



ANALYTICAL REPORT

Lab Number:	L2161038
Client:	Anchor QEA, LLC 1605 Cornwall Avenue Bellingham, WA 98225
ATTN:	Delaney Peterson
Phone:	(360) 715-2707
Project Name:	US MOORINGS
Project Number:	000029-02
Report Date:	01/10/22

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Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2161038

Report Date: 01/10/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2161038-01	USMPDI-014SC-A-14-15-201109	SEDIMENT	Not Specified	11/09/20 14:55	11/05/21
L2161038-02	USMPDI-014SC-A-15-16-201109	SEDIMENT	Not Specified	11/09/20 14:55	11/05/21
L2161038-03	USMPDI-017SC-A-16-17-210429	SEDIMENT	Not Specified	04/29/20 09:45	11/05/21
L2161038-04	USMPDI-028SC-A-05-6.3-210504	SEDIMENT	Not Specified	05/04/20 08:50	11/05/21
L2161038-05	USMPDI-040SC-A-09-10-201103	SEDIMENT	Not Specified	11/03/20 16:30	11/05/21
L2161038-06	USMPDI-044SC-A-15-16-201104	SEDIMENT	Not Specified	11/04/20 08:45	11/05/21
L2161038-07	USMPDI-044SC-A-16-17-201104	SEDIMENT	Not Specified	11/04/20 08:45	11/05/21
L2161038-08	USMPDI-047SC-A-05-06-201030	SEDIMENT	Not Specified	10/30/20 09:30	11/05/21
L2161038-09	USMPDI-056SC-A-05-06-201107	SEDIMENT	Not Specified	11/07/20 13:30	11/05/21
L2161038-10	USMPDI-056SC-A-06-07-201107	SEDIMENT	Not Specified	11/07/20 13:30	11/05/21
L2161038-11	USMPDI-004SC-A-05-06-201111	SEDIMENT	Not Specified	11/11/20 08:35	11/10/21
L2161038-12	USMPDI-004SC-A-06-07-201111	SEDIMENT	Not Specified	11/09/21 10:57	11/10/21

Project Name: US MOORINGS
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were frozen upon receipt in order to arrest the holding time.

Alkylated PAHs

L2161038-01, -05, -07, -10, -11, and -12: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 01/10/22

ORGANICS

SEMIVOLATILES

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-01
 Client ID: USMPDI-014SC-A-14-15-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/22/21 11:48
 Analyst: CC
 Percent Solids: 66%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	14.0		ug/kg	0.737	0.146	1
C1-Decalins	59.8		ug/kg	0.737	0.146	1
C2-Decalins	123.		ug/kg	0.737	0.146	1
C3-Decalins	101.		ug/kg	0.737	0.146	1
C4-Decalins	126.		ug/kg	0.737	0.146	1
Naphthalene	371.		ug/kg	1.47	0.424	1
C1-Naphthalenes	62.5		ug/kg	1.47	0.424	1
C2-Naphthalenes	66.6		ug/kg	1.47	0.424	1
C3-Naphthalenes	92.1		ug/kg	1.47	0.424	1
C4-Naphthalenes	85.7		ug/kg	1.47	0.424	1
2-Methylnaphthalene	61.5		ug/kg	1.47	0.380	1
1-Methylnaphthalene	34.2		ug/kg	1.47	0.464	1
Benzothiophene	17.2		ug/kg	1.47	0.462	1
C1-Benzo(b)thiophenes	9.98		ug/kg	1.47	0.462	1
C2-Benzo(b)thiophenes	10.6		ug/kg	1.47	0.462	1
C3-Benzo(b)thiophenes	16.7		ug/kg	1.47	0.462	1
C4-Benzo(b)thiophenes	17.4		ug/kg	1.47	0.462	1
Biphenyl	68.7		ug/kg	1.47	0.456	1
2,6-Dimethylnaphthalene	28.6		ug/kg	1.47	0.350	1
Dibenzofuran	29.2		ug/kg	1.47	0.464	1
Acenaphthylene	111.		ug/kg	1.47	0.281	1
Acenaphthene	528.		ug/kg	1.47	0.260	1
2,3,5-Trimethylnaphthalene	13.2		ug/kg	1.47	0.241	1
Fluorene	221.		ug/kg	1.47	0.393	1
C1-Fluorenes	61.2		ug/kg	1.47	0.393	1
C2-Fluorenes	77.1		ug/kg	1.47	0.393	1
C3-Fluorenes	84.9		ug/kg	1.47	0.393	1
Dibenzothiophene	242.		ug/kg	1.47	0.406	1

Project Name: US MOORINGS

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Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-01
 Client ID: USMPDI-014SC-A-14-15-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	25.8		ug/kg	1.47	0.406	1
2/3-Methyldibenzothiophene(2MDT)	29.2		ug/kg	1.47	0.406	1
1-Methyldibenzothiophene(1MDT)	8.09		ug/kg	1.47	0.406	1
C1-Dibenzothiophenes BS	73.6		ug/kg	1.47	0.406	1
C2-Dibenzothiophenes	69.2		ug/kg	1.47	0.406	1
C3-Dibenzothiophenes	64.1		ug/kg	1.47	0.406	1
C4-Dibenzothiophenes	36.3		ug/kg	1.47	0.406	1
3-Methylphenanthrene (3MP)	100.		ug/kg	1.47	0.488	1
2-Methylphenanthrene (2MP)	118.		ug/kg	1.47	0.488	1
2-Methylanthracene (2MA)	32.0		ug/kg	1.47	0.488	1
9/4-Methylphenanthrene (9MP)	107.		ug/kg	1.47	0.488	1
C1-Phenanthrenes/Anthracenes	433.		ug/kg	1.47	0.488	1
C2-Phenanthrenes/Anthr BS	267.		ug/kg	1.47	0.488	1
C3-Phenanthrenes/Anthracenes	195.		ug/kg	1.47	0.488	1
C4-Phenanthrenes/Anthracenes	102.		ug/kg	1.47	0.488	1
Anthracene	377.		ug/kg	1.47	0.304	1
Carbazole	20.9		ug/kg	1.47	0.482	1
1-Methylphenanthrene	96.3		ug/kg	1.47	0.389	1
Benzo(b)fluorene	171.		ug/kg	1.47	0.427	1
7H-Benzo(c)fluorene	44.4		ug/kg	1.47	0.427	1
2-Methylpyrene ¹	81.8		ug/kg	1.47	0.388	1
4-Methylpyrene ¹	84.3		ug/kg	1.47	0.388	1
1-Methylpyrene ¹	86.0		ug/kg	1.47	0.388	1
C1-Fluoranthenes/Pyrenes	715.		ug/kg	1.47	0.388	1
C2-Fluoranthenes/Pyrenes	154.		ug/kg	1.47	0.388	1
C3-Fluoranthenes/Pyrenes	95.0		ug/kg	1.47	0.388	1
C4-Fluoranthenes/Pyrenes	80.8		ug/kg	1.47	0.388	1
Naphthobenzothiophenes	250.		ug/kg	1.47	0.412	1
C1-Naphthobenzothiophenes	62.9		ug/kg	1.47	0.412	1
C2-Naphthobenzothiophenes	45.4		ug/kg	1.47	0.412	1
C3-Naphthobenzothiophenes	49.1		ug/kg	1.47	0.412	1
C4-Naphthobenzothiophenes	24.0		ug/kg	1.47	0.412	1
Benz(a)anthracene	1150		ug/kg	1.47	0.301	1
Chrysene	1330		ug/kg	1.47	0.298	1
C1-Chrysenes	251.		ug/kg	1.47	0.298	1
C2-Chrysenes BS	127.		ug/kg	1.47	0.298	1
C3-Chrysenes	104.		ug/kg	1.47	0.298	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-01
Client ID: USMPDI-014SC-A-14-15-201109
Sample Location: Not Specified

Date Collected: 11/09/20 14:55
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	70.3		ug/kg	1.47	0.298	1
Benzo(b)fluoranthene	1450		ug/kg	1.47	0.383	1
Benzo(j)+(k)fluoranthene	1010		ug/kg	1.47	0.293	1
Benzo(a)fluoranthene	302.		ug/kg	1.47	0.293	1
Benzo(e)pyrene	1310		ug/kg	1.47	0.304	1
Benzo(a)pyrene	2450	E	ug/kg	1.47	0.421	1
Perylene	873.		ug/kg	1.47	0.284	1
Indeno(1,2,3-cd)pyrene	1850		ug/kg	1.47	0.400	1
Dibenz(a,h)+(a,c)anthracene	258.		ug/kg	1.47	0.398	1
Benzo(g,h,i)perylene	2780	E	ug/kg	1.47	0.392	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	67		50-130
Phenanthrene-d10	78		50-130
Benzo(a)pyrene-d12	98		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-01 D
 Client ID: USMPDI-014SC-A-14-15-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 02:13
 Analyst: CC
 Percent Solids: 66%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	3000		ug/kg	7.37	2.44	5
Retene	59.8		ug/kg	7.37	1.81	5
Fluoranthene	3980		ug/kg	7.37	2.34	5
Pyrene	4900		ug/kg	7.37	1.94	5
Benzo(a)pyrene	2120		ug/kg	7.37	2.10	5
Benzo(g,h,i)perylene	2370		ug/kg	7.37	1.96	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	58		50-130
Phenanthrene-d10	83		50-130
Benzo(a)pyrene-d12	94		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-02
 Client ID: USMPDI-014SC-A-15-16-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/22/21 13:17
 Analyst: CC
 Percent Solids: 68%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	6.53	J	ug/kg	0.735	0.146	1
C1-Decalins	27.1		ug/kg	0.735	0.146	1
C2-Decalins	59.7		ug/kg	0.735	0.146	1
C3-Decalins	49.4		ug/kg	0.735	0.146	1
C4-Decalins	64.0		ug/kg	0.735	0.146	1
Naphthalene	170.		ug/kg	1.47	0.422	1
C1-Naphthalenes	50.6		ug/kg	1.47	0.422	1
C2-Naphthalenes	45.3		ug/kg	1.47	0.422	1
C3-Naphthalenes	49.9		ug/kg	1.47	0.422	1
C4-Naphthalenes	47.5		ug/kg	1.47	0.422	1
2-Methylnaphthalene	48.0		ug/kg	1.47	0.379	1
1-Methylnaphthalene	29.6		ug/kg	1.47	0.463	1
Benzothiophene	8.52		ug/kg	1.47	0.460	1
C1-Benzo(b)thiophenes	5.65		ug/kg	1.47	0.460	1
C2-Benzo(b)thiophenes	9.52		ug/kg	1.47	0.460	1
C3-Benzo(b)thiophenes	11.9		ug/kg	1.47	0.460	1
C4-Benzo(b)thiophenes	11.2		ug/kg	1.47	0.460	1
Biphenyl	33.7		ug/kg	1.47	0.454	1
2,6-Dimethylnaphthalene	21.1		ug/kg	1.47	0.349	1
Dibenzofuran	13.5		ug/kg	1.47	0.463	1
Acenaphthylene	61.2		ug/kg	1.47	0.280	1
Acenaphthene	165.		ug/kg	1.47	0.259	1
2,3,5-Trimethylnaphthalene	5.92		ug/kg	1.47	0.240	1
Fluorene	82.0		ug/kg	1.47	0.392	1
C1-Fluorenes	39.6		ug/kg	1.47	0.392	1
C2-Fluorenes	46.0		ug/kg	1.47	0.392	1
C3-Fluorenes	49.4		ug/kg	1.47	0.392	1
Dibenzothiophene	113.		ug/kg	1.47	0.405	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

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SAMPLE RESULTS

Lab ID: L2161038-02
 Client ID: USMPDI-014SC-A-15-16-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	18.5		ug/kg	1.47	0.405	1
2/3-Methyl dibenzothiophene(2MDT)	21.7		ug/kg	1.47	0.405	1
1-Methyl dibenzothiophene(1MDT)	5.66		ug/kg	1.47	0.405	1
C1-Dibenzothiophenes BS	54.3		ug/kg	1.47	0.405	1
C2-Dibenzothiophenes	48.3		ug/kg	1.47	0.405	1
C3-Dibenzothiophenes	40.1		ug/kg	1.47	0.405	1
C4-Dibenzothiophenes	21.7		ug/kg	1.47	0.405	1
3-Methylphenanthrene (3MP)	66.0		ug/kg	1.47	0.487	1
2-Methylphenanthrene (2MP)	77.6		ug/kg	1.47	0.487	1
2-Methylanthracene (2MA)	21.1		ug/kg	1.47	0.487	1
9/4-Methylphenanthrene (9MP)	65.2		ug/kg	1.47	0.487	1
C1-Phenanthrenes/Anthracenes	282.		ug/kg	1.47	0.487	1
C2-Phenanthrenes/Anthr BS	169.		ug/kg	1.47	0.487	1
C3-Phenanthrenes/Anthracenes	110.		ug/kg	1.47	0.487	1
C4-Phenanthrenes/Anthracenes	54.5		ug/kg	1.47	0.487	1
Anthracene	173.		ug/kg	1.47	0.303	1
Carbazole	8.67		ug/kg	1.47	0.481	1
1-Methylphenanthrene	66.7		ug/kg	1.47	0.388	1
Benzo(b)fluorene	97.1		ug/kg	1.47	0.426	1
7H-Benzo(c)fluorene	44.7		ug/kg	1.47	0.426	1
2-Methylpyrene ¹	52.0		ug/kg	1.47	0.386	1
4-Methylpyrene ¹	52.8		ug/kg	1.47	0.386	1
1-Methylpyrene ¹	54.9		ug/kg	1.47	0.386	1
C1-Fluoranthenes/Pyrenes	468.		ug/kg	1.47	0.386	1
C2-Fluoranthenes/Pyrenes	105.		ug/kg	1.47	0.386	1
C3-Fluoranthenes/Pyrenes	58.5		ug/kg	1.47	0.386	1
C4-Fluoranthenes/Pyrenes	45.5		ug/kg	1.47	0.386	1
Naphthobenzothiophenes	167.		ug/kg	1.47	0.411	1
C1-Naphthobenzothiophenes	45.1		ug/kg	1.47	0.411	1
C2-Naphthobenzothiophenes	28.2		ug/kg	1.47	0.411	1
C3-Naphthobenzothiophenes	29.3		ug/kg	1.47	0.411	1
C4-Naphthobenzothiophenes	13.8		ug/kg	1.47	0.411	1
Benz(a)anthracene	709.		ug/kg	1.47	0.300	1
Chrysene	830.		ug/kg	1.47	0.297	1
C1-Chrysenes	179.		ug/kg	1.47	0.297	1
C2-Chrysenes BS	86.3		ug/kg	1.47	0.297	1
C3-Chrysenes	60.8		ug/kg	1.47	0.297	1

