.51	ug/L		03/09/22 09:33	03/10/22 18:18	1
Phenol	0.60	U M Q	1.0	0.36	ug/L		03/09/22 09:33	03/10/22 18:18	1
Pyrene	0.090	U	1.0	0.040	ug/L		03/09/22 09:33	03/10/22 18:18	1
Pyridine	3.2	U	10	1.1	ug/L		03/09/22 09:33	03/10/22 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		43 - 140	03/09/22 09:33	03/10/22 18:18	1
2-Fluorobiphenyl	63		44 - 119	03/09/22 09:33	03/10/22 18:18	1
2-Fluorophenol (Surr)	54		19 - 119	03/09/22 09:33	03/10/22 18:18	1
Nitrobenzene-d5 (Surr)	76		44 - 120	03/09/22 09:33	03/10/22 18:18	1
Phenol-d5 (Surr)	35		10 - 120	03/09/22 09:33	03/10/22 18:18	1
Terphenyl-d14	97		50 - 134	03/09/22 09:33	03/10/22 18:18	1

QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: MB 580-383282/1-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383282

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.30	U	0.40	0.090	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
1,2-Dichlorobenzene	0.15	U	0.40	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
1,3-Dichlorobenzene	0.090	U	0.40	0.040	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
1,4-Dichlorobenzene	0.090	U	0.40	0.040	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4,5-Trichlorophenol	0.30	U	0.40	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4,6-Trichlorophenol	0.30	U	0.60	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4-Dichlorophenol	0.50	U	1.0	0.20	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4-Dimethylphenol	0.50	U	4.0	0.16	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4-Dinitrophenol	3.2	U	5.0	1.6	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,4-Dinitrotoluene	0.30	U	1.0	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2,6-Dinitrotoluene	0.30	U	0.40	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2-Chloronaphthalene	0.15	U	1.0	0.070	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2-Chlorophenol	0.15	U	1.0	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
2-Nitrophenol	0.15	U	1.0	0.070	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
3,3'-Dichlorobenzidine	0.60	U	1.0	0.26	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
4,6-Dinitro-2-methylphenol	1.2	U	2.0	0.55	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
4-Bromophenyl phenyl ether	0.15	U	0.60	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
4-Chloro-3-methylphenol	0.30	U	0.60	0.13	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
4-Chlorophenyl phenyl ether	0.15	U	0.60	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
4-Nitrophenol	6.0	U	10	1.7	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Azobenzene	0.15	U M	2.0	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Bis(2-chloroethoxy)methane	0.15	U	0.60	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Bis(2-chloroethyl)ether	0.090	U	0.10	0.030	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Bis(2-ethylhexyl) phthalate	1.6	U	3.0	0.74	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
bis (2-chloroisopropyl) ether	0.15	U	0.25	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Butyl benzyl phthalate	0.60	U	4.0	0.27	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Diethyl phthalate	0.30	U	1.0	0.15	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Dimethyl phthalate	0.15	U	0.60	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Di-n-butyl phthalate	0.50	U	3.0	0.19	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Di-n-octyl phthalate	0.30	U M	1.0	0.13	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Hexachlorobenzene	0.090	U	0.60	0.040	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Hexachlorobutadiene	0.15	U	1.0	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Hexachlorocyclopentadiene	0.30	U	1.0	0.14	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Hexachloroethane	0.15	U	1.0	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Isophorone	0.30	U	0.40	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
m+p-Cresol	0.30	U	0.60	0.10	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Nitrobenzene	0.090	U	1.0	0.040	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
N-Nitrosodimethylamine	0.60	U	2.0	0.26	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
N-Nitrosodi-n-propylamine	0.090	U	0.40	0.060	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
N-Nitrosodiphenylamine	0.15	U	1.0	0.070	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
o-Cresol	0.15	U	0.60	0.050	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Pentachlorophenol	1.0	U	10	0.51	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Phenol	0.60	U M	1.0	0.36	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Pyrene	0.090	U	1.0	0.040	ug/L	-	03/09/22 09:28	03/10/22 11:53	1
Pyridine	3.2	U	10	1.1	ug/L	-	03/09/22 09:28	03/10/22 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		43 - 140	03/09/22 09:28	03/10/22 11:53	1

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: MB 580-383282/1-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383282

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	73		44 - 119	03/09/22 09:28	03/10/22 11:53	1
2-Fluorophenol (Surr)	51	M	19 - 119	03/09/22 09:28	03/10/22 11:53	1
Nitrobenzene-d5 (Surr)	79		44 - 120	03/09/22 09:28	03/10/22 11:53	1
Phenol-d5 (Surr)	31	M	10 - 120	03/09/22 09:28	03/10/22 11:53	1
Terphenyl-d14	105		50 - 134	03/09/22 09:28	03/10/22 11:53	1

