

APPENDIX L

INVESTIGATION DERIVED WASTE

APPENDIX L-1

MANIFESTS

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522	2. Page 1 of 1	3. Emergency Response Phone (800) 899-4672	4. Waste Tracking Number 404807
5. Generator's Name and Mailing Address Loring Air Force Base 2261 Hughes Avenue Suite 155 JB5A Air Force Civil Engineer Center Lackland, TX 78236 Generator's Phone: (801) 885-0403			Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750		
6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number NJD 003 812 047		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MID 048 090 633		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
		1 Material Not Regulated By D.O.T., (PFAS)	001	CM 015 P	
13. Special Handling Instructions and Additional Information 1. I24-0489-WDI / Sol.I.DW - Loring AFB / P214.13392 [W:64.10.372800] 15 Ton Can # 25-0162					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Generator's/Officer's Printed/Typed Name Eric Bagley on behalf of U.S. Air Force Signature Li Bagley Month Day Year 10 3 24					
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:					
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name John A. Massery Signature John A. Massery Month Day Year 10 3 24				
	Transporter 2 Printed/Typed Name Signature Month Day Year				
DESIGNATED FACILITY	17. Discrepancy 17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number:				
	17b. Alternate Facility (or Generator) U.S. EPA ID Number				
	Facility's Phone:				
	17c. Signature of Alternate Facility (or Generator) Month Day Year				
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Tracy M. Carasick Signature Tracy M. Carasick Month Day Year 10 10 24					



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CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404807
have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522	2. Page 1 of 1	3. Emergency Response Phone (800) 899-4672	4. Waste Tracking Number 404823	
5. Generator's Name and Mailing Address Loring Air Force Base 2261 Hughes Avenue Suite 155 JBSA Air Force Civil Engineer Center Lackland, TX 78236			Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750			
Generator's Phone: (801) 885-0403						
6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number NJD 003 812 047			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633			
Facility's Phone: (800) 592-5489						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity
				No.	Type	12. Unit Wt./Vol.
		1. Material Not Regulated By D.O.T., (PFAS)		001	CM	14 T
		2.				
		3.				
	4.					
13. Special Handling Instructions and Additional Information 1. I24-0489-WDI / Soil IDW - Loring AFB / P214.13392 [W:64.10.372800] [P214.13392] Can # 25-6215						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name Eric Bailey on behalf of U.S. Air Force			Signature <i>[Signature]</i>		Month 10	Day 16
					Year 24	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of export: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Eric Bailey			Signature <i>[Signature]</i>		Month 10	Day 16
					Year 24	
Transporter 2 Printed/Typed Name			Signature		Month	Day
					Year	
17. Discrepancy						
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name Spencer Doff			Signature <i>[Signature]</i>		Month 10	Day 29
					Year 24	

This certificate is to verify the wastes specified on Manifest # 404823

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.



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CERTIFICATE OF DISPOSAL

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature: _____

A handwritten signature in black ink, appearing to be "J. B. Smith", written over a horizontal line.

1-DESIGNATED FACILITY TO DESTINATION

This certificate is to verify the wastes specified on Manifest # 40847
have been properly disposed of in accordance with all local, state and federal regulation.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

CERTIFICATE OF DISPOSAL



FACILITY NAME: ☒ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) ☐ Wayne Disposal, Inc. (EPA I.D. # MID048090633)
(Please check one)

ADDRESS: 49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: 

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522		2. Page 1 of 1	3. Emergency Response Phone (800) 899-4672		4. Waste Tracking Number 404860		
		5. Generator's Name and Mailing Address Loring Air Force Base 2261 Hughes Avenue Suite 155 JB5A Air Force Civil Engineer Center Lackland, TX 78236				Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750			
		6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.				U.S. EPA ID Number NJD 003 812 047			
		7. Transporter 2 Company Name				U.S. EPA ID Number			
		8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111				U.S. EPA ID Number MID 048 090 633			
		Facility's Phone: (800) 592-5489							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
					No.	Type			
		1. Material Not Regulated By D.O.T., (PFAS)			1	CM 4600	1/2		
		2.							
		3.							
		4.							
13. Special Handling Instructions and Additional Information 1. J24-0388-WDI / Debris - Loring AFB / P214.13392 [W:64.10.382401] [P214.13392] Can # 25-0220									
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
Generator's/Officer's Printed/Typed Name Eric Bailey as an agent of U.S. Force					Signature <i>[Signature]</i>		Month Day Year 11 4 24		
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
16. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Michael Gorham					Signature <i>[Signature]</i>		Month Day Year 11 04 24		
Transporter 2 Printed/Typed Name					Signature		Month Day Year		
17. Discrepancy									
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
Manifest Reference Number: _____									
17b. Alternate Facility (or Generator) U.S. EPA ID Number									
Facility's Phone: _____									
17c. Signature of Alternate Facility (or Generator) Month Day Year									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name HOPE SMITH					Signature <i>[Signature]</i>		Month Day Year 11 18 24		