Project Name: US MOORINGS
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SAMPLE RESULTS

Lab ID: L2161038-02
Client ID: USMPDI-014SC-A-15-16-201109
Sample Location: Not Specified

Date Collected: 11/09/20 14:55
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	41.9		ug/kg	1.47	0.297	1
Benzo(b)fluoranthene	854.		ug/kg	1.47	0.382	1
Benzo(j)+(k)fluoranthene	660.		ug/kg	1.47	0.292	1
Benzo(a)fluoranthene	190.		ug/kg	1.47	0.292	1
Benzo(e)pyrene	795.		ug/kg	1.47	0.303	1
Benzo(a)pyrene	1500		ug/kg	1.47	0.420	1
Perylene	784.		ug/kg	1.47	0.284	1
Indeno(1,2,3-cd)pyrene	1140		ug/kg	1.47	0.399	1
Dibenz(a,h)+(a,c)anthracene	160.		ug/kg	1.47	0.397	1
Benzo(g,h,i)perylene	1720		ug/kg	1.47	0.390	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	69		50-130
Phenanthrene-d10	81		50-130
Benzo(a)pyrene-d12	98		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-02 D
 Client ID: USMPDI-014SC-A-15-16-201109
 Sample Location: Not Specified

Date Collected: 11/09/20 14:55
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 08:01
 Analyst: CC
 Percent Solids: 68%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	1270		ug/kg	2.94	0.974	2
Retene	31.2		ug/kg	2.94	0.721	2
Fluoranthene	1960		ug/kg	2.94	0.934	2
Pyrene	2470		ug/kg	2.94	0.773	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	62		50-130
Phenanthrene-d10	82		50-130
Benzo(a)pyrene-d12	94		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-03
 Client ID: USMPDI-017SC-A-16-17-210429
 Sample Location: Not Specified

Date Collected: 04/29/20 09:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/27/21 20:25
 Analyst: CC
 Percent Solids: 69%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	0.161	J	ug/kg	0.719	0.143	1
C1-Decalins	ND		ug/kg	0.719	0.143	1
C2-Decalins	ND		ug/kg	0.719	0.143	1
C3-Decalins	ND		ug/kg	0.719	0.143	1
C4-Decalins	ND		ug/kg	0.719	0.143	1
Naphthalene	0.959	J	ug/kg	1.44	0.413	1
C1-Naphthalenes	0.800	J	ug/kg	1.44	0.413	1
C2-Naphthalenes	1.34	J	ug/kg	1.44	0.413	1
C3-Naphthalenes	1.30	J	ug/kg	1.44	0.413	1
C4-Naphthalenes	1.44		ug/kg	1.44	0.413	1
2-Methylnaphthalene	0.713	J	ug/kg	1.44	0.371	1
1-Methylnaphthalene	0.498	J	ug/kg	1.44	0.453	1
Benzothiophene	ND		ug/kg	1.44	0.450	1
C1-Benzo(b)thiophenes	ND		ug/kg	1.44	0.450	1
C2-Benzo(b)thiophenes	1.11	J	ug/kg	1.44	0.450	1
C3-Benzo(b)thiophenes	1.33	J	ug/kg	1.44	0.450	1
C4-Benzo(b)thiophenes	ND		ug/kg	1.44	0.450	1
Biphenyl	ND		ug/kg	1.44	0.444	1
2,6-Dimethylnaphthalene	0.400	J	ug/kg	1.44	0.342	1
Dibenzofuran	ND		ug/kg	1.44	0.453	1
Acenaphthylene	0.374	J	ug/kg	1.44	0.274	1
Acenaphthene	0.467	J	ug/kg	1.44	0.254	1
2,3,5-Trimethylnaphthalene	ND		ug/kg	1.44	0.235	1
Fluorene	0.715	J	ug/kg	1.44	0.384	1
C1-Fluorenes	0.525	J	ug/kg	1.44	0.384	1
C2-Fluorenes	1.09	J	ug/kg	1.44	0.384	1
C3-Fluorenes	ND		ug/kg	1.44	0.384	1
Dibenzothiophene	ND		ug/kg	1.44	0.397	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-03
 Client ID: USMPDI-017SC-A-16-17-210429
 Sample Location: Not Specified

Date Collected: 04/29/20 09:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	ND		ug/kg	1.44	0.397	1
2/3-Methyldibenzothiophene(2MDT)	ND		ug/kg	1.44	0.397	1
1-Methyldibenzothiophene(1MDT)	ND		ug/kg	1.44	0.397	1
C1-Dibenzothiophenes BS	ND		ug/kg	1.44	0.397	1
C2-Dibenzothiophenes	0.884	J	ug/kg	1.44	0.397	1
C3-Dibenzothiophenes	1.17	J	ug/kg	1.44	0.397	1
C4-Dibenzothiophenes	ND		ug/kg	1.44	0.397	1
Phenanthrene	2.84		ug/kg	1.44	0.477	1
3-Methylphenanthrene (3MP)	ND		ug/kg	1.44	0.477	1
2-Methylphenanthrene (2MP)	ND		ug/kg	1.44	0.477	1
2-Methylanthracene (2MA)	ND		ug/kg	1.44	0.477	1
9/4-Methylphenanthrene (9MP)	ND		ug/kg	1.44	0.477	1
C1-Phenanthrenes/Anthracenes	1.98		ug/kg	1.44	0.477	1
C2-Phenanthrenes/Anthr BS	1.83		ug/kg	1.44	0.477	1
C3-Phenanthrenes/Anthracenes	2.32		ug/kg	1.44	0.477	1
C4-Phenanthrenes/Anthracenes	4.36		ug/kg	1.44	0.477	1
Retene	9.26		ug/kg	1.44	0.353	1
Anthracene	0.731	J	ug/kg	1.44	0.296	1
Carbazole	ND		ug/kg	1.44	0.470	1
1-Methylphenanthrene	0.529	J	ug/kg	1.44	0.380	1
Fluoranthene	3.17		ug/kg	1.44	0.457	1
Benzo(b)fluorene	0.613	J	ug/kg	1.44	0.417	1
7H-Benzo(c)fluorene	0.426	J	ug/kg	1.44	0.417	1
2-Methylpyrene ¹	ND		ug/kg	1.44	0.378	1
4-Methylpyrene ¹	0.566	J	ug/kg	1.44	0.378	1
1-Methylpyrene ¹	ND		ug/kg	1.44	0.378	1
Pyrene	4.18		ug/kg	1.44	0.378	1
C1-Fluoranthenes/Pyrenes	4.03		ug/kg	1.44	0.378	1
C2-Fluoranthenes/Pyrenes	2.89		ug/kg	1.44	0.378	1
C3-Fluoranthenes/Pyrenes	2.47		ug/kg	1.44	0.378	1
C4-Fluoranthenes/Pyrenes	1.95		ug/kg	1.44	0.378	1
Naphthobenzothiophenes	ND		ug/kg	1.44	0.402	1
C1-Naphthobenzothiophenes	0.631	J	ug/kg	1.44	0.402	1
C2-Naphthobenzothiophenes	ND		ug/kg	1.44	0.402	1
C3-Naphthobenzothiophenes	ND		ug/kg	1.44	0.402	1
C4-Naphthobenzothiophenes	ND		ug/kg	1.44	0.402	1
Benz(a)anthracene	1.67		ug/kg	1.44	0.293	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-03
 Client ID: USMPDI-017SC-A-16-17-210429
 Sample Location: Not Specified

Date Collected: 04/29/20 09:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Chrysene	1.77		ug/kg	1.44	0.291	1
C1-Chrysenes	1.17	J	ug/kg	1.44	0.291	1
C2-Chrysenes BS	1.32	J	ug/kg	1.44	0.291	1
C3-Chrysenes	ND		ug/kg	1.44	0.291	1
C4-Chrysenes	ND		ug/kg	1.44	0.291	1
Benzo(b)fluoranthene	1.84		ug/kg	1.44	0.374	1
Benzo(j)+(k)fluoranthene	1.59		ug/kg	1.44	0.286	1
Benzo(a)fluoranthene	1.22	J	ug/kg	1.44	0.286	1
Benzo(e)pyrene	1.66		ug/kg	1.44	0.297	1
Benzo(a)pyrene	2.77		ug/kg	1.44	0.411	1
Perylene	350.		ug/kg	1.44	0.278	1
Indeno(1,2,3-cd)pyrene	2.09		ug/kg	1.44	0.390	1
Dibenz(a,h)+(a,c)anthracene	0.390	J	ug/kg	1.44	0.388	1
Benzo(g,h,i)perylene	2.85		ug/kg	1.44	0.382	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	65		50-130
Phenanthrene-d10	89		50-130
Benzo(a)pyrene-d12	94		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-04
 Client ID: USMPDI-028SC-A-05-6.3-210504
 Sample Location: Not Specified

Date Collected: 05/04/20 08:50
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/27/21 21:52
 Analyst: CC
 Percent Solids: 59%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	12.2		ug/kg	0.837	0.166	1
C1-Decalins	42.3		ug/kg	0.837	0.166	1
C2-Decalins	97.5		ug/kg	0.837	0.166	1
C3-Decalins	94.6		ug/kg	0.837	0.166	1
C4-Decalins	128.		ug/kg	0.837	0.166	1
Naphthalene	245.		ug/kg	1.67	0.481	1
C1-Naphthalenes	123.		ug/kg	1.67	0.481	1
C2-Naphthalenes	581.		ug/kg	1.67	0.481	1
C3-Naphthalenes	527.		ug/kg	1.67	0.481	1
C4-Naphthalenes	264.		ug/kg	1.67	0.481	1
2-Methylnaphthalene	122.		ug/kg	1.67	0.432	1
1-Methylnaphthalene	66.4		ug/kg	1.67	0.528	1
Benzothiophene	26.0		ug/kg	1.67	0.524	1
C1-Benzo(b)thiophenes	49.1		ug/kg	1.67	0.524	1
C2-Benzo(b)thiophenes	116.		ug/kg	1.67	0.524	1
C3-Benzo(b)thiophenes	93.2		ug/kg	1.67	0.524	1
C4-Benzo(b)thiophenes	56.2		ug/kg	1.67	0.524	1
Biphenyl	25.3		ug/kg	1.67	0.517	1
2,6-Dimethylnaphthalene	231.		ug/kg	1.67	0.398	1
Dibenzofuran	50.2		ug/kg	1.67	0.527	1
Acenaphthylene	111.		ug/kg	1.67	0.319	1
Acenaphthene	466.		ug/kg	1.67	0.295	1
2,3,5-Trimethylnaphthalene	72.7		ug/kg	1.67	0.274	1
Fluorene	344.		ug/kg	1.67	0.447	1
C1-Fluorenes	161.		ug/kg	1.67	0.447	1
C2-Fluorenes	189.		ug/kg	1.67	0.447	1
C3-Fluorenes	166.		ug/kg	1.67	0.447	1
Dibenzothiophene	268.		ug/kg	1.67	0.462	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-04
 Client ID: USMPDI-028SC-A-05-6.3-210504
 Sample Location: Not Specified

Date Collected: 05/04/20 08:50
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	67.8		ug/kg	1.67	0.462	1
2/3-Methyldibenzothiophene(2MDT)	76.4		ug/kg	1.67	0.462	1
1-Methyldibenzothiophene(1MDT)	20.9		ug/kg	1.67	0.462	1
C1-Dibenzothiophenes BS	192.		ug/kg	1.67	0.462	1
C2-Dibenzothiophenes	194.		ug/kg	1.67	0.462	1
C3-Dibenzothiophenes	134.		ug/kg	1.67	0.462	1
C4-Dibenzothiophenes	59.6		ug/kg	1.67	0.462	1
Phenanthrene	1880		ug/kg	1.67	0.555	1
3-Methylphenanthrene (3MP)	226.		ug/kg	1.67	0.555	1
2-Methylphenanthrene (2MP)	271.		ug/kg	1.67	0.555	1
2-Methylanthracene (2MA)	62.1		ug/kg	1.67	0.555	1
9/4-Methylphenanthrene (9MP)	160.		ug/kg	1.67	0.555	1
C1-Phenanthrenes/Anthracenes	858.		ug/kg	1.67	0.555	1
C2-Phenanthrenes/Anthr BS	627.		ug/kg	1.67	0.555	1
C3-Phenanthrenes/Anthracenes	352.		ug/kg	1.67	0.555	1
C4-Phenanthrenes/Anthracenes	164.		ug/kg	1.67	0.555	1
Retene	136.		ug/kg	1.67	0.411	1
Anthracene	185.		ug/kg	1.67	0.345	1
Carbazole	22.9		ug/kg	1.67	0.548	1
1-Methylphenanthrene	177.		ug/kg	1.67	0.442	1
Fluoranthene	1460		ug/kg	1.67	0.532	1
Benzo(b)fluorene	118.		ug/kg	1.67	0.485	1
7H-Benzo(c)fluorene	47.0		ug/kg	1.67	0.485	1
2-Methylpyrene ¹	101.		ug/kg	1.67	0.440	1
4-Methylpyrene ¹	91.0		ug/kg	1.67	0.440	1
1-Methylpyrene ¹	76.9		ug/kg	1.67	0.440	1
Pyrene	1850		ug/kg	1.67	0.440	1
C1-Fluoranthenes/Pyrenes	644.		ug/kg	1.67	0.440	1
C2-Fluoranthenes/Pyrenes	281.		ug/kg	1.67	0.440	1
C3-Fluoranthenes/Pyrenes	169.		ug/kg	1.67	0.440	1
C4-Fluoranthenes/Pyrenes	103.		ug/kg	1.67	0.440	1
Naphthobenzothiophenes	176.		ug/kg	1.67	0.468	1
C1-Naphthobenzothiophenes	90.4		ug/kg	1.67	0.468	1
C2-Naphthobenzothiophenes	72.7		ug/kg	1.67	0.468	1
C3-Naphthobenzothiophenes	51.2		ug/kg	1.67	0.468	1
C4-Naphthobenzothiophenes	24.7		ug/kg	1.67	0.468	1
Benz(a)anthracene	570.		ug/kg	1.67	0.341	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-04
 Client ID: USMPDI-028SC-A-05-6.3-210504
 Sample Location: Not Specified