Lab Sample ID: LCS 580-383282/2-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	2.00	1.57		ug/L		79	29 - 116
1,2-Dichlorobenzene	2.00	1.63		ug/L		81	32 - 111
1,3-Dichlorobenzene	2.00	1.59		ug/L		79	28 - 110
1,4-Dichlorobenzene	2.00	1.58		ug/L		79	29 - 112
2,4,5-Trichlorophenol	2.00	1.52		ug/L		76	53 - 123
2,4,6-Trichlorophenol	2.00	1.48		ug/L		74	50 - 125
2,4-Dichlorophenol	2.00	1.62		ug/L		81	47 - 121
2,4-Dimethylphenol	2.00	1.53	J	ug/L		77	31 - 124
2,4-Dinitrophenol	4.00	2.18	J M	ug/L		55	23 - 143
2,4-Dinitrotoluene	2.00	1.69		ug/L		84	57 - 128
2,6-Dinitrotoluene	2.00	1.63		ug/L		81	57 - 124
2-Chloronaphthalene	2.00	1.59		ug/L		79	40 - 116
2-Chlorophenol	2.00	1.67		ug/L		83	38 - 117
2-Nitrophenol	2.00	1.71		ug/L		86	47 - 123
3,3'-Dichlorobenzidine	4.00	4.19		ug/L		105	27 - 129
4,6-Dinitro-2-methylphenol	4.00	3.28		ug/L		82	44 - 137
4-Bromophenyl phenyl ether	2.00	1.68		ug/L		84	55 - 124
4-Chloro-3-methylphenol	2.00	1.58		ug/L		79	52 - 119
4-Chlorophenyl phenyl ether	2.00	1.54		ug/L		77	53 - 121
4-Nitrophenol	4.00	6.0	U	ug/L		38	35 - 145
Azobenzene	2.00	1.59	J	ug/L		80	61 - 116
Bis(2-chloroethoxy)methane	2.00	1.65		ug/L		83	48 - 120
Bis(2-chloroethyl)ether	2.00	1.63		ug/L		82	43 - 118
Bis(2-ethylhexyl) phthalate	2.00	2.18	J	ug/L		109	55 - 135
bis (2-chloroisopropyl) ether	2.00	1.60		ug/L		80	37 - 130
Butyl benzyl phthalate	2.00	2.06	J	ug/L		103	53 - 134
Diethyl phthalate	2.00	1.71		ug/L		86	56 - 125
Dimethyl phthalate	2.00	1.71		ug/L		86	45 - 127
Di-n-butyl phthalate	2.00	1.98	J	ug/L		99	59 - 127
Di-n-octyl phthalate	2.00	1.90		ug/L		95	51 - 140
Hexachlorobenzene	2.00	1.63		ug/L		81	53 - 125
Hexachlorobutadiene	2.00	1.55		ug/L		77	22 - 124
Hexachlorocyclopentadiene	2.00	1.44		ug/L		72	20 - 125
Hexachloroethane	2.00	1.49		ug/L		74	21 - 115
Isophorone	2.00	1.60		ug/L		80	42 - 124
m+p-Cresol	2.00	1.38		ug/L		69	29 - 110
Nitrobenzene	2.00	1.61		ug/L		80	45 - 121

QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: LCS 580-383282/2-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	2.00	1.22	J	ug/L		61	45 - 125
N-Nitrosodi-n-propylamine	2.00	1.63		ug/L		82	49 - 119
N-Nitrosodiphenylamine	2.00	1.71		ug/L		86	51 - 123
o-Cresol	2.00	1.42		ug/L		71	30 - 117
Pentachlorophenol	4.00	2.20	J	ug/L		55	35 - 138
Phenol	2.00	0.847	J M	ug/L		42	13 - 120
Pyrene	2.00	1.91		ug/L		95	57 - 126
Pyridine	4.00	1.89	J	ug/L		47	20 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		43 - 140
2-Fluorobiphenyl	65		44 - 119
2-Fluorophenol (Surr)	53	M	19 - 119
Nitrobenzene-d5 (Surr)	75		44 - 120
Phenol-d5 (Surr)	35		10 - 120
Terphenyl-d14	91		50 - 134

Lab Sample ID: LCSD 580-383282/3-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.20	Q	ug/L		60	29 - 116	26	20
1,2-Dichlorobenzene	2.00	1.20	Q	ug/L		60	32 - 111	30	20
1,3-Dichlorobenzene	2.00	1.15	Q	ug/L		58	28 - 110	32	20
1,4-Dichlorobenzene	2.00	1.20	Q	ug/L		60	29 - 112	27	20
2,4,5-Trichlorophenol	2.00	1.40		ug/L		70	53 - 123	8	20
2,4,6-Trichlorophenol	2.00	1.19	Q	ug/L		60	50 - 125	21	20
2,4-Dichlorophenol	2.00	1.20	Q	ug/L		60	47 - 121	30	20
2,4-Dimethylphenol	2.00	1.15	J Q	ug/L		58	31 - 124	28	20
2,4-Dinitrophenol	4.00	2.43	J M	ug/L		61	23 - 143	10	20
2,4-Dinitrotoluene	2.00	1.57		ug/L		78	57 - 128	8	20
2,6-Dinitrotoluene	2.00	1.40		ug/L		70	57 - 124	15	20
2-Chloronaphthalene	2.00	1.25	Q	ug/L		62	40 - 116	24	20
2-Chlorophenol	2.00	1.23	Q	ug/L		62	38 - 117	30	20
2-Nitrophenol	2.00	1.29	Q	ug/L		64	47 - 123	28	20
3,3'-Dichlorobenzidine	4.00	3.93		ug/L		98	27 - 129	6	20
4,6-Dinitro-2-methylphenol	4.00	3.10		ug/L		78	44 - 137	5	20
4-Bromophenyl phenyl ether	2.00	1.42		ug/L		71	55 - 124	17	20
4-Chloro-3-methylphenol	2.00	1.37		ug/L		68	52 - 119	14	20
4-Chlorophenyl phenyl ether	2.00	1.29		ug/L		64	53 - 121	17	20
4-Nitrophenol	4.00	6.0	U	ug/L		42	35 - 145	10	20
Azobenzene	2.00	1.34	J	ug/L		67	61 - 116	17	20
Bis(2-chloroethoxy)methane	2.00	1.20	Q	ug/L		60	48 - 120	31	20
Bis(2-chloroethyl)ether	2.00	1.20	Q	ug/L		60	43 - 118	30	20
Bis(2-ethylhexyl) phthalate	2.00	2.20	J	ug/L		110	55 - 135	1	20
bis (2-chloroisopropyl) ether	2.00	1.14	Q	ug/L		57	37 - 130	34	20
Butyl benzyl phthalate	2.00	2.02	J	ug/L		101	53 - 134	2	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: LCSD 580-383282/3-A
Matrix: Water
Analysis Batch: 383442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Diethyl phthalate	2.00	1.67		ug/L		83	56 - 125	3	20	
Dimethyl phthalate	2.00	1.53		ug/L		76	45 - 127	11	20	
Di-n-butyl phthalate	2.00	1.91	J	ug/L		96	59 - 127	3	20	
Di-n-octyl phthalate	2.00	1.92		ug/L		96	51 - 140	1	20	
Hexachlorobenzene	2.00	1.42		ug/L		71	53 - 125	14	20	
Hexachlorobutadiene	2.00	1.16	Q	ug/L		58	22 - 124	29	20	
Hexachlorocyclopentadiene	2.00	1.09	Q	ug/L		55	20 - 125	27	20	
Hexachloroethane	2.00	1.09	Q	ug/L		54	21 - 115	31	20	
Isophorone	2.00	1.23	Q	ug/L		61	42 - 124	27	20	
m+p-Cresol	2.00	1.08	M Q	ug/L		54	29 - 110	24	20	
Nitrobenzene	2.00	1.25	Q	ug/L		62	45 - 121	25	20	
N-Nitrosodimethylamine	2.00	0.998	J	ug/L		50	45 - 125	20	20	
N-Nitrosodi-n-propylamine	2.00	1.26	Q	ug/L		63	49 - 119	26	20	
N-Nitrosodiphenylamine	2.00	1.59		ug/L		80	51 - 123	7	20	
o-Cresol	2.00	1.08	Q	ug/L		54	30 - 117	27	20	
Pentachlorophenol	4.00	2.76	J Q	ug/L		69	35 - 138	23	20	
Phenol	2.00	0.662	J Q	ug/L		33	13 - 120	25	20	
Pyrene	2.00	1.81		ug/L		90	57 - 126	5	20	
Pyridine	4.00	1.65	J	ug/L		41	20 - 125	13	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	70		43 - 140
2-Fluorobiphenyl	55		44 - 119
2-Fluorophenol (Surr)	44	M	19 - 119
Nitrobenzene-d5 (Surr)	59		44 - 120
Phenol-d5 (Surr)	27		10 - 120
Terphenyl-d14	91		50 - 134