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CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404860
have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:

BME

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522	2. Page 1 of 1	3. Emergency Response Phone (800) 899-4672	4. Waste Tracking Number 404867
5. Generator's Name and Mailing Address Loring Air Force Base 2261 HUGHES AVENUE SUITE 155 Air Force Civil Engineer Center JBASA-LACKLAND, TX 78236			Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750		
Generator's Phone: (801) 885-0403					
6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number NJD 003 812 047		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633		
Facility's Phone: (800) 592-5489					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt./Vol.
		Material Not Regulated By D.O.T., (PFAS)	001	C	2760165
13. Special Handling Instructions and Additional Information 1. I24-0489-WD1 / Soil IDW - Loring AFB / P214.13392 [W:64.10.382401] [P214.13392]					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Eric Bales as an agent for U.S. Air Force					
Signature <i>[Signature]</i>					
Month Day Year 11 14 24					
15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Michael Gorham			Signature <i>[Signature]</i>		Month Day Year 11 15 24
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☒ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator) U.S. EPA ID Number					
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name Davison McFarland			Signature <i>[Signature]</i>		Month Day Year 12 10 24

6-NHM-C-C-11

2-DESIGNATED FACILITY TO GENERATOR



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CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404867
have been properly disposed of in accordance with all local, state and federal regulation.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature: _____

OR

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522	2. Page 1 of 1	3. Emergency Response Phone (800) 889-4672	4. Waste Tracking Number 404868
5. Generator's Name and Mailing Address 2261 HUGHES AVENUE SUITE 155 Air Force Civil Engineer Center JBAS-LACKLAND, TX 78236 Generator's Phone: (801) 885-0403			Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750		
6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number NJD 003 812 047		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MID 048 090 633		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt/Vol
		Material Not Regulated By D.O.T., (PFAS)	001	CM 21580	BS
13. Special Handling Instructions and Additional Information 1. I24-0489-WDI / Soil IDW - Loring AFB / P214.13392 [W:64.10.382401] [P214.13392] weight 54,200 Truck # 3064					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Eric Bailey as an agent for U.S. Air Force					
Signature [Signature]					
Month Day Year 11 15 24					
INTL	15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:				
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name Michael Gorkha				
	Signature [Signature]				
	Month Day Year 11 15 24				
	Transporter 2 Printed/Typed Name Alvaro Coto				
	Signature [Signature]				
	Month Day Year 11 20 24				
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	Manifest Reference Number:				
	17b. Alternate Facility (or Generator) U.S. EPA ID Number:				
	Facility's Phone:				
	17c. Signature of Alternate Facility (or Generator)				
	Month Day Year				
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a				
	Printed/Typed Name Spencer Doty				
	Signature [Signature]				
	Month Day Year 11 15 24				



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CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404868
have been properly disposed of in accordance with all local, state and federal regulation.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et sea.

FACILITY NAME:

☐

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:

[Handwritten Signature]