Date Collected: 05/04/20 08:50
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Chrysene	681.		ug/kg	1.67	0.338	1
C1-Chrysenes	320.		ug/kg	1.67	0.338	1
C2-Chrysenes BS	218.		ug/kg	1.67	0.338	1
C3-Chrysenes	138.		ug/kg	1.67	0.338	1
C4-Chrysenes	66.4		ug/kg	1.67	0.338	1
Benzo(b)fluoranthene	604.		ug/kg	1.67	0.435	1
Benzo(j)+(k)fluoranthene	450.		ug/kg	1.67	0.332	1
Benzo(a)fluoranthene	139.		ug/kg	1.67	0.332	1
Benzo(e)pyrene	522.		ug/kg	1.67	0.345	1
Benzo(a)pyrene	884.		ug/kg	1.67	0.478	1
Perylene	401.		ug/kg	1.67	0.323	1
Indeno(1,2,3-cd)pyrene	668.		ug/kg	1.67	0.454	1
Dibenz(a,h)+(a,c)anthracene	142.		ug/kg	1.67	0.452	1
Benzo(g,h,i)perylene	904.		ug/kg	1.67	0.445	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	60		50-130
Phenanthrene-d10	72		50-130
Benzo(a)pyrene-d12	93		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-05
 Client ID: USMPDI-040SC-A-09-10-201103
 Sample Location: Not Specified

Date Collected: 11/03/20 16:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/22/21 17:43
 Analyst: CC
 Percent Solids: 67%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	41.9		ug/kg	0.923	0.184	1
C1-Decalins	179.		ug/kg	0.923	0.184	1
C2-Decalins	341.		ug/kg	0.923	0.184	1
C3-Decalins	245.		ug/kg	0.923	0.184	1
C4-Decalins	287.		ug/kg	0.923	0.184	1
Naphthalene	959.		ug/kg	1.85	0.531	1
C1-Naphthalenes	138.		ug/kg	1.85	0.531	1
C2-Naphthalenes	161.		ug/kg	1.85	0.531	1
C3-Naphthalenes	217.		ug/kg	1.85	0.531	1
C4-Naphthalenes	179.		ug/kg	1.85	0.531	1
2-Methylnaphthalene	143.		ug/kg	1.85	0.476	1
1-Methylnaphthalene	69.0		ug/kg	1.85	0.582	1
Benzothiophene	48.8		ug/kg	1.85	0.578	1
C1-Benzo(b)thiophenes	15.2		ug/kg	1.85	0.578	1
C2-Benzo(b)thiophenes	27.2		ug/kg	1.85	0.578	1
C3-Benzo(b)thiophenes	45.5		ug/kg	1.85	0.578	1
C4-Benzo(b)thiophenes	39.5		ug/kg	1.85	0.578	1
Biphenyl	129.		ug/kg	1.85	0.571	1
2,6-Dimethylnaphthalene	80.8		ug/kg	1.85	0.439	1
Dibenzofuran	53.6		ug/kg	1.85	0.582	1
Acenaphthylene	182.		ug/kg	1.85	0.352	1
Acenaphthene	623.		ug/kg	1.85	0.326	1
2,3,5-Trimethylnaphthalene	29.7		ug/kg	1.85	0.302	1
Fluorene	501.		ug/kg	1.85	0.492	1
C1-Fluorenes	205.		ug/kg	1.85	0.492	1
C2-Fluorenes	184.		ug/kg	1.85	0.492	1
C3-Fluorenes	177.		ug/kg	1.85	0.492	1
Dibenzothiophene	716.		ug/kg	1.85	0.509	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-05
 Client ID: USMPDI-040SC-A-09-10-201103
 Sample Location: Not Specified

Date Collected: 11/03/20 16:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	102.		ug/kg	1.85	0.509	1
2/3-Methyldibenzothiophene(2MDT)	123.		ug/kg	1.85	0.509	1
1-Methyldibenzothiophene(1MDT)	32.9		ug/kg	1.85	0.509	1
C1-Dibenzothiophenes BS	311.		ug/kg	1.85	0.509	1
C2-Dibenzothiophenes	233.		ug/kg	1.85	0.509	1
C3-Dibenzothiophenes	162.		ug/kg	1.85	0.509	1
C4-Dibenzothiophenes	78.9		ug/kg	1.85	0.509	1
3-Methylphenanthrene (3MP)	361.		ug/kg	1.85	0.612	1
2-Methylphenanthrene (2MP)	435.		ug/kg	1.85	0.612	1
2-Methylanthracene (2MA)	113.		ug/kg	1.85	0.612	1
9/4-Methylphenanthrene (9MP)	355.		ug/kg	1.85	0.612	1
C1-Phenanthrenes/Anthracenes	1520		ug/kg	1.85	0.612	1
C2-Phenanthrenes/Anthr BS	760.		ug/kg	1.85	0.612	1
C3-Phenanthrenes/Anthracenes	414.		ug/kg	1.85	0.612	1
C4-Phenanthrenes/Anthracenes	184.		ug/kg	1.85	0.612	1
Anthracene	877.		ug/kg	1.85	0.381	1
Carbazole	49.8		ug/kg	1.85	0.604	1
1-Methylphenanthrene	336.		ug/kg	1.85	0.488	1
Benzo(b)fluorene	510.		ug/kg	1.85	0.535	1
7H-Benzo(c)fluorene	239.		ug/kg	1.85	0.535	1
2-Methylpyrene ¹	250.		ug/kg	1.85	0.486	1
4-Methylpyrene ¹	229.		ug/kg	1.85	0.486	1
1-Methylpyrene ¹	264.		ug/kg	1.85	0.486	1
C1-Fluoranthenes/Pyrenes	2240		ug/kg	1.85	0.486	1
C2-Fluoranthenes/Pyrenes	481.		ug/kg	1.85	0.486	1
C3-Fluoranthenes/Pyrenes	229.		ug/kg	1.85	0.486	1
C4-Fluoranthenes/Pyrenes	156.		ug/kg	1.85	0.486	1
Naphthobenzothiophenes	854.		ug/kg	1.85	0.517	1
C1-Naphthobenzothiophenes	239.		ug/kg	1.85	0.517	1
C2-Naphthobenzothiophenes	128.		ug/kg	1.85	0.517	1
C3-Naphthobenzothiophenes	110.		ug/kg	1.85	0.517	1
C4-Naphthobenzothiophenes	42.2		ug/kg	1.85	0.517	1
Benz(a)anthracene	3020	E	ug/kg	1.85	0.376	1
Chrysene	3340	E	ug/kg	1.85	0.373	1
C1-Chrysenes	781.		ug/kg	1.85	0.373	1
C2-Chrysenes BS	334.		ug/kg	1.85	0.373	1
C3-Chrysenes	204.		ug/kg	1.85	0.373	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-05
Client ID: USMPDI-040SC-A-09-10-201103
Sample Location: Not Specified

Date Collected: 11/03/20 16:30
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	131.		ug/kg	1.85	0.373	1
Benzo(b)fluoranthene	3500	E	ug/kg	1.85	0.480	1
Benzo(j)+(k)fluoranthene	2140		ug/kg	1.85	0.366	1
Benzo(a)fluoranthene	764.		ug/kg	1.85	0.366	1
Benzo(e)pyrene	2890	E	ug/kg	1.85	0.381	1
Benzo(a)pyrene	5470	E	ug/kg	1.85	0.527	1
Perylene	1640		ug/kg	1.85	0.356	1
Indeno(1,2,3-cd)pyrene	3990	E	ug/kg	1.85	0.501	1
Dibenz(a,h)+(a,c)anthracene	641.		ug/kg	1.85	0.499	1
Benzo(g,h,i)perylene	5930	E	ug/kg	1.85	0.490	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	76		50-130
Phenanthrene-d10	80		50-130
Benzo(a)pyrene-d12	96		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-05 D
 Client ID: USMPDI-040SC-A-09-10-201103
 Sample Location: Not Specified