Lab Sample ID: 580-111032-3 MS
Matrix: Water
Analysis Batch: 383442

Client Sample ID: ERH2659 (RHMW05)
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
1,2,4-Trichlorobenzene	0.29	U J1 Q	2.04	0.878		ug/L		43	29 - 116	
1,2-Dichlorobenzene	0.15	U J1 Q	2.04	0.811		ug/L		40	32 - 111	
1,3-Dichlorobenzene	0.087	U J1 Q	2.04	0.756		ug/L		37	28 - 110	
1,4-Dichlorobenzene	0.087	U J1 Q	2.04	0.809		ug/L		40	29 - 112	
2,4,5-Trichlorophenol	0.29	U	2.04	1.45		ug/L		71	53 - 123	
2,4,6-Trichlorophenol	0.29	U Q	2.04	1.18		ug/L		58	50 - 125	
2,4-Dichlorophenol	0.48	U J1 Q	2.04	1.12		ug/L		55	47 - 121	
2,4-Dimethylphenol	0.48	U M Q	2.04	1.04	J	ug/L		51	31 - 124	
2,4-Dinitrophenol	3.1	U Q	4.08	1.80	J M	ug/L		44	23 - 143	
2,4-Dinitrotoluene	0.29	U	2.04	1.38		ug/L		68	57 - 128	
2,6-Dinitrotoluene	0.29	U	2.04	1.28		ug/L		63	57 - 124	
2-Chloronaphthalene	0.15	U J1 Q	2.04	1.01		ug/L		50	40 - 116	
2-Chlorophenol	0.15	U Q	2.04	1.13		ug/L		55	38 - 117	
2-Nitrophenol	0.15	U J1 Q	2.04	1.14		ug/L		56	47 - 123	
3,3'-Dichlorobenzidine	0.58	U	4.08	1.99		ug/L		49	27 - 129	

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: 580-111032-3 MS

Matrix: Water

Analysis Batch: 383442

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
4,6-Dinitro-2-methylphenol	1.2	U Q	4.08	2.37		ug/L		58		44 - 137
4-Bromophenyl phenyl ether	0.15	U	2.04	1.37		ug/L		67		55 - 124
4-Chloro-3-methylphenol	0.29	U J1	2.04	1.28		ug/L		63		52 - 119
4-Chlorophenyl phenyl ether	0.15	U	2.04	1.18		ug/L		58		53 - 121
4-Nitrophenol	5.8	U J1	4.08	6.1	U M J1	ug/L		0		35 - 145
Azobenzene	0.15	U M J1	2.04	1.29	J	ug/L		63		61 - 116
Bis(2-chloroethoxy)methane	0.15	U J1 Q	2.04	1.01		ug/L		50		48 - 120
Bis(2-chloroethyl)ether	0.087	U J1 Q	2.04	1.06		ug/L		52		43 - 118
Bis(2-ethylhexyl) phthalate	1.5	U	2.04	2.09	J	ug/L		103		55 - 135
bis (2-chloroisopropyl) ether	0.15	U J1 Q	2.04	1.00		ug/L		49		37 - 130
Butyl benzyl phthalate	0.58	U	2.04	1.93	J	ug/L		94		53 - 134
Diethyl phthalate	0.29	U	2.04	1.47		ug/L		72		56 - 125
Dimethyl phthalate	0.15	U J1	2.04	1.31		ug/L		64		45 - 127
Di-n-butyl phthalate	0.48	U	2.04	1.77	J	ug/L		87		59 - 127
Di-n-octyl phthalate	0.29	U M	2.04	1.75		ug/L		86		51 - 140
Hexachlorobenzene	0.087	U	2.04	1.33		ug/L		65		53 - 125
Hexachlorobutadiene	0.15	U J1 Q	2.04	0.562	J	ug/L		28		22 - 124
Hexachlorocyclopentadiene	0.29	U J1 Q	2.04	0.509	J	ug/L		25		20 - 125
Hexachloroethane	0.15	U J1 Q	2.04	0.563	J	ug/L		28		21 - 115
Isophorone	0.29	U J1 Q	2.04	1.05		ug/L		51		42 - 124
m+p-Cresol	0.29	U M Q	2.04	0.919		ug/L		45		29 - 110
Nitrobenzene	0.087	U Q	2.04	1.10		ug/L		54		45 - 121
N-Nitrosodimethylamine	0.58	U	2.04	0.909	J	ug/L		45		45 - 125
N-Nitrosodi-n-propylamine	0.087	U J1 Q	2.04	1.08		ug/L		53		49 - 119
N-Nitrosodiphenylamine	0.15	U	2.04	1.37		ug/L		67		51 - 123
o-Cresol	0.15	U M Q	2.04	0.997		ug/L		49		30 - 117
Pentachlorophenol	0.97	U Q	4.08	2.85	J	ug/L		70		35 - 138
Phenol	0.58	U Q	2.04	0.526	J	ug/L		26		13 - 120
Pyrene	0.087	U M	2.04	1.68		ug/L		82		57 - 126
Pyridine	3.1	U	4.08	1.24	J	ug/L		30		20 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	71		43 - 140
2-Fluorobiphenyl	44		44 - 119
2-Fluorophenol (Surr)	36		19 - 119
Nitrobenzene-d5 (Surr)	52		44 - 120
Phenol-d5 (Surr)	22		10 - 120
Terphenyl-d14	85		50 - 134