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

TRUCK # 3064
35,900 lbs

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number ME9 570 024 522	2. Page 1 of 1	3. Emergency Response Phone (800) 899-4872	4. Waste Tracking Number 404869
5. Generator's Name and Mailing Address Loring Air Force Base 2261 HUGHES AVENUE SUITE 155 Air Force Civil Engineer Center JBSA-LACKLAND, TX 78236			Generator's Site Address (if different than mailing address) 118 GEORGIA AVE Limestone, ME 04750		
Generator's Phone: (801) 885-0403					
6. Transporter 1 Company Name ACV ENVIRONMENTAL SERVICES INC.			U.S. EPA ID Number NJD 003 812 047		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFI 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 048 090 633		
Facility's Phone: (800) 592-5489					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit WL/Vol.
		Material Not Regulated By D.O.T., (PFAS)	001	CM	1860
					lbs
13. Special Handling Instructions and Additional Information 1. J24-0032-WDI / Empty Drum/Tote Debris - Loring AFB / P214.13392 [W:64.10.382401] [P214.13392]					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name Eric Backus as agent for U.S. Air Force					
Signature <i>Eric Backus</i>					Month Day Year 11 13 24
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Transporter signature (for exports only): Date leaving U.S.:					
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials				
	Transporter 1 Printed/Typed Name Michael Gordon		Signature <i>Michael Gordon</i>		Month Day Year 11 13 24
	Transporter 2 Printed/Typed Name Alvaro Coto		Signature <i>Alvaro Coto</i>		Month Day Year 11 24 22
DESIGNATED FACILITY	17. Discrepancy				
	17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☒ Full Rejection				
	Manifest Reference Number:				
	17b. Alternate Facility (or Generator) U.S. EPA ID Number:				
	Facility's Phone:				
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name DAVIDSON McFarland		Signature <i>DAVIDSON McFarland</i>		Month Day Year 11 12 24	



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CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404869
have been properly disposed of in accordance with all local, state and federal regulation.
"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature:

APPENDIX L-2
SOLID IDW SAMPLING PFAS RESULTS TABLE

Appendix L-2
Solid IDW Sampling PFAS Results Table

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Location				SR_IDW							
Sample Date				5/24/2022		10/18/2022		6/26/2024		10/1/2024	
Sample ID				LORNG_SR_IDW_01_05242022		LORNG_SR_IDW_02_10182022		LORNG_SR_IDW_01_06262024		LORNG_SR_IDW-02_10012024	
QC Code				N		N		N		N	
Latitude				46.9618244		46.9618244		46.9618244		46.9618244	
Longitude				-67.8824642		-67.8824642		-67.8824642		-67.8824642	
Class	Fraction	Analyte Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PFAS	T	Perfluorobutanoic acid (PFBA)	MG/KG	0.0011	U	0.0017		0.00097	U	0.0046	J
		Perfluoropentanoic acid (PFPeA)	MG/KG	0.0011	U	0.0034		0.00048	U	0.0089	J
		Perfluorohexanoic acid (PFHxA)	MG/KG	0.0011	U	0.0025		0.00048	U	0.0067	J