Date Collected: 11/03/20 16:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 10:55
 Analyst: CC
 Percent Solids: 67%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	6510		ug/kg	18.5	6.12	10
Retene	84.8		ug/kg	18.5	4.53	10
Fluoranthene	8270		ug/kg	18.5	5.87	10
Pyrene	10400		ug/kg	18.5	4.86	10
Benz(a)anthracene	2560		ug/kg	18.5	3.76	10
Chrysene	2930		ug/kg	18.5	3.73	10
Benzo(b)fluoranthene	2850		ug/kg	18.5	4.80	10
Benzo(e)pyrene	2410		ug/kg	18.5	3.81	10
Benzo(a)pyrene	4510		ug/kg	18.5	5.27	10
Indeno(1,2,3-cd)pyrene	3220		ug/kg	18.5	5.01	10
Benzo(g,h,i)perylene	4800		ug/kg	18.5	4.90	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	57		50-130
Phenanthrene-d10	81		50-130
Benzo(a)pyrene-d12	84		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-06
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/22/21 19:11
 Analyst: CC
 Percent Solids: 62%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	128.		ug/kg	1.32	0.263	1
C1-Decalins	271.		ug/kg	1.32	0.263	1
C2-Decalins	440.		ug/kg	1.32	0.263	1
C3-Decalins	369.		ug/kg	1.32	0.263	1
C4-Decalins	449.		ug/kg	1.32	0.263	1
Naphthalene	2770		ug/kg	2.65	0.761	1
C1-Naphthalenes	2060		ug/kg	2.65	0.761	1
C2-Naphthalenes	2200		ug/kg	2.65	0.761	1
C3-Naphthalenes	1650		ug/kg	2.65	0.761	1
C4-Naphthalenes	880.		ug/kg	2.65	0.761	1
2-Methylnaphthalene	1800		ug/kg	2.65	0.683	1
1-Methylnaphthalene	1370		ug/kg	2.65	0.834	1
Benzothiophene	225.		ug/kg	2.65	0.830	1
C1-Benzo(b)thiophenes	209.		ug/kg	2.65	0.830	1
C2-Benzo(b)thiophenes	340.		ug/kg	2.65	0.830	1
C3-Benzo(b)thiophenes	345.		ug/kg	2.65	0.830	1
C4-Benzo(b)thiophenes	238.		ug/kg	2.65	0.830	1
Biphenyl	447.		ug/kg	2.65	0.818	1
2,6-Dimethylnaphthalene	931.		ug/kg	2.65	0.630	1
Dibenzofuran	229.		ug/kg	2.65	0.834	1
Acenaphthylene	224.		ug/kg	2.65	0.505	1
Acenaphthene	2860		ug/kg	2.65	0.467	1
2,3,5-Trimethylnaphthalene	225.		ug/kg	2.65	0.433	1
Fluorene	1730		ug/kg	2.65	0.706	1
C1-Fluorenes	543.		ug/kg	2.65	0.706	1
C2-Fluorenes	536.		ug/kg	2.65	0.706	1
C3-Fluorenes	485.		ug/kg	2.65	0.706	1
Dibenzothiophene	1450		ug/kg	2.65	0.730	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-06
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	182.		ug/kg	2.65	0.730	1
2/3-Methyldibenzothiophene(2MDT)	206.		ug/kg	2.65	0.730	1
1-Methyldibenzothiophene(1MDT)	63.1		ug/kg	2.65	0.730	1
C1-Dibenzothiophenes BS	545.		ug/kg	2.65	0.730	1
C2-Dibenzothiophenes	455.		ug/kg	2.65	0.730	1
C3-Dibenzothiophenes	323.		ug/kg	2.65	0.730	1
C4-Dibenzothiophenes	150.		ug/kg	2.65	0.730	1
3-Methylphenanthrene (3MP)	665.		ug/kg	2.65	0.878	1
2-Methylphenanthrene (2MP)	793.		ug/kg	2.65	0.878	1
2-Methylanthracene (2MA)	225.		ug/kg	2.65	0.878	1
9/4-Methylphenanthrene (9MP)	500.		ug/kg	2.65	0.878	1
C1-Phenanthrenes/Anthracenes	2610		ug/kg	2.65	0.878	1
C2-Phenanthrenes/Anthr BS	1420		ug/kg	2.65	0.878	1
C3-Phenanthrenes/Anthracenes	922.		ug/kg	2.65	0.878	1
C4-Phenanthrenes/Anthracenes	962.		ug/kg	2.65	0.878	1
Anthracene	1850		ug/kg	2.65	0.546	1
Carbazole	137.		ug/kg	2.65	0.866	1
1-Methylphenanthrene	549.		ug/kg	2.65	0.699	1
Benzo(b)fluorene	366.		ug/kg	2.65	0.767	1
7H-Benzo(c)fluorene	186.		ug/kg	2.65	0.767	1
2-Methylpyrene ¹	248.		ug/kg	2.65	0.697	1
4-Methylpyrene ¹	217.		ug/kg	2.65	0.697	1
1-Methylpyrene ¹	219.		ug/kg	2.65	0.697	1
C1-Fluoranthenes/Pyrenes	1860		ug/kg	2.65	0.697	1
C2-Fluoranthenes/Pyrenes	564.		ug/kg	2.65	0.697	1
C3-Fluoranthenes/Pyrenes	320.		ug/kg	2.65	0.697	1
C4-Fluoranthenes/Pyrenes	226.		ug/kg	2.65	0.697	1
Naphthobenzothiophenes	583.		ug/kg	2.65	0.741	1
C1-Naphthobenzothiophenes	198.		ug/kg	2.65	0.741	1
C2-Naphthobenzothiophenes	137.		ug/kg	2.65	0.741	1
C3-Naphthobenzothiophenes	109.		ug/kg	2.65	0.741	1
C4-Naphthobenzothiophenes	61.4		ug/kg	2.65	0.741	1
Benz(a)anthracene	1720		ug/kg	2.65	0.540	1
Chrysene	1980		ug/kg	2.65	0.535	1
C1-Chrysenes	624.		ug/kg	2.65	0.535	1
C2-Chrysenes BS	356.		ug/kg	2.65	0.535	1
C3-Chrysenes	251.		ug/kg	2.65	0.535	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-06
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	136.		ug/kg	2.65	0.535	1
Benzo(b)fluoranthene	1490		ug/kg	2.65	0.689	1
Benzo(j)+(k)fluoranthene	1240		ug/kg	2.65	0.526	1
Benzo(a)fluoranthene	356.		ug/kg	2.65	0.526	1
Benzo(e)pyrene	1380		ug/kg	2.65	0.546	1
Benzo(a)pyrene	2460		ug/kg	2.65	0.756	1
Perylene	690.		ug/kg	2.65	0.511	1
Indeno(1,2,3-cd)pyrene	1690		ug/kg	2.65	0.719	1
Dibenz(a,h)+(a,c)anthracene	330.		ug/kg	2.65	0.716	1
Benzo(g,h,i)perylene	2320		ug/kg	2.65	0.704	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	77		50-130
Phenanthrene-d10	79		50-130
Benzo(a)pyrene-d12	91		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-06 D
 Client ID: USMPDI-044SC-A-15-16-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 03:40
 Analyst: CC
 Percent Solids: 62%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	11000		ug/kg	13.2	4.39	5
Retene	1790		ug/kg	13.2	3.25	5
Fluoranthene	5870		ug/kg	13.2	4.21	5
Pyrene	7090		ug/kg	13.2	3.48	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	67		50-130
Phenanthrene-d10	82		50-130
Benzo(a)pyrene-d12	86		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-07
 Client ID: USMPDI-044SC-A-16-17-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/22/21 22:09
 Analyst: CC
 Percent Solids: 69%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	22.8		ug/kg	0.710	0.141	1
C1-Decalins	49.6		ug/kg	0.710	0.141	1
C2-Decalins	77.9		ug/kg	0.710	0.141	1
C3-Decalins	65.2		ug/kg	0.710	0.141	1
C4-Decalins	77.7		ug/kg	0.710	0.141	1
Naphthalene	404.		ug/kg	1.42	0.408	1
C1-Naphthalenes	170.		ug/kg	1.42	0.408	1
C2-Naphthalenes	550.		ug/kg	1.42	0.408	1
C3-Naphthalenes	580.		ug/kg	1.42	0.408	1
C4-Naphthalenes	278.		ug/kg	1.42	0.408	1
2-Methylnaphthalene	144.		ug/kg	1.42	0.366	1
1-Methylnaphthalene	118.		ug/kg	1.42	0.448	1
Benzothiophene	35.7		ug/kg	1.42	0.445	1
C1-Benzo(b)thiophenes	37.4		ug/kg	1.42	0.445	1
C2-Benzo(b)thiophenes	96.9		ug/kg	1.42	0.445	1
C3-Benzo(b)thiophenes	124.		ug/kg	1.42	0.445	1
C4-Benzo(b)thiophenes	76.4		ug/kg	1.42	0.445	1
Biphenyl	60.6		ug/kg	1.42	0.439	1
2,6-Dimethylnaphthalene	262.		ug/kg	1.42	0.338	1
Dibenzofuran	72.1		ug/kg	1.42	0.447	1
Acenaphthylene	86.1		ug/kg	1.42	0.271	1
Acenaphthene	878.		ug/kg	1.42	0.250	1
2,3,5-Trimethylnaphthalene	78.2		ug/kg	1.42	0.232	1
Fluorene	644.		ug/kg	1.42	0.379	1
C1-Fluorenes	230.		ug/kg	1.42	0.379	1
C2-Fluorenes	182.		ug/kg	1.42	0.379	1
C3-Fluorenes	154.		ug/kg	1.42	0.379	1
Dibenzothiophene	643.		ug/kg	1.42	0.392	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-07
 Client ID: USMPDI-044SC-A-16-17-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	67.4		ug/kg	1.42	0.392	1
2/3-Methyl dibenzothiophene(2MDT)	73.3		ug/kg	1.42	0.392	1
1-Methyl dibenzothiophene(1MDT)	22.5		ug/kg	1.42	0.392	1
C1-Dibenzothiophenes BS	197.		ug/kg	1.42	0.392	1
C2-Dibenzothiophenes	149.		ug/kg	1.42	0.392	1
C3-Dibenzothiophenes	102.		ug/kg	1.42	0.392	1
C4-Dibenzothiophenes	47.6		ug/kg	1.42	0.392	1
3-Methylphenanthrene (3MP)	230.		ug/kg	1.42	0.471	1
2-Methylphenanthrene (2MP)	272.		ug/kg	1.42	0.471	1
2-Methylanthracene (2MA)	79.3		ug/kg	1.42	0.471	1
9/4-Methylphenanthrene (9MP)	194.		ug/kg	1.42	0.471	1
C1-Phenanthrenes/Anthracenes	930.		ug/kg	1.42	0.471	1
C2-Phenanthrenes/Anthr BS	476.		ug/kg	1.42	0.471	1
C3-Phenanthrenes/Anthracenes	256.		ug/kg	1.42	0.471	1
C4-Phenanthrenes/Anthracenes	115.		ug/kg	1.42	0.471	1
Anthracene	763.		ug/kg	1.42	0.293	1
Carbazole	27.0		ug/kg	1.42	0.465	1
1-Methylphenanthrene	204.		ug/kg	1.42	0.375	1
Benzo(b)fluorene	176.		ug/kg	1.42	0.412	1
7H-Benzo(c)fluorene	58.6		ug/kg	1.42	0.412	1
2-Methylpyrene ¹	99.5		ug/kg	1.42	0.374	1
4-Methylpyrene ¹	96.2		ug/kg	1.42	0.374	1
1-Methylpyrene ¹	97.8		ug/kg	1.42	0.374	1
C1-Fluoranthenes/Pyrenes	797.		ug/kg	1.42	0.374	1
C2-Fluoranthenes/Pyrenes	214.		ug/kg	1.42	0.374	1
C3-Fluoranthenes/Pyrenes	112.		ug/kg	1.42	0.374	1
C4-Fluoranthenes/Pyrenes	78.4		ug/kg	1.42	0.374	1
Naphthobenzothiophenes	292.		ug/kg	1.42	0.398	1
C1-Naphthobenzothiophenes	78.5		ug/kg	1.42	0.398	1
C2-Naphthobenzothiophenes	49.8		ug/kg	1.42	0.398	1
C3-Naphthobenzothiophenes	42.5		ug/kg	1.42	0.398	1
C4-Naphthobenzothiophenes	18.4		ug/kg	1.42	0.398	1
Benz(a)anthracene	923.		ug/kg	1.42	0.290	1
Chrysene	1090		ug/kg	1.42	0.287	1
C1-Chrysenes	286.		ug/kg	1.42	0.287	1
C2-Chrysenes BS	150.		ug/kg	1.42	0.287	1
C3-Chrysenes	94.8		ug/kg	1.42	0.287	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-07
Client ID: USMPDI-044SC-A-16-17-201104
Sample Location: Not Specified

Date Collected: 11/04/20 08:45
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	59.4		ug/kg	1.42	0.287	1
Benzo(b)fluoranthene	1060		ug/kg	1.42	0.370	1
Benzo(j)+(k)fluoranthene	692.		ug/kg	1.42	0.282	1
Benzo(a)fluoranthene	203.		ug/kg	1.42	0.282	1
Benzo(e)pyrene	960.		ug/kg	1.42	0.293	1
Benzo(a)pyrene	1720		ug/kg	1.42	0.406	1
Perylene	750.		ug/kg	1.42	0.274	1
Indeno(1,2,3-cd)pyrene	1320		ug/kg	1.42	0.386	1
Dibenz(a,h)+(a,c)anthracene	185.		ug/kg	1.42	0.384	1
Benzo(g,h,i)perylene	2100	E	ug/kg	1.42	0.377	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	67		50-130
Phenanthrene-d10	72		50-130
Benzo(a)pyrene-d12	92		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-07 D
 Client ID: USMPDI-044SC-A-16-17-201104
 Sample Location: Not Specified

Date Collected: 11/04/20 08:45
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 05:07
 Analyst: CC
 Percent Solids: 69%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	5300		ug/kg	7.10	2.35	5
Retene	67.9		ug/kg	7.10	1.74	5
Fluoranthene	3700		ug/kg	7.10	2.26	5
Pyrene	4780		ug/kg	7.10	1.87	5
Benzo(g,h,i)perylene	1830		ug/kg	7.10	1.89	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	59		50-130
Phenanthrene-d10	80		50-130
Benzo(a)pyrene-d12	86		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-08
 Client ID: USMPDI-047SC-A-05-06-201030
 Sample Location: Not Specified

Date Collected: 10/30/20 09:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/27/21 23:19
 Analyst: CC
 Percent Solids: 85%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	0.185	J	ug/kg	0.584	0.116	1
C1-Decalins	0.868		ug/kg	0.584	0.116	1
C2-Decalins	2.10		ug/kg	0.584	0.116	1
C3-Decalins	2.11		ug/kg	0.584	0.116	1
C4-Decalins	4.19		ug/kg	0.584	0.116	1
Naphthalene	14.7		ug/kg	1.17	0.336	1
C1-Naphthalenes	5.02		ug/kg	1.17	0.336	1
C2-Naphthalenes	7.93		ug/kg	1.17	0.336	1
C3-Naphthalenes	25.6		ug/kg	1.17	0.336	1
C4-Naphthalenes	20.3		ug/kg	1.17	0.336	1
2-Methylnaphthalene	5.28		ug/kg	1.17	0.301	1
1-Methylnaphthalene	2.47		ug/kg	1.17	0.368	1
Benzothiophene	1.13	J	ug/kg	1.17	0.366	1
C1-Benzo(b)thiophenes	1.53		ug/kg	1.17	0.366	1
C2-Benzo(b)thiophenes	2.84		ug/kg	1.17	0.366	1
C3-Benzo(b)thiophenes	6.42		ug/kg	1.17	0.366	1
C4-Benzo(b)thiophenes	4.92		ug/kg	1.17	0.366	1
Biphenyl	2.09		ug/kg	1.17	0.361	1
2,6-Dimethylnaphthalene	1.79		ug/kg	1.17	0.278	1
Dibenzofuran	3.43		ug/kg	1.17	0.368	1
Acenaphthylene	12.3		ug/kg	1.17	0.223	1
Acenaphthene	43.9		ug/kg	1.17	0.206	1
2,3,5-Trimethylnaphthalene	3.53		ug/kg	1.17	0.191	1
Fluorene	33.6		ug/kg	1.17	0.312	1
C1-Fluorenes	15.7		ug/kg	1.17	0.312	1
C2-Fluorenes	20.4		ug/kg	1.17	0.312	1
C3-Fluorenes	21.1		ug/kg	1.17	0.312	1
Dibenzothiophene	41.6		ug/kg	1.17	0.322	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-08
 Client ID: USMPDI-047SC-A-05-06-201030
 Sample Location: Not Specified