Lab Sample ID: 580-111032-3 MSD

Matrix: Water

Analysis Batch: 383442

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
1,2,4-Trichlorobenzene	0.29	U J1 Q	1.98	1.15	J1	ug/L		58		29 - 116	27	20
1,2-Dichlorobenzene	0.15	U J1 Q	1.98	1.12	J1	ug/L		57		32 - 111	32	20
1,3-Dichlorobenzene	0.087	U J1 Q	1.98	1.05	J1	ug/L		53		28 - 110	32	20
1,4-Dichlorobenzene	0.087	U J1 Q	1.98	1.05	J1	ug/L		53		29 - 112	26	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: 580-111032-3 MSD

Matrix: Water

Analysis Batch: 383442

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,4,5-Trichlorophenol	0.29	U	1.98	1.69		ug/L		85	53 - 123	15	20
2,4,6-Trichlorophenol	0.29	U Q	1.98	1.44		ug/L		73	50 - 125	20	20
2,4-Dichlorophenol	0.48	U J1 Q	1.98	1.41	J1	ug/L		71	47 - 121	23	20
2,4-Dimethylphenol	0.48	U M Q	1.98	1.23	J	ug/L		62	31 - 124	17	20
2,4-Dinitrophenol	3.1	U Q	3.96	1.95	J M	ug/L		49	23 - 143	8	20
2,4-Dinitrotoluene	0.29	U	1.98	1.67		ug/L		84	57 - 128	19	20
2,6-Dinitrotoluene	0.29	U	1.98	1.56		ug/L		79	57 - 124	20	20
2-Chloronaphthalene	0.15	U J1 Q	1.98	1.27	J1	ug/L		64	40 - 116	22	20
2-Chlorophenol	0.15	U Q	1.98	1.33		ug/L		67	38 - 117	16	20
2-Nitrophenol	0.15	U J1 Q	1.98	1.40	J1	ug/L		71	47 - 123	21	20
3,3'-Dichlorobenzidine	0.58	U	3.96	2.21		ug/L		56	27 - 129	10	20
4,6-Dinitro-2-methylphenol	1.2	U Q	3.96	2.72		ug/L		69	44 - 137	14	20
4-Bromophenyl phenyl ether	0.15	U	1.98	1.54		ug/L		78	55 - 124	11	20
4-Chloro-3-methylphenol	0.29	U J1	1.98	1.62	J1	ug/L		82	52 - 119	23	20
4-Chlorophenyl phenyl ether	0.15	U	1.98	1.39		ug/L		70	53 - 121	17	20
4-Nitrophenol	5.8	U J1	3.96	5.9	U J1	ug/L		0	35 - 145	NC	20
Azobenzene	0.15	U M J1	1.98	1.60	J J1	ug/L		81	61 - 116	21	20
Bis(2-chloroethoxy)methane	0.15	U J1 Q	1.98	1.30	J1	ug/L		65	48 - 120	24	20
Bis(2-chloroethyl)ether	0.087	U J1 Q	1.98	1.33	J1	ug/L		67	43 - 118	23	20
Bis(2-ethylhexyl) phthalate	1.5	U	1.98	2.36	J	ug/L		119	55 - 135	12	20
bis (2-chloroisopropyl) ether	0.15	U J1 Q	1.98	1.24	J1	ug/L		63	37 - 130	21	20
Butyl benzyl phthalate	0.58	U	1.98	2.18	J	ug/L		110	53 - 134	12	20
Diethyl phthalate	0.29	U	1.98	1.74		ug/L		88	56 - 125	17	20
Dimethyl phthalate	0.15	U J1	1.98	1.65	J1	ug/L		83	45 - 127	23	20
Di-n-butyl phthalate	0.48	U	1.98	2.05	J	ug/L		104	59 - 127	15	20
Di-n-octyl phthalate	0.29	U M	1.98	1.91		ug/L		96	51 - 140	8	20
Hexachlorobenzene	0.087	U	1.98	1.49		ug/L		75	53 - 125	12	20
Hexachlorobutadiene	0.15	U J1 Q	1.98	0.864	J J1	ug/L		44	22 - 124	42	20
Hexachlorocyclopentadiene	0.29	U J1 Q	1.98	0.700	J J1	ug/L		35	20 - 125	32	20
Hexachloroethane	0.15	U J1 Q	1.98	0.893	J J1	ug/L		45	21 - 115	45	20
Isophorone	0.29	U J1 Q	1.98	1.30	J1	ug/L		66	42 - 124	22	20
m+p-Cresol	0.29	U M Q	1.98	1.06		ug/L		53	29 - 110	14	20
Nitrobenzene	0.087	U Q	1.98	1.31		ug/L		66	45 - 121	18	20
N-Nitrosodimethylamine	0.58	U	1.98	1.02	J	ug/L		51	45 - 125	11	20
N-Nitrosodi-n-propylamine	0.087	U J1 Q	1.98	1.34	J1	ug/L		67	49 - 119	21	20
N-Nitrosodiphenylamine	0.15	U	1.98	1.55		ug/L		78	51 - 123	13	20
o-Cresol	0.15	U M Q	1.98	1.13		ug/L		57	30 - 117	13	20
Pentachlorophenol	0.97	U Q	3.96	3.39	J	ug/L		85	35 - 138	17	20
Phenol	0.58	U Q	1.98	0.617	J	ug/L		31	13 - 120	16	20
Pyrene	0.087	U M	1.98	1.87		ug/L		94	57 - 126	11	20
Pyridine	3.1	U	3.96	1.24	J	ug/L		31	20 - 125	0	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
2,4,6-Tribromophenol (Surr)	78		43 - 140
2-Fluorobiphenyl	57		44 - 119
2-Fluorophenol (Surr)	39		19 - 119
Nitrobenzene-d5 (Surr)	65		44 - 120
Phenol-d5 (Surr)	26		10 - 120