		Perfluoroheptanoic acid (PFHpA)	MG/KG	0.0011	U	0.0011	J	0.00048	U	0.0023	J
		Perfluorooctanoic acid (PFOA)	MG/KG	0.0011	U	0.00089	J	0.00048	U	0.003	J
		Perfluorononanoic acid (PFNA)	MG/KG	0.0011	U	0.00068	U	0.00048	U	0.0038	U
		Perfluorodecanoic acid (PFDA)	MG/KG	0.0011	U	0.00068	U	0.00048	U	0.0038	U
		Perfluoroundecanoic acid (PFUnA)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		Perfluorododecanoic acid (PFDoA)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		Perfluorotridecanoic acid (PFTriDA)	MG/KG	0.0011	U	0.00068	U	0.00048	U	0.0038	U
		Perfluorotetradecanoic acid (PFTeDA)	MG/KG	0.0011	U	0.00068	U	0.00048	U	0.0038	U
		Perfluorobutanesulfonic acid (PFBS)	MG/KG	0.0011	U	0.00068	U	0.00048	U	0.0011	J
		Perfluoropentanesulfonic acid (PFPeS)	MG/KG	0.0011	U	0.0014	U	0.00048	U	0.0038	U
		Perfluorohexanesulfonic acid (PFHxS)	MG/KG	0.0011	U	0.0028		0.00048	U	0.0058	J
		Perfluoroheptanesulfonic acid (PFHpS)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		Perfluorooctanesulfonic acid (PFOS)	MG/KG	0.0057		0.0032		0.00028	J	0.0071	J
		Perfluorononanesulfonic acid (PFNS)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		Perfluorodecanesulfonic acid (PFDS)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		Perfluorododecanesulfonic acid (PFDoS)	MG/KG	NA		NA		0.00048	U	0.0038	U
		1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	MG/KG	0.0011	U	0.00068	U	0.0012	U	0.0095	U
		1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	MG/KG	0.0011	U	0.001	U	0.0012	U	0.0095	U
		1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	MG/KG	0.0011	U	0.001	U	0.0012	U	0.0095	U
		Perfluorooctane sulfonamide (PFOSA)	MG/KG	0.0011	U	0.00051	U	0.00048	U	0.0038	U
		N-methyl perfluorooctanesulfonamide (NMeFOSA)	MG/KG	0.0011	U	0.0017	U	0.00048	U	0.0038	U
		N-ethyl perfluorooctanesulfonamide (NEtFOSA)	MG/KG	NA		NA		0.00048	U	0.0038	U
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	MG/KG	0.0011	U	0.001	U	0.00048	U	0.0038	U
		N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	MG/KG	NA		NA		0.0024	U	0.019	U
		N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	MG/KG	NA		NA		0.0024	U	0.019	U
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	MG/KG	NA		NA		0.00097	U	0.0076	U
		4,8-dioxo-3H-perfluorononanoic acid (ADONA)	MG/KG	NA		NA		0.00097	U	0.0076	U
		Perfluoro-3-methoxypropanoic acid (PFMPA)	MG/KG	NA		NA		0.00048	U	0.0038	U
		Perfluoro-4-methoxybutanoic acid (PFMBA)	MG/KG	NA		NA		0.00048	U	0.0038	U
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)	MG/KG	NA		NA		0.00097	U	0.0076	U
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	MG/KG	NA		NA		0.0012	U	0.0095	U
		11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	MG/KG	NA		NA		0.0012	U	0.0095	U
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	MG/KG	NA		NA		0.00048	U	0.0038	U
		3-Perfluoropropyl propanoic acid (3:3FTCA)	MG/KG	NA		NA		0.0012	U	0.0095	U
		2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	MG/KG	NA		NA		0.006	U	0.048	U
		3-Perfluoroheptyl propanoic acid (7:3FTCA)	MG/KG	NA		NA		0.006	U	0.048	U