Date Collected: 10/30/20 09:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	8.69		ug/kg	1.17	0.322	1
2/3-Methyl dibenzothiophene(2MDT)	7.86		ug/kg	1.17	0.322	1
1-Methyl dibenzothiophene(1MDT)	2.23		ug/kg	1.17	0.322	1
C1-Dibenzothiophenes BS	21.6		ug/kg	1.17	0.322	1
C2-Dibenzothiophenes	22.9		ug/kg	1.17	0.322	1
C3-Dibenzothiophenes	15.1		ug/kg	1.17	0.322	1
C4-Dibenzothiophenes	6.18		ug/kg	1.17	0.322	1
Phenanthrene	199.		ug/kg	1.17	0.387	1
3-Methylphenanthrene (3MP)	19.2		ug/kg	1.17	0.387	1
2-Methylphenanthrene (2MP)	17.9		ug/kg	1.17	0.387	1
2-Methylanthracene (2MA)	7.62		ug/kg	1.17	0.387	1
9/4-Methylphenanthrene (9MP)	14.8		ug/kg	1.17	0.387	1
C1-Phenanthrenes/Anthracenes	78.0		ug/kg	1.17	0.387	1
C2-Phenanthrenes/Anthr BS	68.7		ug/kg	1.17	0.387	1
C3-Phenanthrenes/Anthracenes	37.2		ug/kg	1.17	0.387	1
C4-Phenanthrenes/Anthracenes	14.9		ug/kg	1.17	0.387	1
Retene	8.08		ug/kg	1.17	0.287	1
Anthracene	34.2		ug/kg	1.17	0.241	1
Carbazole	15.6		ug/kg	1.17	0.382	1
1-Methylphenanthrene	22.4		ug/kg	1.17	0.308	1
Fluoranthene	346.		ug/kg	1.17	0.371	1
Benzo(b)fluorene	31.5		ug/kg	1.17	0.338	1
7H-Benzo(c)fluorene	9.80		ug/kg	1.17	0.338	1
2-Methylpyrene ¹	17.5		ug/kg	1.17	0.307	1
4-Methylpyrene ¹	15.6		ug/kg	1.17	0.307	1
1-Methylpyrene ¹	13.8		ug/kg	1.17	0.307	1
Pyrene	424.		ug/kg	1.17	0.307	1
C1-Fluoranthenes/Pyrenes	131.		ug/kg	1.17	0.307	1
C2-Fluoranthenes/Pyrenes	43.1		ug/kg	1.17	0.307	1
C3-Fluoranthenes/Pyrenes	21.4		ug/kg	1.17	0.307	1
C4-Fluoranthenes/Pyrenes	13.7		ug/kg	1.17	0.307	1
Naphthobenzothiophenes	37.8		ug/kg	1.17	0.327	1
C1-Naphthobenzothiophenes	14.0		ug/kg	1.17	0.327	1
C2-Naphthobenzothiophenes	8.67		ug/kg	1.17	0.327	1
C3-Naphthobenzothiophenes	6.44		ug/kg	1.17	0.327	1
C4-Naphthobenzothiophenes	3.31		ug/kg	1.17	0.327	1
Benz(a)anthracene	137.		ug/kg	1.17	0.238	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-08
 Client ID: USMPDI-047SC-A-05-06-201030
 Sample Location: Not Specified

Date Collected: 10/30/20 09:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Chrysene	145.		ug/kg	1.17	0.236	1
C1-Chrysenes	49.0		ug/kg	1.17	0.236	1
C2-Chrysenes BS	25.2		ug/kg	1.17	0.236	1
C3-Chrysenes	16.6		ug/kg	1.17	0.236	1
C4-Chrysenes	10.1		ug/kg	1.17	0.236	1
Benzo(b)fluoranthene	136.		ug/kg	1.17	0.304	1
Benzo(j)+(k)fluoranthene	106.		ug/kg	1.17	0.232	1
Benzo(a)fluoranthene	26.6		ug/kg	1.17	0.232	1
Benzo(e)pyrene	107.		ug/kg	1.17	0.241	1
Benzo(a)pyrene	198.		ug/kg	1.17	0.334	1
Perylene	58.0		ug/kg	1.17	0.226	1
Indeno(1,2,3-cd)pyrene	126.		ug/kg	1.17	0.317	1
Dibenz(a,h)+(a,c)anthracene	28.5		ug/kg	1.17	0.316	1
Benzo(g,h,i)perylene	161.		ug/kg	1.17	0.310	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	70		50-130
Phenanthrene-d10	97		50-130
Benzo(a)pyrene-d12	103		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-09
 Client ID: USMPDI-056SC-A-05-06-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/23/21 01:05
 Analyst: CC
 Percent Solids: 54%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	15.1		ug/kg	1.50	0.299	1
C1-Decalins	67.2		ug/kg	1.50	0.299	1
C2-Decalins	192.		ug/kg	1.50	0.299	1
C3-Decalins	238.		ug/kg	1.50	0.299	1
C4-Decalins	382.		ug/kg	1.50	0.299	1
Naphthalene	559.		ug/kg	3.00	0.864	1
C1-Naphthalenes	199.		ug/kg	3.00	0.864	1
C2-Naphthalenes	366.		ug/kg	3.00	0.864	1
C3-Naphthalenes	485.		ug/kg	3.00	0.864	1
C4-Naphthalenes	377.		ug/kg	3.00	0.864	1
2-Methylnaphthalene	213.		ug/kg	3.00	0.775	1
1-Methylnaphthalene	92.1		ug/kg	3.00	0.947	1
Benzothiophene	42.7		ug/kg	3.00	0.941	1
C1-Benzo(b)thiophenes	30.6		ug/kg	3.00	0.941	1
C2-Benzo(b)thiophenes	55.0		ug/kg	3.00	0.941	1
C3-Benzo(b)thiophenes	91.6		ug/kg	3.00	0.941	1
C4-Benzo(b)thiophenes	85.9		ug/kg	3.00	0.941	1
Biphenyl	76.3		ug/kg	3.00	0.929	1
2,6-Dimethylnaphthalene	184.		ug/kg	3.00	0.714	1
Dibenzofuran	151.		ug/kg	3.00	0.947	1
Acenaphthylene	286.		ug/kg	3.00	0.574	1
Acenaphthene	683.		ug/kg	3.00	0.530	1
2,3,5-Trimethylnaphthalene	63.2		ug/kg	3.00	0.492	1
Fluorene	445.		ug/kg	3.00	0.802	1
C1-Fluorenes	193.		ug/kg	3.00	0.802	1
C2-Fluorenes	302.		ug/kg	3.00	0.802	1
C3-Fluorenes	351.		ug/kg	3.00	0.802	1
Dibenzothiophene	353.		ug/kg	3.00	0.829	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-09
 Client ID: USMPDI-056SC-A-05-06-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	93.3		ug/kg	3.00	0.829	1
2/3-Methyl dibenzothiophene(2MDT)	106.		ug/kg	3.00	0.829	1
1-Methyl dibenzothiophene(1MDT)	28.3		ug/kg	3.00	0.829	1
C1-Dibenzothiophenes BS	269.		ug/kg	3.00	0.829	1
C2-Dibenzothiophenes	349.		ug/kg	3.00	0.829	1
C3-Dibenzothiophenes	316.		ug/kg	3.00	0.829	1
C4-Dibenzothiophenes	163.		ug/kg	3.00	0.829	1
3-Methylphenanthrene (3MP)	317.		ug/kg	3.00	0.996	1
2-Methylphenanthrene (2MP)	411.		ug/kg	3.00	0.996	1
2-Methylanthracene (2MA)	117.		ug/kg	3.00	0.996	1
9/4-Methylphenanthrene (9MP)	274.		ug/kg	3.00	0.996	1
C1-Phenanthrenes/Anthracenes	1340		ug/kg	3.00	0.996	1
C2-Phenanthrenes/Anthr BS	1150		ug/kg	3.00	0.996	1
C3-Phenanthrenes/Anthracenes	739.		ug/kg	3.00	0.996	1
C4-Phenanthrenes/Anthracenes	335.		ug/kg	3.00	0.996	1
Anthracene	496.		ug/kg	3.00	0.620	1
Carbazole	144.		ug/kg	3.00	0.983	1
1-Methylphenanthrene	281.		ug/kg	3.00	0.794	1
Benzo(b)fluorene	407.		ug/kg	3.00	0.871	1
7H-Benzo(c)fluorene	142.		ug/kg	3.00	0.871	1
2-Methylpyrene ¹	270.		ug/kg	3.00	0.790	1
4-Methylpyrene ¹	234.		ug/kg	3.00	0.790	1
1-Methylpyrene ¹	211.		ug/kg	3.00	0.790	1
C1-Fluoranthenes/Pyrenes	1850		ug/kg	3.00	0.790	1
C2-Fluoranthenes/Pyrenes	780.		ug/kg	3.00	0.790	1
C3-Fluoranthenes/Pyrenes	504.		ug/kg	3.00	0.790	1
C4-Fluoranthenes/Pyrenes	340.		ug/kg	3.00	0.790	1
Naphthobenzothiophenes	545.		ug/kg	3.00	0.841	1
C1-Naphthobenzothiophenes	271.		ug/kg	3.00	0.841	1
C2-Naphthobenzothiophenes	222.		ug/kg	3.00	0.841	1
C3-Naphthobenzothiophenes	172.		ug/kg	3.00	0.841	1
C4-Naphthobenzothiophenes	86.7		ug/kg	3.00	0.841	1
Benz(a)anthracene	2160		ug/kg	3.00	0.613	1
Chrysene	2340		ug/kg	3.00	0.608	1
C1-Chrysenes	999.		ug/kg	3.00	0.608	1
C2-Chrysenes BS	670.		ug/kg	3.00	0.608	1
C3-Chrysenes	455.		ug/kg	3.00	0.608	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-09
Client ID: USMPDI-056SC-A-05-06-201107
Sample Location: Not Specified

Date Collected: 11/07/20 13:30
Date Received: 11/05/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	218.		ug/kg	3.00	0.608	1
Benzo(b)fluoranthene	2570		ug/kg	3.00	0.782	1
Benzo(j)+(k)fluoranthene	1610		ug/kg	3.00	0.596	1
Benzo(a)fluoranthene	493.		ug/kg	3.00	0.596	1
Benzo(e)pyrene	1980		ug/kg	3.00	0.620	1
Benzo(a)pyrene	3480		ug/kg	3.00	0.858	1
Perylene	1060		ug/kg	3.00	0.580	1
Indeno(1,2,3-cd)pyrene	2450		ug/kg	3.00	0.816	1
Dibenz(a,h)+(a,c)anthracene	550.		ug/kg	3.00	0.812	1
Benzo(g,h,i)perylene	3250		ug/kg	3.00	0.798	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	72		50-130
Phenanthrene-d10	78		50-130
Benzo(a)pyrene-d12	102		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-09 D
 Client ID: USMPDI-056SC-A-05-06-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 09:28
 Analyst: CC
 Percent Solids: 54%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	3410		ug/kg	6.01	1.99	2
Retene	110.		ug/kg	6.01	1.47	2
Fluoranthene	4200		ug/kg	6.01	1.91	2
Pyrene	4920		ug/kg	6.01	1.58	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	66		50-130
Phenanthrene-d10	83		50-130
Benzo(a)pyrene-d12	99		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-10
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 01/07/22 17:58
 Analyst: CC
 Percent Solids: 76%

Extraction Method: ALPHA OP-013
 Extraction Date: 01/05/22 20:00
 Cleanup Method: EPA 3611B
 Cleanup Date: 01/07/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	3.42	J	ug/kg	0.660	0.131	1
C1-Decalins	11.0		ug/kg	0.660	0.131	1
C2-Decalins	22.4		ug/kg	0.660	0.131	1
C3-Decalins	22.9		ug/kg	0.660	0.131	1
C4-Decalins	29.4		ug/kg	0.660	0.131	1
Naphthalene	99.6		ug/kg	1.32	0.379	1
C1-Naphthalenes	32.8		ug/kg	1.32	0.379	1
C2-Naphthalenes	53.4		ug/kg	1.32	0.379	1
C3-Naphthalenes	104.		ug/kg	1.32	0.379	1
C4-Naphthalenes	77.7		ug/kg	1.32	0.379	1
2-Methylnaphthalene	33.4		ug/kg	1.32	0.340	1
1-Methylnaphthalene	19.6		ug/kg	1.32	0.416	1
Benzothiophene	7.30		ug/kg	1.32	0.413	1
C1-Benzo(b)thiophenes	6.86		ug/kg	1.32	0.413	1
C2-Benzo(b)thiophenes	14.0		ug/kg	1.32	0.413	1
C3-Benzo(b)thiophenes	24.5		ug/kg	1.32	0.413	1
C4-Benzo(b)thiophenes	19.8		ug/kg	1.32	0.413	1
Biphenyl	13.7		ug/kg	1.32	0.408	1
2,6-Dimethylnaphthalene	21.2		ug/kg	1.32	0.314	1
Dibenzofuran	35.7		ug/kg	1.32	0.415	1
Acenaphthylene	40.3		ug/kg	1.32	0.252	1
Acenaphthene	404.		ug/kg	1.32	0.232	1
2,3,5-Trimethylnaphthalene	15.8		ug/kg	1.32	0.216	1
Fluorene	133.		ug/kg	1.32	0.352	1
C1-Fluorenes	75.0		ug/kg	1.32	0.352	1
C2-Fluorenes	72.4		ug/kg	1.32	0.352	1
C3-Fluorenes	59.4		ug/kg	1.32	0.352	1
Dibenzothiophene	230.		ug/kg	1.32	0.364	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-10
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyldibenzothiophene(4MDT)	27.3		ug/kg	1.32	0.364	1
2/3-Methyldibenzothiophene(2MDT)	32.4		ug/kg	1.32	0.364	1
1-Methyldibenzothiophene(1MDT)	9.55		ug/kg	1.32	0.364	1
C1-Dibenzothiophenes BS	83.9		ug/kg	1.32	0.364	1
C2-Dibenzothiophenes	62.6		ug/kg	1.32	0.364	1
C3-Dibenzothiophenes	44.6		ug/kg	1.32	0.364	1
C4-Dibenzothiophenes	20.0		ug/kg	1.32	0.364	1
Phenanthrene	2350	E	ug/kg	1.32	0.437	1
3-Methylphenanthrene (3MP)	120.		ug/kg	1.32	0.437	1
2-Methylphenanthrene (2MP)	145.		ug/kg	1.32	0.437	1
2-Methylanthracene (2MA)	38.1		ug/kg	1.32	0.437	1
9/4-Methylphenanthrene (9MP)	102.		ug/kg	1.32	0.437	1
C1-Phenanthrenes/Anthracenes	489.		ug/kg	1.32	0.437	1
C2-Phenanthrenes/Anthr BS	240.		ug/kg	1.32	0.437	1
C3-Phenanthrenes/Anthracenes	107.		ug/kg	1.32	0.437	1
C4-Phenanthrenes/Anthracenes	43.7		ug/kg	1.32	0.437	1
Retene	20.0		ug/kg	1.32	0.324	1
Anthracene	369.		ug/kg	1.32	0.272	1
Carbazole	269.		ug/kg	1.32	0.432	1
1-Methylphenanthrene	112.		ug/kg	1.32	0.348	1
Fluoranthene	3500	E	ug/kg	1.32	0.419	1
Benzo(b)fluorene	408.		ug/kg	1.32	0.382	1
7H-Benzo(c)fluorene	132.		ug/kg	1.32	0.382	1
2-Methylpyrene ¹	114.		ug/kg	1.32	0.347	1
4-Methylpyrene ¹	96.0		ug/kg	1.32	0.347	1
1-Methylpyrene ¹	94.6		ug/kg	1.32	0.347	1
Pyrene	3730	E	ug/kg	1.32	0.347	1
C1-Fluoranthenes/Pyrenes	1160		ug/kg	1.32	0.347	1
C2-Fluoranthenes/Pyrenes	314.		ug/kg	1.32	0.347	1
C3-Fluoranthenes/Pyrenes	165.		ug/kg	1.32	0.347	1
C4-Fluoranthenes/Pyrenes	116.		ug/kg	1.32	0.347	1
Naphthobenzothiophenes	425.		ug/kg	1.32	0.369	1
C1-Naphthobenzothiophenes	129.		ug/kg	1.32	0.369	1
C2-Naphthobenzothiophenes	61.3		ug/kg	1.32	0.369	1
C3-Naphthobenzothiophenes	50.0	G	ug/kg	1.32	0.369	1
C4-Naphthobenzothiophenes	16.7		ug/kg	1.32	0.369	1
Benz(a)anthracene	2140	E	ug/kg	1.32	0.269	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-10
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Chrysene	2080	E	ug/kg	1.32	0.267	1
C1-Chrysenes	610.		ug/kg	1.32	0.267	1
C2-Chrysenes BS	243.		ug/kg	1.32	0.267	1
C3-Chrysenes	158.		ug/kg	1.32	0.267	1
C4-Chrysenes	63.9		ug/kg	1.32	0.267	1
Benzo(b)fluoranthene	2360	E	ug/kg	1.32	0.343	1
Benzo(j)+(k)fluoranthene	1600		ug/kg	1.32	0.262	1
Benzo(a)fluoranthene	399.		ug/kg	1.32	0.262	1
Benzo(e)pyrene	1590		ug/kg	1.32	0.272	1
Benzo(a)pyrene	2830	E	ug/kg	1.32	0.376	1
Perylene	982.		ug/kg	1.32	0.255	1
Indeno(1,2,3-cd)pyrene	1820	E	ug/kg	1.32	0.358	1
Dibenz(a,h)+(a,c)anthracene	450.		ug/kg	1.32	0.356	1
Benzo(g,h,i)perylene	2150	E	ug/kg	1.32	0.350	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	83		50-130
Phenanthrene-d10	102		50-130
Benzo(a)pyrene-d12	106		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-10 D
 Client ID: USMPDI-056SC-A-06-07-201107
 Sample Location: Not Specified