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: 580-111032-3 MSD
Matrix: Water
Analysis Batch: 383442

Client Sample ID: ERH2659 (RHMW05)
Prep Type: Total/NA
Prep Batch: 383282

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Terphenyl-d14	90		50 - 134

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

Lab Sample ID: MB 580-383282/1-A
Matrix: Water
Analysis Batch: 383445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 383282

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.10	0.019	ug/L		03/09/22 09:28	03/10/22 11:27	1
2-Methylnaphthalene	0.080	U	0.20	0.039	ug/L		03/09/22 09:28	03/10/22 11:27	1
Acenaphthene	0.032	U	0.10	0.014	ug/L		03/09/22 09:28	03/10/22 11:27	1
Acenaphthylene	0.032	U	0.050	0.0090	ug/L		03/09/22 09:28	03/10/22 11:27	1
Anthracene	0.080	U	0.10	0.022	ug/L		03/09/22 09:28	03/10/22 11:27	1
Benzo[a]anthracene	0.032	U	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 11:27	1
Benzo[a]pyrene	0.032	U	0.10	0.011	ug/L		03/09/22 09:28	03/10/22 11:27	1
Benzo[b]fluoranthene	0.032	U	0.050	0.011	ug/L		03/09/22 09:28	03/10/22 11:27	1
Benzo[g,h,i]perylene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 11:27	1
Benzo[k]fluoranthene	0.032	U	0.050	0.012	ug/L		03/09/22 09:28	03/10/22 11:27	1
Chrysene	0.032	U	0.10	0.016	ug/L		03/09/22 09:28	03/10/22 11:27	1
Dibenz(a,h)anthracene	0.032	U	0.10	0.026	ug/L		03/09/22 09:28	03/10/22 11:27	1
Fluoranthene	0.032	U	0.20	0.018	ug/L		03/09/22 09:28	03/10/22 11:27	1
Fluorene	0.032	U	0.10	0.017	ug/L		03/09/22 09:28	03/10/22 11:27	1
Indeno[1,2,3-cd]pyrene	0.032	U	0.050	0.014	ug/L		03/09/22 09:28	03/10/22 11:27	1
Naphthalene	0.080	U M	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 11:27	1
Phenanthrene	0.080	U M	0.10	0.031	ug/L		03/09/22 09:28	03/10/22 11:27	1
Pyrene	0.080	U M	0.10	0.033	ug/L		03/09/22 09:28	03/10/22 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	57		40 - 140	03/09/22 09:28	03/10/22 11:27	1
Fluoranthene-d10 (Surr)	96		40 - 140	03/09/22 09:28	03/10/22 11:27	1
Terphenyl-d14	105		58 - 132	03/09/22 09:28	03/10/22 11:27	1

Lab Sample ID: LCS 580-383282/2-A
Matrix: Water
Analysis Batch: 383445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	2.00	1.37		ug/L		69	41 - 115
2-Methylnaphthalene	2.00	1.33		ug/L		66	39 - 114
Acenaphthene	2.00	1.47		ug/L		74	48 - 114
Acenaphthylene	2.00	1.37		ug/L		69	35 - 121
Anthracene	2.00	1.61		ug/L		81	53 - 119
Benzo[a]anthracene	2.00	1.64		ug/L		82	59 - 120
Benzo[a]pyrene	2.00	1.47		ug/L		74	53 - 120
Benzo[b]fluoranthene	2.00	1.53		ug/L		76	53 - 126
Benzo[g,h,i]perylene	2.00	1.75		ug/L		88	44 - 128
Benzo[k]fluoranthene	2.00	1.73		ug/L		86	54 - 125

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: LCS 580-383282/2-A
Matrix: Water
Analysis Batch: 383445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	2.00	1.67		ug/L		83	57 - 120
Dibenz(a,h)anthracene	2.00	1.77	M	ug/L		88	44 - 131
Fluoranthene	2.00	1.70		ug/L		85	58 - 120
Fluorene	2.00	1.58		ug/L		79	50 - 118
Indeno[1,2,3-cd]pyrene	2.00	1.61	M	ug/L		81	48 - 130
Naphthalene	2.00	1.41		ug/L		70	43 - 114
Phenanthrene	2.00	1.49		ug/L		75	53 - 115
Pyrene	2.00	1.69		ug/L		85	53 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-methylnaphthalene-d10	58		40 - 140
Fluoranthene-d10 (Surr)	81		40 - 140
Terphenyl-d14	91		58 - 132

Lab Sample ID: LCSD 580-383282/3-A
Matrix: Water
Analysis Batch: 383445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 383282