All notes can be found on Table 1-1.

APPENDIX L-3
SOLID IDW SAMPLING NON-PFAS RESULTS TABLE

Appendix L-3																		
Solid IDW Sampling Non-PFAS Results Table																		
PFAS CERCLA Remedial Investigation Site Characterization Summary Report																		
Former Loring Air Force Base																		
Limestone, ME																		
Location				SR_IDW														
Sample Date				5/24/2022		10/18/2022					11/14/2022				10/1/2024			
Sample ID				LORNG_SR_IDW_01_05242022_K	LORNG_SR_IDW_01_05242022T_K	LORNG_SR_IDW_02_10182022	LORNG_SR_IDW_02_10182022_K	LORNG_SR_IDW_02_10182022T_K	LORNG_SR_IDW_03_11142022	LORNG_SR_IDW_03_11142022T	LORNG_SR_IDW_02-10012024_K							
QC Code				N	N	N	N	N	N	N	N							
Latitude				46.9618244	46.9618244	46.9618244	46.9618244	46.9618244	46.9618244	46.9618244	46.9618244							
Longitude				-67.8824642	-67.8824642	-67.8824642	-67.8824642	-67.8824642	-67.8824642	-67.8824642	-67.8824642							
Class	Fraction	Analyte Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
VOCs	T	BENZENE	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		CHLOROBENZENE	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		CARBON TETRACHLORIDE	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		1,2-DICHLOROETHANE	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		1,1-DICHLOROETHENE	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		METHYL ETHYL KETONE (2-BUTANONE)	UG/L	NA		50 U		NA		NA		50 U		NA		50 U		
		TETRACHLOROETHYLENE(PCE)	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		TRICHLOROETHYLENE (TCE)	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
		CHLOROFORM	UG/L	NA		10 U		NA		NA		10 U		NA		10 U		
VINYL CHLORIDE	UG/L	NA		20 U		NA		NA		20 U		NA		20 U				
SVOCs	T	1,4-DICHLOROBENZENE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		2,4-DINITROTOLUENE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		HEXACHLOROBUTADIENE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		HEXACHLOROBENZENE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		HEXACHLOROETHANE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		CRESOLS, M & P	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		2-METHYLPHENOL (O-CRESOL)	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		NITROBENZENE	UG/L	NA		38 U		NA		NA		38 U		NA		38 U		
		PENTACHLOROPHENOL	UG/L	NA		94 UL		NA		NA		94 U		NA		94 U		
		PYRIDINE	UG/L	NA		190 U		NA		NA		190 U		NA		190 ULL		
2,4,5-TRICHLOROPHENOL	UG/L	NA		94 UL		NA		NA		94 U		NA		94 U				
2,4,6-TRICHLOROPHENOL	UG/L	NA		38 UL		NA		NA		38 U		NA		38 U				
PCBs	T	PCB, TOTAL	UG/KG	80 U		NA		130 U		NA		84 U		NA		NA		
		PCB-1016 (AROCLOR 1016)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA		
		PCB-1221 (AROCLOR 1221)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA		
		PCB-1232 (AROCLOR 1232)	UG/KG	10 U		NA		16 U		NA		11 U		NA		NA		
		PCB-1242 (AROCLOR 1242)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA		
		PCB-1248 (AROCLOR 1248)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA		
		PCB-1254 (AROCLOR 1254)	UG/KG	8.7 U		NA		14 U		NA		9.2 UL		NA		NA		
		PCB-1260 (AROCLOR 1260)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA		
PCB-1262 (AROCLOR 1262)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA				
PCB-1268 (AROCLOR 1268)	UG/KG	8.7 U		NA		14 U		NA		9.2 U		NA		NA				
Pesticides	T	GAMMA BHC (LINDANE)	UG/L	NA		0.12 U		NA		0.12 U		NA		0.12 U		NA		
		CHLORDANE	UG/L	NA		1.2 U		NA		NA		1.2 U		NA		1.2 U		
		ENDRIN	UG/L	NA		0.25 U		NA		NA		0.25 U		NA		0.25 U		
		HEPTACHLOR	UG/L	NA		0.12 U		NA		NA		0.12 U		NA		0.12 U		
		HEPTACHLOR EPOXIDE	UG/L	NA		0.12 U		NA		NA		0.12 U		NA		0.12 U		
		METHOXYCHLOR	UG/L	NA		1.2 U		NA		NA		1.2 U		NA		1.2 U		
Herbicides	T	TOXAPHENE	UG/L	NA		2.5 U		NA		2.5 U		NA		2.5 U		NA		
		2,4-D (DICHLOROPHENOXYACETIC ACID)	UG/L	NA		7 U		NA		NA		7 U		NA		7 U		
SILVEX (2,4,5-TP)	UG/L	NA		7.2 U		NA		NA		7.2 U		NA		7.2 U		NA		
	Metals	T	CYANIDE	MG/KG	10 U		NA		NA		10 U		NA		10 U		NA	
SILVER			MG/KG	NA		NA		NA		NA		NA		NA		0.078 JN		
			UG/L	NA		20 U		NA		NA		20 U		NA		2.5 J		
ARSENIC			MG/KG	NA		NA		NA		NA		NA		NA		2.8 N		
			UG/L	NA		25 U		NA		NA		8.3 J		NA		19 J		
BARIUM			MG/KG	NA		NA		NA		NA		NA		NA		94.2		
			UG/L	NA		330		NA		NA		467		NA		690		
CADMIUM			MG/KG	NA		NA		NA		NA		NA		NA		0.38 UN		
			UG/L	NA		15 U		NA		NA		15 U		NA		15 U		
CHROMIUM, TOTAL			MG/KG	NA		NA		NA		NA		NA		NA		9.97		
			UG/L	NA		5.1 J		NA		NA		5.1 J		NA		5.3 J		
LEAD			MG/KG	NA		NA		NA		NA		NA		NA		0.5 U		
	UG/L	NA		20 U		NA		NA		7.8 J		NA		20 U				
SELENIUM	MG/KG	NA		NA		NA		NA		NA		NA		1.5				
	UG/L	NA		35 U		NA		NA		35 U		NA		35 U				
MERCURY	MG/KG	NA		NA		NA		NA		NA		NA		0.03 U				
	UG/L	NA		0.1 U		NA		NA		0.034 J		NA		0.017 J				
WetChem	T	SOLIDS, PERCENT	PERCENT	88		NA		57		NA		83		NA		55		
		IGNITABILITY	DEG C	71 >		NA		71 >		NA		71 >		NA		NA		
		SULFIDE	MG/KG	22 J		NA		25 U		NA		25 U		NA		NA		
		PH	PH UNITS	8.6		NA		8.2		NA		8.7		NA		NA		
		MOISTURE, PERCENT	PERCENT	NA		NA		42		NA		NA		NA		NA		

All notes can be found on Table 1-1.