Date Collected: 11/07/20 13:30
 Date Received: 11/05/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 01/09/22 13:36
 Analyst: CC
 Percent Solids: 76%

Extraction Method: ALPHA OP-013
 Extraction Date: 01/05/22 20:00
 Cleanup Method: EPA 3611B
 Cleanup Date: 01/07/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	2440		ug/kg	5.28	1.75	4
Fluoranthene	3620		ug/kg	5.28	1.68	4
Pyrene	3860		ug/kg	5.28	1.39	4
Benz(a)anthracene	2020		ug/kg	5.28	1.08	4
Chrysene	1960		ug/kg	5.28	1.07	4
Benzo(b)fluoranthene	2110		ug/kg	5.28	1.37	4
Benzo(a)pyrene	2700		ug/kg	5.28	1.51	4
Indeno(1,2,3-cd)pyrene	1770		ug/kg	5.28	1.43	4
Benzo(g,h,i)perylene	2040		ug/kg	5.28	1.40	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	77		50-130
Phenanthrene-d10	101		50-130
Benzo(a)pyrene-d12	102		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-11
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/23/21 04:01
 Analyst: CC
 Percent Solids: 65%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	130.		ug/kg	4.61	0.916	1
C1-Decalins	446.		ug/kg	4.61	0.916	1
C2-Decalins	896.		ug/kg	4.61	0.916	1
C3-Decalins	787.		ug/kg	4.61	0.916	1
C4-Decalins	1040		ug/kg	4.61	0.916	1
Naphthalene	1810		ug/kg	9.22	2.65	1
C1-Naphthalenes	541.		ug/kg	9.22	2.65	1
C2-Naphthalenes	4000		ug/kg	9.22	2.65	1
C3-Naphthalenes	5110		ug/kg	9.22	2.65	1
C4-Naphthalenes	2780		ug/kg	9.22	2.65	1
2-Methylnaphthalene	551.		ug/kg	9.22	2.38	1
1-Methylnaphthalene	278.		ug/kg	9.22	2.90	1
Benzothiophene	134.		ug/kg	9.22	2.89	1
C1-Benzo(b)thiophenes	128.		ug/kg	9.22	2.89	1
C2-Benzo(b)thiophenes	628.		ug/kg	9.22	2.89	1
C3-Benzo(b)thiophenes	979.		ug/kg	9.22	2.89	1
C4-Benzo(b)thiophenes	731.		ug/kg	9.22	2.89	1
Biphenyl	265.		ug/kg	9.22	2.85	1
2,6-Dimethylnaphthalene	685.		ug/kg	9.22	2.19	1
Dibenzofuran	526.		ug/kg	9.22	2.90	1
Acenaphthylene	1880		ug/kg	9.22	1.76	1
Acenaphthene	5460		ug/kg	9.22	1.62	1
2,3,5-Trimethylnaphthalene	690.		ug/kg	9.22	1.51	1
Fluorene	4470		ug/kg	9.22	2.46	1
C1-Fluorenes	2010		ug/kg	9.22	2.46	1
C2-Fluorenes	2050		ug/kg	9.22	2.46	1
C3-Fluorenes	1650		ug/kg	9.22	2.46	1
Dibenzothiophene	5020		ug/kg	9.22	2.54	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-11
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	803.		ug/kg	9.22	2.54	1
2/3-Methyl dibenzothiophene(2MDT)	929.		ug/kg	9.22	2.54	1
1-Methyl dibenzothiophene(1MDT)	249.		ug/kg	9.22	2.54	1
C1-Dibenzothiophenes BS	2380		ug/kg	9.22	2.54	1
C2-Dibenzothiophenes	2010		ug/kg	9.22	2.54	1
C3-Dibenzothiophenes	1290		ug/kg	9.22	2.54	1
C4-Dibenzothiophenes	492.		ug/kg	9.22	2.54	1
3-Methylphenanthrene (3MP)	2730		ug/kg	9.22	3.05	1
2-Methylphenanthrene (2MP)	3420		ug/kg	9.22	3.05	1
2-Methylanthracene (2MA)	1100		ug/kg	9.22	3.05	1
9/4-Methylphenanthrene (9MP)	2380		ug/kg	9.22	3.05	1
C1-Phenanthrenes/Anthracenes	11400		ug/kg	9.22	3.05	1
C2-Phenanthrenes/Anthr BS	6220		ug/kg	9.22	3.05	1
C3-Phenanthrenes/Anthracenes	3210		ug/kg	9.22	3.05	1
C4-Phenanthrenes/Anthracenes	2160		ug/kg	9.22	3.05	1
Anthracene	8040		ug/kg	9.22	1.90	1
Carbazole	218.		ug/kg	9.22	3.02	1
1-Methylphenanthrene	2310		ug/kg	9.22	2.43	1
Benzo(b)fluorene	2440		ug/kg	9.22	2.67	1
7H-Benzo(c)fluorene	1160		ug/kg	9.22	2.67	1
2-Methylpyrene ¹	1550		ug/kg	9.22	2.42	1
4-Methylpyrene ¹	1380		ug/kg	9.22	2.42	1
1-Methylpyrene ¹	1510		ug/kg	9.22	2.42	1
C1-Fluoranthenes/Pyrenes	12100		ug/kg	9.22	2.42	1
C2-Fluoranthenes/Pyrenes	3080		ug/kg	9.22	2.42	1
C3-Fluoranthenes/Pyrenes	1460		ug/kg	9.22	2.42	1
C4-Fluoranthenes/Pyrenes	834.		ug/kg	9.22	2.42	1
Naphthobenzothiophenes	4340		ug/kg	9.22	2.58	1
C1-Naphthobenzothiophenes	1240		ug/kg	9.22	2.58	1
C2-Naphthobenzothiophenes	689.		ug/kg	9.22	2.58	1
C3-Naphthobenzothiophenes	555.		ug/kg	9.22	2.58	1
C4-Naphthobenzothiophenes	199.		ug/kg	9.22	2.58	1
Benz(a)anthracene	14400	E	ug/kg	9.22	1.88	1
Chrysene	16200	E	ug/kg	9.22	1.86	1
C1-Chrysenes	4010		ug/kg	9.22	1.86	1
C2-Chrysenes BS	1910		ug/kg	9.22	1.86	1
C3-Chrysenes	1060		ug/kg	9.22	1.86	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-11
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	593.		ug/kg	9.22	1.86	1
Benzo(b)fluoranthene	15700	E	ug/kg	9.22	2.40	1
Benzo(j)+(k)fluoranthene	8730		ug/kg	9.22	1.83	1
Benzo(a)fluoranthene	3140		ug/kg	9.22	1.83	1
Benzo(e)pyrene	12400	E	ug/kg	9.22	1.90	1
Benzo(a)pyrene	23100	E	ug/kg	9.22	2.63	1
Perylene	6150		ug/kg	9.22	1.78	1
Indeno(1,2,3-cd)pyrene	15600	E	ug/kg	9.22	2.50	1
Dibenz(a,h)+(a,c)anthracene	2670		ug/kg	9.22	2.49	1
Benzo(g,h,i)perylene	22200	E	ug/kg	9.22	2.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	83		50-130
Phenanthrene-d10	83		50-130
Benzo(a)pyrene-d12	105		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-11 D
 Client ID: USMPDI-004SC-A-05-06-201111
 Sample Location: Not Specified

Date Collected: 11/11/20 08:35
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 12:22
 Analyst: CC
 Percent Solids: 65%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	43400		ug/kg	92.2	30.5	10
Retene	3040		ug/kg	92.2	22.6	10
Fluoranthene	42100		ug/kg	92.2	29.3	10
Pyrene	51700		ug/kg	92.2	24.2	10
Benz(a)anthracene	13000		ug/kg	92.2	18.8	10
Chrysene	14800		ug/kg	92.2	18.6	10
Benzo(b)fluoranthene	13600		ug/kg	92.2	24.0	10
Benzo(e)pyrene	11300		ug/kg	92.2	19.0	10
Benzo(a)pyrene	20800		ug/kg	92.2	26.3	10
Indeno(1,2,3-cd)pyrene	13800		ug/kg	92.2	25.0	10
Benzo(g,h,i)perylene	19900		ug/kg	92.2	24.5	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	66		50-130
Phenanthrene-d10	87		50-130
Benzo(a)pyrene-d12	97		50-130

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-12
 Client ID: USMPDI-004SC-A-06-07-201111
 Sample Location: Not Specified

Date Collected: 11/09/21 10:57
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/23/21 05:29
 Analyst: CC
 Percent Solids: 61%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
cis/trans-Decalin	77.5		ug/kg	1.76	0.349	1
C1-Decalins	321.		ug/kg	1.76	0.349	1
C2-Decalins	621.		ug/kg	1.76	0.349	1
C3-Decalins	484.		ug/kg	1.76	0.349	1
C4-Decalins	558.		ug/kg	1.76	0.349	1
Naphthalene	1140		ug/kg	3.51	1.01	1
C1-Naphthalenes	191.		ug/kg	3.51	1.01	1
C2-Naphthalenes	360.		ug/kg	3.51	1.01	1
C3-Naphthalenes	520.		ug/kg	3.51	1.01	1
C4-Naphthalenes	420.		ug/kg	3.51	1.01	1
2-Methylnaphthalene	183.		ug/kg	3.51	0.906	1
1-Methylnaphthalene	112.		ug/kg	3.51	1.11	1
Benzothiophene	59.6		ug/kg	3.51	1.10	1
C1-Benzo(b)thiophenes	23.2		ug/kg	3.51	1.10	1
C2-Benzo(b)thiophenes	38.5		ug/kg	3.51	1.10	1
C3-Benzo(b)thiophenes	74.7		ug/kg	3.51	1.10	1
C4-Benzo(b)thiophenes	74.9		ug/kg	3.51	1.10	1
Biphenyl	135.		ug/kg	3.51	1.08	1
2,6-Dimethylnaphthalene	171.		ug/kg	3.51	0.835	1
Dibenzofuran	71.3		ug/kg	3.51	1.11	1
Acenaphthylene	285.		ug/kg	3.51	0.670	1
Acenaphthene	797.		ug/kg	3.51	0.619	1
2,3,5-Trimethylnaphthalene	76.4		ug/kg	3.51	0.575	1
Fluorene	808.		ug/kg	3.51	0.937	1
C1-Fluorenes	363.		ug/kg	3.51	0.937	1
C2-Fluorenes	387.		ug/kg	3.51	0.937	1
C3-Fluorenes	384.		ug/kg	3.51	0.937	1
Dibenzothiophene	831.		ug/kg	3.51	0.969	1