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	2.00	1.01	Q	ug/L		50	41 - 115	31	20
2-Methylnaphthalene	2.00	0.985	Q	ug/L		49	39 - 114	29	20
Acenaphthene	2.00	1.14	Q	ug/L		57	48 - 114	26	20
Acenaphthylene	2.00	1.07	Q	ug/L		53	35 - 121	25	20
Anthracene	2.00	1.50		ug/L		75	53 - 119	7	20
Benzo[a]anthracene	2.00	1.53		ug/L		76	59 - 120	7	20
Benzo[a]pyrene	2.00	1.45		ug/L		72	53 - 120	2	20
Benzo[b]fluoranthene	2.00	1.45		ug/L		72	53 - 126	5	20
Benzo[g,h,i]perylene	2.00	1.69		ug/L		84	44 - 128	4	20
Benzo[k]fluoranthene	2.00	1.69		ug/L		85	54 - 125	2	20
Chrysene	2.00	1.62		ug/L		81	57 - 120	3	20
Dibenz(a,h)anthracene	2.00	1.70	M	ug/L		85	44 - 131	4	20
Fluoranthene	2.00	1.62		ug/L		81	58 - 120	5	20
Fluorene	2.00	1.31		ug/L		65	50 - 118	19	20
Indeno[1,2,3-cd]pyrene	2.00	1.53	M	ug/L		76	48 - 130	5	20
Naphthalene	2.00	1.07	Q	ug/L		54	43 - 114	27	20
Phenanthrene	2.00	1.38		ug/L		69	53 - 115	7	20
Pyrene	2.00	1.62		ug/L		81	53 - 121	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-methylnaphthalene-d10	46		40 - 140
Fluoranthene-d10 (Surr)	80		40 - 140
Terphenyl-d14	89		58 - 132

QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: 580-111032-3 MS

Matrix: Water

Analysis Batch: 383445

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
1-Methylnaphthalene	0.031	U M Q	2.04	0.869		ug/L		43		41 - 115
2-Methylnaphthalene	0.077	U M Q J1	2.04	0.834		ug/L		41		39 - 114
Acenaphthene	0.031	U Q J1	2.04	0.974		ug/L		48		48 - 114
Acenaphthylene	0.031	U Q J1	2.04	0.936		ug/L		46		35 - 121
Anthracene	0.077	U M	2.04	1.37		ug/L		67		53 - 119
Benzo[a]anthracene	0.031	U M	2.04	1.37		ug/L		67		59 - 120
Benzo[a]pyrene	0.031	U	2.04	1.22		ug/L		60		53 - 120
Benzo[b]fluoranthene	0.031	U J1	2.04	1.23		ug/L		60		53 - 126
Benzo[g,h,i]perylene	0.031	U	2.04	1.45		ug/L		71		44 - 128
Benzo[k]fluoranthene	0.031	U	2.04	1.47		ug/L		72		54 - 125
Chrysene	0.031	U	2.04	1.46		ug/L		71		57 - 120
Dibenz(a,h)anthracene	0.031	U	2.04	1.45	M	ug/L		71		44 - 131
Fluoranthene	0.031	U M	2.04	1.48		ug/L		72		58 - 120
Fluorene	0.031	U M	2.04	1.21		ug/L		59		50 - 118
Indeno[1,2,3-cd]pyrene	0.031	U J1	2.04	1.24	M	ug/L		61		48 - 130
Naphthalene	0.077	U M Q J1	2.04	0.900		ug/L		44		43 - 114
Phenanthrene	0.077	U M	2.04	1.29		ug/L		63		53 - 115
Pyrene	0.077	U M	2.04	1.46		ug/L		72		53 - 121

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-methylnaphthalene-d10	39	M Q	40 - 140
Fluoranthene-d10 (Surr)	72		40 - 140
Terphenyl-d14	80		58 - 132

Lab Sample ID: 580-111032-3 MSD

Matrix: Water

Analysis Batch: 383445

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1-Methylnaphthalene	0.031	U M Q	1.98	1.07		ug/L		54		41 - 115	20	20
2-Methylnaphthalene	0.077	U M Q J1	1.98	1.03	J1	ug/L		52		39 - 114	21	20
Acenaphthene	0.031	U Q J1	1.98	1.21	J1	ug/L		61		48 - 114	22	20
Acenaphthylene	0.031	U Q J1	1.98	1.18	J1	ug/L		60		35 - 121	23	20
Anthracene	0.077	U M	1.98	1.50		ug/L		76		53 - 119	8	20
Benzo[a]anthracene	0.031	U M	1.98	1.53		ug/L		77		59 - 120	11	20
Benzo[a]pyrene	0.031	U	1.98	1.45		ug/L		73		53 - 120	17	20
Benzo[b]fluoranthene	0.031	U J1	1.98	1.52	J1	ug/L		77		53 - 126	21	20
Benzo[g,h,i]perylene	0.031	U	1.98	1.69		ug/L		85		44 - 128	15	20
Benzo[k]fluoranthene	0.031	U	1.98	1.65		ug/L		83		54 - 125	12	20
Chrysene	0.031	U	1.98	1.62		ug/L		82		57 - 120	11	20
Dibenz(a,h)anthracene	0.031	U	1.98	1.71	M	ug/L		86		44 - 131	17	20
Fluoranthene	0.031	U M	1.98	1.62		ug/L		82		58 - 120	9	20
Fluorene	0.031	U M	1.98	1.44		ug/L		73		50 - 118	17	20
Indeno[1,2,3-cd]pyrene	0.031	U J1	1.98	1.55	M J1	ug/L		78		48 - 130	22	20
Naphthalene	0.077	U M Q J1	1.98	1.15	J1	ug/L		58		43 - 114	24	20
Phenanthrene	0.077	U M	1.98	1.45		ug/L		73		53 - 115	11	20
Pyrene	0.077	U M	1.98	1.59		ug/L		80		53 - 121	8	20

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QC Sample Results

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

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

Lab Sample ID: 580-111032-3 MSD

Matrix: Water

Analysis Batch: 383445

Client Sample ID: ERH2659 (RHMW05)

Prep Type: Total/NA

Prep Batch: 383282

<u>Surrogate</u>	<u>MSD MSD</u>		<u>Limits</u>
	<u>%Recovery</u>	<u>Qualifier</u>	
2-methylnaphthalene-d10	49		40 - 140
Fluoranthene-d10 (Surr)	76		40 - 140
Terphenyl-d14	84		58 - 132

Lab Chronicle

Client: AECOM
 Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2663 (OWDFMW05A)

Lab Sample ID: 580-111032-1

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 14:34	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 13:02	W1T	FGS SEA

Client Sample ID: ERH2675 (OWDFMW05A FD)

Lab Sample ID: 580-111032-2

Date Collected: 03/02/22 09:15

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 14:57	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 13:21	W1T	FGS SEA

Client Sample ID: ERH2659 (RHMW05)

Lab Sample ID: 580-111032-3

Date Collected: 03/02/22 10:00

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 15:20	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 13:40	W1T	FGS SEA

Client Sample ID: ERH2662 (RHMW13-5)

Lab Sample ID: 580-111032-4

Date Collected: 03/02/22 10:05

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 16:26	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 14:38	W1T	FGS SEA

Client Sample ID: ERH2660 (RHMW01R)

Lab Sample ID: 580-111032-5

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 16:48	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 14:57	W1T	FGS SEA

Lab Chronicle

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Client Sample ID: ERH2661 (RHMW01R FD)

Lab Sample ID: 580-111032-6

Date Collected: 03/02/22 11:45

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 17:10	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 15:16	W1T	FGS SEA

Client Sample ID: ERH2664 (OWDFMW04A)

Lab Sample ID: 580-111032-7

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 17:32	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:28	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 15:36	W1T	FGS SEA

Client Sample ID: ERH2677 (OWDFMW04A)

Lab Sample ID: 580-111032-8

Date Collected: 03/02/22 11:50

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:33	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 17:55	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:33	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 15:55	W1T	FGS SEA

Client Sample ID: ERH2667 (Sump Adit3)

Lab Sample ID: 580-111032-9

Date Collected: 03/02/22 14:20

Matrix: Water

Date Received: 03/04/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			383282	03/09/22 09:33	JJY	FGS SEA
Total/NA	Analysis	8270E		1	383442	03/10/22 18:18	W1T	FGS SEA
Total/NA	Prep	3510C			383282	03/09/22 09:33	JJY	FGS SEA
Total/NA	Analysis	8270E SIM		1	383445	03/10/22 16:14	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 GW CV18F0126

Job ID: 580-111032-1

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



Sample Summary

Client: AECOM
Project/Site: Red Hill GW CV18F0126

Job ID: 580-111032-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-111032-1	ERH2663 (OWDFMW05A)	Water	03/02/22 09:15	03/04/22 09:35
580-111032-2	ERH2675 (OWDFMW05A FD)	Water	03/02/22 09:15	03/04/22 09:35
580-111032-3	ERH2659 (RHMW05)	Water	03/02/22 10:00	03/04/22 09:35
580-111032-4	ERH2662 (RHMW13-5)	Water	03/02/22 10:05	03/04/22 09:35
580-111032-5	ERH2660 (RHMW01R)	Water	03/02/22 11:45	03/04/22 09:35
580-111032-6	ERH2661 (RHMW01R FD)	Water	03/02/22 11:45	03/04/22 09:35
580-111032-7	ERH2664 (OWDFMW04A)	Water	03/02/22 11:50	03/04/22 09:35
580-111032-8	ERH2677 (OWDFMW04A)	Water	03/02/22 11:50	03/04/22 09:35
580-111032-9	ERH2667 (Sump Adit3)	Water	03/02/22 14:20	03/04/22 09:35



Chain of Custody Record

Client Information		Sampler: CH 23 JV		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: Euro202203-11																			
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: 808 313 6607		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																			
Company: AECOM		PWSID:		Analysis Requested						Job #: 111032																	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SVOCs (full suite) by 8270D (Nap, 1-2Methylnap,PAR) by 8270D SIM						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)																	
City: Honolulu		TAT Requested (days): Rush - ASAP																									
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#:		3/3/22 MW						Total Number of Containers Special Instructions/Note:																	
Sample Identification		Sample Date										Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		SVOCs (full suite) by 8270D (Nap, 1-2Methylnap,PAR) by 8270D SIM		Total Number of Containers		Special Instructions/Note:	
ERH2663 (OWDFMW05A)		3/2/22										0915		G W		W		N		X		2					
ERH2675 (OWDFMW05A FD)		3/2/22										0915		G W		W		N		X		2					