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-12
 Client ID: USMPDI-004SC-A-06-07-201111
 Sample Location: Not Specified

Date Collected: 11/09/21 10:57
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
4-Methyl dibenzothiophene(4MDT)	163.		ug/kg	3.51	0.969	1
2/3-Methyl dibenzothiophene(2MDT)	191.		ug/kg	3.51	0.969	1
1-Methyl dibenzothiophene(1MDT)	50.6		ug/kg	3.51	0.969	1
C1-Dibenzothiophenes BS	475.		ug/kg	3.51	0.969	1
C2-Dibenzothiophenes	427.		ug/kg	3.51	0.969	1
C3-Dibenzothiophenes	325.		ug/kg	3.51	0.969	1
C4-Dibenzothiophenes	144.		ug/kg	3.51	0.969	1
3-Methylphenanthrene (3MP)	609.		ug/kg	3.51	1.16	1
2-Methylphenanthrene (2MP)	741.		ug/kg	3.51	1.16	1
2-Methylanthracene (2MA)	268.		ug/kg	3.51	1.16	1
9/4-Methylphenanthrene (9MP)	625.		ug/kg	3.51	1.16	1
C1-Phenanthrenes/Anthracenes	2680		ug/kg	3.51	1.16	1
C2-Phenanthrenes/Anthr BS	1530		ug/kg	3.51	1.16	1
C3-Phenanthrenes/Anthracenes	917.		ug/kg	3.51	1.16	1
C4-Phenanthrenes/Anthracenes	462.		ug/kg	3.51	1.16	1
Anthracene	1940		ug/kg	3.51	0.724	1
Carbazole	81.4		ug/kg	3.51	1.15	1
1-Methylphenanthrene	571.		ug/kg	3.51	0.928	1
Benzo(b)fluorene	1060		ug/kg	3.51	1.02	1
7H-Benzo(c)fluorene	364.		ug/kg	3.51	1.02	1
2-Methylpyrene ¹	452.		ug/kg	3.51	0.924	1
4-Methylpyrene ¹	386.		ug/kg	3.51	0.924	1
1-Methylpyrene ¹	443.		ug/kg	3.51	0.924	1
C1-Fluoranthenes/Pyrenes	4030		ug/kg	3.51	0.924	1
C2-Fluoranthenes/Pyrenes	941.		ug/kg	3.51	0.924	1
C3-Fluoranthenes/Pyrenes	460.		ug/kg	3.51	0.924	1
C4-Fluoranthenes/Pyrenes	311.		ug/kg	3.51	0.924	1
Naphthobenzothiophenes	1320		ug/kg	3.51	0.983	1
C1-Naphthobenzothiophenes	430.		ug/kg	3.51	0.983	1
C2-Naphthobenzothiophenes	241.		ug/kg	3.51	0.983	1
C3-Naphthobenzothiophenes	199.		ug/kg	3.51	0.983	1
C4-Naphthobenzothiophenes	93.4		ug/kg	3.51	0.983	1
Benz(a)anthracene	5280	E	ug/kg	3.51	0.716	1
Chrysene	5870	E	ug/kg	3.51	0.710	1
C1-Chrysenes	1510		ug/kg	3.51	0.710	1
C2-Chrysenes BS	658.		ug/kg	3.51	0.710	1
C3-Chrysenes	397.		ug/kg	3.51	0.710	1

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-12
Client ID: USMPDI-004SC-A-06-07-201111
Sample Location: Not Specified

Date Collected: 11/09/21 10:57
Date Received: 11/10/21
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
C4-Chrysenes	234.		ug/kg	3.51	0.710	1
Benzo(b)fluoranthene	6070	E	ug/kg	3.51	0.914	1
Benzo(j)+(k)fluoranthene	3510		ug/kg	3.51	0.697	1
Benzo(a)fluoranthene	1270		ug/kg	3.51	0.697	1
Benzo(e)pyrene	4750	E	ug/kg	3.51	0.725	1
Benzo(a)pyrene	9080	E	ug/kg	3.51	1.00	1
Perylene	2530		ug/kg	3.51	0.678	1
Indeno(1,2,3-cd)pyrene	6310	E	ug/kg	3.51	0.954	1
Dibenz(a,h)+(a,c)anthracene	1110		ug/kg	3.51	0.949	1
Benzo(g,h,i)perylene	8990	E	ug/kg	3.51	0.934	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	77		50-130
Phenanthrene-d10	77		50-130
Benzo(a)pyrene-d12	102		50-130

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**SAMPLE RESULTS**

Lab ID: L2161038-12 D
 Client ID: USMPDI-004SC-A-06-07-201111
 Sample Location: Not Specified

Date Collected: 11/09/21 10:57
 Date Received: 11/10/21
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 1,8270D-SIM(M)
 Analytical Date: 12/28/21 06:34
 Analyst: CC
 Percent Solids: 61%

Extraction Method: ALPHA OP-013
 Extraction Date: 12/16/21 20:13
 Cleanup Method: EPA 3611B
 Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PAHs - Mansfield Lab						
Phenanthrene	9560		ug/kg	17.6	5.82	5
Retene	329.		ug/kg	17.6	4.31	5
Fluoranthene	13500		ug/kg	17.6	5.58	5
Pyrene	16300		ug/kg	17.6	4.62	5
Benz(a)anthracene	5100		ug/kg	17.6	3.58	5
Chrysene	5710		ug/kg	17.6	3.55	5
Benzo(b)fluoranthene	5320		ug/kg	17.6	4.57	5
Benzo(e)pyrene	4580		ug/kg	17.6	3.62	5
Benzo(a)pyrene	8650		ug/kg	17.6	5.02	5
Indeno(1,2,3-cd)pyrene	6160		ug/kg	17.6	4.77	5
Benzo(g,h,i)perylene	8660		ug/kg	17.6	4.67	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	69		50-130
Phenanthrene-d10	88		50-130
Benzo(a)pyrene-d12	103		50-130

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 12/22/21 07:22
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 12/16/21 20:13
Cleanup Method: EPA 3611B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-09,11-12 Batch: WG1584338-1					
cis/trans-Decalin	ND		ug/kg	0.500	0.0994
C1-Decalins	ND		ug/kg	0.500	0.0994
C2-Decalins	ND		ug/kg	0.500	0.0994
C3-Decalins	ND		ug/kg	0.500	0.0994
C4-Decalins	ND		ug/kg	0.500	0.0994
Naphthalene	ND		ug/kg	1.00	0.287
C1-Naphthalenes	ND		ug/kg	1.00	0.287
C2-Naphthalenes	ND		ug/kg	1.00	0.287
C3-Naphthalenes	ND		ug/kg	1.00	0.287
C4-Naphthalenes	ND		ug/kg	1.00	0.287
2-Methylnaphthalene	ND		ug/kg	1.00	0.258
1-Methylnaphthalene	ND		ug/kg	1.00	0.315
Benzothiophene	ND		ug/kg	1.00	0.313
C1-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C2-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C3-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C4-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
Biphenyl	ND		ug/kg	1.00	0.309
2,6-Dimethylnaphthalene	ND		ug/kg	1.00	0.238
Dibenzofuran	ND		ug/kg	1.00	0.315
Acenaphthylene	ND		ug/kg	1.00	0.191
Acenaphthene	ND		ug/kg	1.00	0.176
2,3,5-Trimethylnaphthalene	ND		ug/kg	1.00	0.164
Fluorene	ND		ug/kg	1.00	0.267
C1-Fluorenes	ND		ug/kg	1.00	0.267
C2-Fluorenes	ND		ug/kg	1.00	0.267
C3-Fluorenes	ND		ug/kg	1.00	0.267
Dibenzothiophene	ND		ug/kg	1.00	0.276
4-Methyldibenzothiophene(4MDT)	ND		ug/kg	1.00	0.276

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 12/22/21 07:22
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 12/16/21 20:13
Cleanup Method: EPA 3611B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-09,11-12 Batch: WG1584338-1					
2/3-Methyldibenzothiophene(2MDT)	ND		ug/kg	1.00	0.276
1-Methyldibenzothiophene(1MDT)	ND		ug/kg	1.00	0.276
C1-Dibenzothiophenes BS	ND		ug/kg	1.00	0.276
C2-Dibenzothiophenes	0.353	J	ug/kg	1.00	0.276
C3-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C4-Dibenzothiophenes	ND		ug/kg	1.00	0.276
Phenanthrene	ND		ug/kg	1.00	0.331
3-Methylphenanthrene (3MP)	ND		ug/kg	1.00	0.331
2-Methylphenanthrene (2MP)	ND		ug/kg	1.00	0.331
2-Methylanthracene (2MA)	ND		ug/kg	1.00	0.331
9/4-Methylphenanthrene (9MP)	ND		ug/kg	1.00	0.331
C1-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C2-Phenanthrenes/Anthr BS	ND		ug/kg	1.00	0.331
C3-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C4-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
Retene	ND		ug/kg	1.00	0.245
Anthracene	ND		ug/kg	1.00	0.206
Carbazole	ND		ug/kg	1.00	0.327
1-Methylphenanthrene	ND		ug/kg	1.00	0.264
Fluoranthene	ND		ug/kg	1.00	0.318
Benzo(b)fluorene	ND		ug/kg	1.00	0.290
7H-Benzo(c)fluorene	ND		ug/kg	1.00	0.290
2-Methylpyrene ¹	ND		ug/kg	1.00	0.263
4-Methylpyrene ¹	ND		ug/kg	1.00	0.263
1-Methylpyrene ¹	ND		ug/kg	1.00	0.263
Pyrene	ND		ug/kg	1.00	0.263
C1-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C2-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C3-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 12/22/21 07:22
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 12/16/21 20:13
Cleanup Method: EPA 3611B
Cleanup Date: 12/21/21

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 01-09,11-12 Batch: WG1584338-1					
C4-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C1-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C2-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C3-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C4-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
Benz(a)anthracene	ND		ug/kg	1.00	0.204
Chrysene	ND		ug/kg	1.00	0.202
C1-Chrysenes	ND		ug/kg	1.00	0.202
C2-Chrysenes BS	ND		ug/kg	1.00	0.202
C3-Chrysenes	ND		ug/kg	1.00	0.202
C4-Chrysenes	ND		ug/kg	1.00	0.202
Benzo(b)fluoranthene	ND		ug/kg	1.00	0.260
Benzo(j)+(k)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(a)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(e)pyrene	ND		ug/kg	1.00	0.206
Benzo(a)pyrene	ND		ug/kg	1.00	0.285
Perylene	ND		ug/kg	1.00	0.193
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1.00	0.271
Dibenz(a,h)+(a,c)anthracene	ND		ug/kg	1.00	0.270
Benzo(g,h,i)perylene	ND		ug/kg	1.00	0.266

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	72		50-130
Phenanthrene-d10	97		50-130
Benzo(a)pyrene-d12	107		50-130



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 01/07/22 13:42
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 01/05/22 20:00
Cleanup Method: EPA 3611B
Cleanup Date: 01/07/22

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 10 Batch: WG1590950-1					
cis/trans-Decalin	ND		ug/kg	0.500	0.0994
C1-Decalins	ND		ug/kg	0.500	0.0994
C2-Decalins	ND		ug/kg	0.500	0.0994
C3-Decalins	ND		ug/kg	0.500	0.0994
C4-Decalins	ND		ug/kg	0.500	0.0994
Naphthalene	ND		ug/kg	1.00	0.287
C1-Naphthalenes	ND		ug/kg	1.00	0.287
C2-Naphthalenes	ND		ug/kg	1.00	0.287
C3-Naphthalenes	ND		ug/kg	1.00	0.287
C4-Naphthalenes	ND		ug/kg	1.00	0.287
2-Methylnaphthalene	ND		ug/kg	1.00	0.258
1-Methylnaphthalene	ND		ug/kg	1.00	0.315
Benzothiophene	ND		ug/kg	1.00	0.313
C1-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C2-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C3-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
C4-Benzo(b)thiophenes	ND		ug/kg	1.00	0.313
Biphenyl	ND		ug/kg	1.00	0.309
2,6-Dimethylnaphthalene	ND		ug/kg	1.00	0.238
Dibenzofuran	ND		ug/kg	1.00	0.315
Acenaphthylene	ND		ug/kg	1.00	0.191
Acenaphthene	ND		ug/kg	1.00	0.176
2,3,5-Trimethylnaphthalene	ND		ug/kg	1.00	0.164
Fluorene	ND		ug/kg	1.00	0.267
C1-Fluorenes	ND		ug/kg	1.00	0.267
C2-Fluorenes	ND		ug/kg	1.00	0.267
C3-Fluorenes	ND		ug/kg	1.00	0.267
Dibenzothiophene	ND		ug/kg	1.00	0.276
4-Methyldibenzothiophene(4MDT)	ND		ug/kg	1.00	0.276

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 01/07/22 13:42
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 01/05/22 20:00
Cleanup Method: EPA 3611B
Cleanup Date: 01/07/22