580-111032 Chain of Custody

-1
-2

Chain of Custody Record

Client Information			Sampler: <u>Sarah Walker</u>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: Euro202203-10																													
Client Contact: Alethea Ramos (alternate: Margie Pascua)			Phone: <u>478-973-0578</u>		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		<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">Field Filtered Sample (Yes or No)</p> <p style="font-size: small; margin: 0;">Perform MS/MSD (Yes or No)</p> <p style="font-size: small; margin: 0;">SVOCs (full suite) by 8270D (Nap. 1-2Methylnap.PAH) by 8270D SIM</p> </div> <div style="text-align: center; font-size: 2em; margin-top: 20px;">X</div> <div style="text-align: center; font-size: 1.5em; margin-top: 10px;">03-03-22</div>						Preservation Codes:																											
City: Honolulu			TAT Requested (days): Rush - ASAP								<table border="0"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T - TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Z - other (specify)</td></tr> </table>		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:	
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State, Zip: Hawaii 96813			Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Total Number of Containers		Special Instructions/Note:																															
Phone: 808-521-3051 (direct: 808-529-7283) (alternate: 808-356-5373)			PO #:				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)</th> <th>Field Filtered Sample</th> <th>Perform MS/MSD</th> <th>SVOCs</th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr style="background-color: #f2f2f2;"> <td colspan="9">Preservation Code: N N X</td> </tr> <tr> <td>ERH2662 (RHMW13-5)</td> <td>3/2/22</td> <td>1005</td> <td>G</td> <td>W</td> <td>N</td> <td>N</td> <td>X</td> <td>2</td> </tr> </tbody> </table>		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	Perform MS/MSD	SVOCs	Total Number of Containers	Preservation Code: N N X									ERH2662 (RHMW13-5)	3/2/22	1005	G	W	N	N	X	2			
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	Perform MS/MSD			SVOCs	Total Number of Containers																												
Preservation Code: N N X																																						
ERH2662 (RHMW13-5)	3/2/22	1005	G	W	N	N	X	2																														
Email: alethea.ramos@aecom.com (alternate: margie.pascua@aecom.com)			WO #:		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Possible Hazard Identification</th> <th>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</th> </tr> </thead> <tbody> <tr> <td> <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 </td> <td> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months </td> </tr> </tbody> </table>		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																												
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Project Name: CV18F0126			Project #: 60571032		Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.																															
Site: RH			SSOW#:		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																											
Relinquished by: <u>Taylor White</u>			Date/Time: <u>03/07/22 09:23</u>		Company: AECOM		Received by: <u>[Signature]</u>		Date/Time: <u>3/14/22 935</u>		Company: <u>FGS</u>																											
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:																																		

Client Information					Sampler:	Lab PM:	Carrier Tracking No(s):	COC No.						
Client Contact: Alethea Ramos (alternate: Margie Pascua)					Gavin Mura	Elaine Walker	FedEx	Euro202203-9						
Company: AECOM					Phone:	E-Mail:	State of Origin:	Page:						
Address: 1001 Bishop St. Suite 1600					(808) 957-3201	M.Elaine.Walker@EurofinsET.com	Hawaii	Page 1 of 1						
City: Honolulu					Analysis Requested					Job #:				
State, Zip: Hawaii 96813					Due Date Requested: see subcontract	Total Number of Containers Perform MS/MSD (Yes or No) SVOCs (full suite) by 6270D (Nap. 1-2: Methylnap. PAH) by 8270D SIM					Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arnchlor H - Ascorbic Acid J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:			
TAT Requested (days): Rush - ASAP					Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
PO #:					WO #:									
Project #:					SSOW#:									
Project Name: CV18F0126					Site: RH									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/slurr, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SVOCs (full suite) by 6270D (Nap. 1-2: Methylnap. PAH) by 8270D SIM	Total Number of Containers	Special Instructions/Note:					
ERH2660 (RHMW01R)	03/02/22	1145	G	W	N	X		2						
-5 ERH2660 (RHMW01R)	03/02/22	1145	G	W	N	X		2						
-6 ERH2661 (RHMW01R FD)	03/02/22	1145	G	W	N	X		2						
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) <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: Zoe Diermier / <i>Zeel</i>					Date/Time: 3-3-22 / 0846	Company: AECOM	Received by: <i>EA</i>	Date/Time: 3/4/22	935	Company: IFGS				
Relinquished by:					Date/Time:	Company:	Received by:	Date/Time:	Company:					
Relinquished by:					Date/Time:	Company:	Received by:	Date/Time:	Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:										

Chain of Custody Record

Client Information		Sampler: <i>CH 25 SV</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COO No:					
Client Contact: Alethea Ramos (alternate: Margie Pascua)		Phone: <i>808 398 6607</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		<p>EPA 8260 BTEX+Naph</p> <p>EPA 8015 TPH-G (C6-C10)</p> <p>EPA 8015 TPH-DIO (C10-C24, C24-C40)</p> <p>EPA 8015 TPH-DIO (C10-C24, C24-C40) w/ silica gel cleanup</p> <p>EPA 8270 SIM PAHs (naphthalene, 1-methylnaphthalene, 2-methylnaphthalene)</p> <p><i>3/3/22 MN</i></p>				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)		W/O #:											
Project Name: CV18F0126		Project #: 60571032											
Site: RH		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers					
Sample Identification				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=water/soil, BT=TISSUE, A=AIR)		Special Instructions/Note:	
								Preservation Code:					
ERH2664 (OWDFMW04A)				<i>2/2/22</i>		<i>1150</i>		G W		N		2	
ERH2677 (OWDFMW04A)				<i>3/2/22</i>		<i>1150</i>		G W		N		2	
<i>MN 3/3/22</i>													
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:					
<i>MN 3/3/22 0900</i>								<i>3/4/22 935</i>					
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:	
<i>(Signature)</i>				<i>3/3/22 0900</i>		AECOM		<i>(Signature)</i>		<i>3/4/22 935</i>		EFG	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>A3 4.9/4.9</i>							

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Ly 8/1/wet/Bus Fedex 80 w/CS

Chain of Custody Record

Client Information	Sampler: <i>Kevin Lee</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No:
Client Contact: Alethea Ramos (alternate: Margie Pascua)	Phone: <i>8086363319</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	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) SVOCs (full suite) by 8270D (Nap. 1-2-Mathynap, PAM) by 8270DSIM	Total Number of containers	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)
City: Honolulu	TAT Requested (days): Rush - ASAP			
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	<i>Cu</i> <i>03/03/22</i>		
Site: RH	SSOW#:			

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-Mathynap, PAM) by 8270DSIM	Total Number of containers	Special Instructions/Note:
<i>-9</i> ERH2667 (Sump Adit3)	<i>03/02/22</i>	<i>1420</i>	G	W	N	X		2	
<i>3-3-22</i>									

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) <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)	Special Instructions/QC Requirements: DOD QSM project.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Zoe Diermier / Zoe Diermier</i>	Date/Time: <i>3-3-22 / 0846</i>	Company: AECOM	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>A3 6.7/1.7</i>
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Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-111032-1

Login Number: 111032

List Number: 1

Creator: Blankinship, Tom X

List Source: Eurofins Seattle

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