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 10 Batch: WG1590950-1					
2/3-Methyldibenzothiophene(2MDT)	ND		ug/kg	1.00	0.276
1-Methyldibenzothiophene(1MDT)	ND		ug/kg	1.00	0.276
C1-Dibenzothiophenes BS	ND		ug/kg	1.00	0.276
C2-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C3-Dibenzothiophenes	ND		ug/kg	1.00	0.276
C4-Dibenzothiophenes	ND		ug/kg	1.00	0.276
Phenanthrene	ND		ug/kg	1.00	0.331
3-Methylphenanthrene (3MP)	ND		ug/kg	1.00	0.331
2-Methylphenanthrene (2MP)	ND		ug/kg	1.00	0.331
2-Methylanthracene (2MA)	ND		ug/kg	1.00	0.331
9/4-Methylphenanthrene (9MP)	ND		ug/kg	1.00	0.331
C1-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C2-Phenanthrenes/Anthr BS	ND		ug/kg	1.00	0.331
C3-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
C4-Phenanthrenes/Anthracenes	ND		ug/kg	1.00	0.331
Retene	ND		ug/kg	1.00	0.245
Anthracene	ND		ug/kg	1.00	0.206
Carbazole	ND		ug/kg	1.00	0.327
1-Methylphenanthrene	ND		ug/kg	1.00	0.264
Fluoranthene	ND		ug/kg	1.00	0.318
Benzo(b)fluorene	ND		ug/kg	1.00	0.290
7H-Benzo(c)fluorene	ND		ug/kg	1.00	0.290
2-Methylpyrene ¹	ND		ug/kg	1.00	0.263
4-Methylpyrene ¹	ND		ug/kg	1.00	0.263
1-Methylpyrene ¹	ND		ug/kg	1.00	0.263
Pyrene	ND		ug/kg	1.00	0.263
C1-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C2-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
C3-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM(M)
Analytical Date: 01/07/22 13:42
Analyst: CC

Extraction Method: ALPHA OP-013
Extraction Date: 01/05/22 20:00
Cleanup Method: EPA 3611B
Cleanup Date: 01/07/22

Parameter	Result	Qualifier	Units	RL	MDL
PAHs - Mansfield Lab for sample(s): 10 Batch: WG1590950-1					
C4-Fluoranthenes/Pyrenes	ND		ug/kg	1.00	0.263
Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C1-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C2-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C3-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
C4-Naphthobenzothiophenes	ND		ug/kg	1.00	0.280
Benz(a)anthracene	ND		ug/kg	1.00	0.204
Chrysene	ND		ug/kg	1.00	0.202
C1-Chrysenes	ND		ug/kg	1.00	0.202
C2-Chrysenes BS	ND		ug/kg	1.00	0.202
C3-Chrysenes	ND		ug/kg	1.00	0.202
C4-Chrysenes	ND		ug/kg	1.00	0.202
Benzo(b)fluoranthene	ND		ug/kg	1.00	0.260
Benzo(j)+(k)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(a)fluoranthene	ND		ug/kg	1.00	0.198
Benzo(e)pyrene	ND		ug/kg	1.00	0.206
Benzo(a)pyrene	ND		ug/kg	1.00	0.285
Perylene	ND		ug/kg	1.00	0.193
Indeno(1,2,3-cd)pyrene	ND		ug/kg	1.00	0.271
Dibenz(a,h)+(a,c)anthracene	ND		ug/kg	1.00	0.270
Benzo(g,h,i)perylene	ND		ug/kg	1.00	0.266

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Naphthalene-d8	91		50-130
Phenanthrene-d10	99		50-130
Benzo(a)pyrene-d12	105		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2161038

Report Date: 01/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 01-09,11-12 Batch: WG1584338-2 WG1584338-3								
Naphthalene	74		82		50-130	10		30
2-Methylnaphthalene	77		84		50-130	9		30
Acenaphthylene	84		90		50-130	7		30
Acenaphthene	81		88		50-130	8		30
Fluorene	85		92		50-130	8		30
Phenanthrene	88		95		50-130	8		30
Anthracene	93		98		50-130	5		30
Fluoranthene	87		94		50-130	8		30
Pyrene	88		96		50-130	9		30
Benz(a)anthracene	90		92		50-130	2		30
Chrysene	83		83		50-130	0		30
Benzo(b)fluoranthene	100		100		50-130	0		30
Benzo(j)+(k)fluoranthene	84		84		50-130	0		30
Benzo(a)pyrene	102		103		50-130	1		30
Indeno(1,2,3-cd)pyrene	97		94		50-130	3		30
Dibenz(a,h)+(a,c)anthracene	105		105		50-130	0		30
Benzo(g,h,i)perylene	101		102		50-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PAHs - Mansfield Lab Associated sample(s): 01-09,11-12 Batch: WG1584338-2 WG1584338-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Naphthalene-d8	76		82		50-130
Phenanthrene-d10	96		102		50-130
Benzo(a)pyrene-d12	103		103		50-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PAHs - Mansfield Lab Associated sample(s): 10 Batch: WG1590950-2 WG1590950-3								
Naphthalene	98		100		50-130	2		30
2-Methylnaphthalene	95		98		50-130	3		30
Acenaphthylene	94		95		50-130	1		30
Acenaphthene	94		96		50-130	2		30
Fluorene	97		99		50-130	2		30
Phenanthrene	99		101		50-130	2		30
Anthracene	105		106		50-130	1		30
Fluoranthene	94		95		50-130	1		30
Pyrene	94		95		50-130	1		30
Benz(a)anthracene	105		106		50-130	1		30
Chrysene	99		101		50-130	2		30
Benzo(b)fluoranthene	111		113		50-130	2		30
Benzo(j)+(k)fluoranthene	105		106		50-130	1		30
Benzo(a)pyrene	113		114		50-130	1		30
Indeno(1,2,3-cd)pyrene	105		106		50-130	1		30
Dibenz(a,h)+(a,c)anthracene	110		111		50-130	1		30
Benzo(g,h,i)perylene	108		110		50-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PAHs - Mansfield Lab Associated sample(s): 10 Batch: WG1590950-2 WG1590950-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Naphthalene-d8	98		98		50-130
Phenanthrene-d10	105		105		50-130
Benzo(a)pyrene-d12	105		104		50-130

INORGANICS & MISCELLANEOUS

Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-01

Date Collected: 11/09/20 14:55

Client ID: USMPDI-014SC-A-14-15-201109

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	66.4		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-02

Date Collected: 11/09/20 14:55

Client ID: USMPDI-014SC-A-15-16-201109

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	67.9		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-03

Date Collected: 04/29/20 09:45

Client ID: USMPDI-017SC-A-16-17-210429

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	68.6		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-04

Date Collected: 05/04/20 08:50

Client ID: USMPDI-028SC-A-05-6.3-210504

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	58.8		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-05

Date Collected: 11/03/20 16:30

Client ID: USMPDI-040SC-A-09-10-201103

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	66.8		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-06

Date Collected: 11/04/20 08:45

Client ID: USMPDI-044SC-A-15-16-201104

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	62.3		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-07

Date Collected: 11/04/20 08:45

Client ID: USMPDI-044SC-A-16-17-201104

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	69.0		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-08

Date Collected: 10/30/20 09:30

Client ID: USMPDI-047SC-A-05-06-201030

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	85.4		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-09

Date Collected: 11/07/20 13:30

Client ID: USMPDI-056SC-A-05-06-201107

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	54.2		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-10

Date Collected: 11/07/20 13:30

Client ID: USMPDI-056SC-A-06-07-201107

Date Received: 11/05/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	75.6		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-11

Date Collected: 11/11/20 08:35

Client ID: USMPDI-004SC-A-05-06-201111

Date Received: 11/10/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	64.7		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Project Name: US MOORINGS

Lab Number: L2161038

Project Number: 000029-02

Report Date: 01/10/22

SAMPLE RESULTS

Lab ID: L2161038-12

Date Collected: 11/09/21 10:57

Client ID: USMPDI-004SC-A-06-07-201111

Date Received: 11/10/21

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	61.0		%	0.100	0.100	1	-	11/15/21 08:45	121,2540G	AE



Lab Duplicate Analysis

Batch Quality Control

Project Name: US MOORINGS

Project Number: 000029-02

Lab Number: L2161038

Report Date: 01/10/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1571375-1 QC Sample: L2161586-01 Client ID: DUP Sample						
Solids, Total	65.3	67.6	%	3		10

Project Name: US MOORINGS**Lab Number:** L2161038**Project Number:** 000029-02**Report Date:** 01/10/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Present/Intact
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2161038-01A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-02A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-03A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-04A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-04X	Glass 500ml unpreserved split	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-05A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-06A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-07A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-08A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-09A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-10A	Glass 250ml/8oz unpreserved	A	NA		0.9	Y	Present/Intact		A2-ALKPAH(14),A2-TS(7)
L2161038-11A	Glass 250ml/8oz unpreserved	B	NA		2.4	Y	Absent		A2-ALKPAH(14),A2-TS(7)
L2161038-12A	Glass 250ml/8oz unpreserved	B	NA		2.4	Y	Absent		A2-ALKPAH(14),A2-TS(7)

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: US MOORINGS
Project Number: 000029-02

Lab Number: L2161038
Report Date: 01/10/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

SUBCONTRACT ORDER

L2161038

Apex Laboratories

A1K0116

SENDING LABORATORY:

Apex Laboratories
 6700 S.W. Sandburg Street
 Tigard, OR 97223
 Phone: (503) 718-2323
 Fax: (503) 336-0745
 Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Analytical Resources, INC
 4611 S. 134th Place
 Tukwila, WA 98168
 Phone : (206) 695-6200
 Fax: (206) 695-6201

01 * Sample Name: A1K0116-01 / Sedimen / Copy/relog of A0K0402-31 / Sampled: 11/09/20 14:55 / 14SC-A-14-15-201109)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (A) 8 oz Glass Jar			

02 * Sample Name: A1K0116-02 / Sedimen / Copy/relog of A0K0402-32 / Sampled: 11/09/20 14:55 / 14SC-A-15-16-201109)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/23/20 14:55	ARI Frozen 11/11/20 Thawed 11/3/21
Containers Supplied: (A) 8 oz Glass Jar			

03 * Sample Name: A1K0116-03 / Sedimen / Copy/relog of A1D1275-17 / Sampled: 04/29/20 09:45 / 17SC-A-16-17-210429)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/13/20 09:45	ARI Frozen 5/3/21 Thawed 11/3/21
Containers Supplied: (A) 8 oz Glass Jar			

04 * Sample Name: A1K0116-04 / Sedimen / Copy/relog of A1E0179-06 / Sampled: 05/04/21 08:50 / 8SC-A-05-6.3-210504)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	05/18/21 08:50	ARI Frozen 5/5/21 Thawed 11/3/21
Containers Supplied: (A) 8 oz Glass Jar			

* Samples placed in frozen storage 11/1/2021 SLF

Released By: *Anniah Sengge* Date: 11/3/21
 Received By: *Jacob Walter* Date: 11/04/2021 1102 312
 Released By: *Jacob Walter* Date: 11/04/2021 1400
 Received By: *[Signature]* Date: 11/5/21 1042

SUBCONTRACT ORDER

Apex Laboratories

A1K0116

L2161038

05

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/17/20 16:30	ARI Frozen 11/5/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

06

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/6/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

07

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/18/20 08:45	ARI Frozen 11/4/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

08

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/13/20 09:30	ARI Frozen 10/31/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

09

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/9/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

10

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List	11/16/21 17:00	11/21/20 13:30	ARI Frozen 11/9/20 Thawed 11/3/21

Containers Supplied:
(A) 8 oz Glass Jar

Annalee Suggs 11/3/21

UPS (Shipper)

Released By
UPS (Shipper)

Received By
Jacob Walter 11/04/20 1102

Released By
Jacob Walter 11/04/20 1400

Received By
11/5/21 1042

SUBCONTRACT ORDER

8

216103B

Apex Laboratories

A1K0354

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

-11
Sample Name: USMPDI-004SC-A-05-06-201111

SE

Copy/relog of A0K0538-22
Sampled: 11/11/20 08:35

AKK NAM
(A1K0354-01)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/25/20 08:35	

-12
Sample Name: USMPDI-004SC-A-06-07-201111

SE

Copy/relog of A0K0538-23
Sampled: 11/09/21 10:57


(A1K0354-02)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/23/21 10:57	

Standard TAT

Samples frozen 11/13/20
thawed 11/8/21

Released By


UPS (Shipper)

Date

11/9/21

Received By

UPS (Shipper)

Date

Received By



Date

11/10/21 11:26

PHILIP NERENBERG
5037182323
APEX LABORATORIES LLC
6700 SW SANDBURG ST.
TIGARD OR 97223

25 LBS

1 OF 1

DWT: 18,16,13

SHIP TO:
RECEIVING
5088229300
ALPHA ANALYTICAL, INC.
320 FORBES BOULEVARD
MANSFIELD MA 02048



MA 024 9-02



UPS NEXT DAY AIR

1

TRACKING #: 1Z X47 20R 01 9250 4915



BILLING: P/P



Reference No.1: Sub

XOL 21.11.05 NV45-46.0A 11/2021*

SUBCONTRACT ORDER

8

216103B

Apex Laboratories

A1K0354

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Alpha Analytical, INC
320 Forbes Boulevard
Mansfield, MA 02048
Phone: (508) 822-9300
Fax:

-11
Sample Name: USMPDI-004SC-A-05-06-201111

SE

Copy/relog of A0K0538-22
Sampled: 11/11/20 08:35

AKK NAM
(A1K0354-01)

Analysis	Due	Expires	Comments
8270E LL PAH and Homologs - Full List Containers Supplied: (A)8 oz Glass Jar	11/22/21 17:00	11/25/20 08:35	

-12
Sample Name: USMPDI-004SC-A-06-07-201111

SE

Copy/relog of A0K0538-23
Sampled: 11/09/21 10:57


(A1K0354-02)

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Copy/relog of A0K0538-23
Sampled: 11/09/21 10:57

(A1K0354-02)

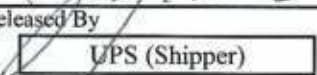
Analysis	Due	Expires	Comments
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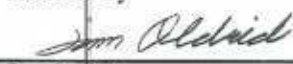
Date

11/9/21

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11/10/21 11:26

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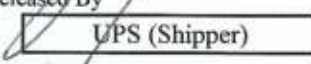

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