APPENDIX L-4
LIQUID IDW SAMPLING RESULTS TABLE

Appendix L-4
Liquid IDW Sampling Results Table

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Location				IDW-EFF																			
Sample Date				6/8/2022		6/21/2022		7/26/2022		9/20/2022		6/15/2023		6/7/2024		6/21/2024		6/24/2024		6/25/2024			
Sample ID				LORNG_IDW-EFF_06082022		LORNG_IDW_EFF02_06212022		LORNG_IDW-EFF03_07262022		LORNG_IDW-EFF04_09202022		LORNG_ND40IDWEFF_06152023		LORNG_IDW-EFF01_06072024		LORNG_IDW-EFF02_06072024		LORNG_IDW-EFF03_06212024		LORNG_IDW-EFF04_06242024		LORNG_IDW-EFF05_06252024	
QC Code				N		N		N		N		N		N		N		N		N		N	
Latitude				46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271	
Longitude				-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601	
Class	Fraction	Analyte Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PFAS	T	Perfluorobutanoic acid (PFBA)	NG/L	4.2	U	4	U	3.6	U	3.7	U	2	U	8.8	J	7.6	J	3.9	U	3.8	U	3.7	U
		Perfluoropentanoic acid (PFPeA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	2.1	J	2.4	J	1.9	U	1.9	U	1.9	U
		Perfluorohexanoic acid (PFHxA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	0.73	J	0.91	J	1.9	U	1.9	U	1.9	U
		Perfluoroheptanoic acid (PFHpA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorooctanoic acid (PFOA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.25	U	0.95	U	0.96	U	0.97	U	0.94	U	0.93	U
		Perfluorononanoic acid (PFNA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorodecanoic acid (PFDA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	1	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluoroundecanoic acid (PFUnA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorododecanoic acid (PFDoA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	1	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorotridecanoic acid (PFTrDA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	1	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorotetradecanoic acid (PFTeDA)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.5	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorobutanesulfonic acid (PFBS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.44	U	1	J	1	J	1.9	U	1.9	U	1.9	U
		Perfluoropentanesulfonic acid (PFPeS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.47	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		Perfluorohexanesulfonic acid (PFHxS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.47	U	2.4	J	4.3		1.9	U	1.9	U	1.9	U
		Perfluoroheptanesulfonic acid (PFHpS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.47	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorooctanesulfonic acid (PFOS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.47	U	1.6	J	1.8	J	1.9	U	1.9	U	1.9	U
		Perfluorononanesulfonic acid (PFNS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.94	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorodecanesulfonic acid (PFDS)	NG/L	2.1	U	2	U	1.8	U	1.9	U	0.47	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluorododecanesulfonic acid (PFDoS)	NG/L	NA		NA		NA		NA		1	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	NG/L	4.2	U	4	U	3.6	U	3.7	U	1.9	U	7.6	U	7.7	U	7.8	U	7.5	U	7.4	U
		1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	NG/L	4.2	U	4	U	3.6	U	3.7	U	1.9	U	7.6	U	7.7	U	7.8	U	7.5	U	7.4	U
		1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	NG/L	4.2	U	4	U	3.6	U	3.7	U	3.8	U	7.6	U	7.7	U	7.8	U	7.5	U	7.4	U
		Perfluorooctane sulfonamide (PFOSA)	NG/L	2.1	U	2	U	1.8	U	1.9	UJ	0.25	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		N-methyl perfluorooctanesulfonamide (NMeFOSA)	NG/L	4.2	U	4	U	3.6	U	0	R	1	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NG/L	NA		NA		NA		NA		1	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NG/L	4.2	U	4	U	3.6	U	3.7	U	1	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NG/L	4.2	U	4	U	3.6	U	3.7	U	1	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NG/L	NA		NA		NA		NA		2.5	U	19	U	19	U	19	U	19	U	19	U
		N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NG/L	NA		NA		NA		NA		5	U	19	U	19	U	19	U	19	U	19	U
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	NG/L	NA		NA		NA		NA		4	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NG/L	NA		NA		NA		NA		3.8	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		Perfluoro-3-methoxypropanoic acid (PFMPA)	NG/L	NA		NA		NA		NA		2	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		Perfluoro-4-methoxybutanoic acid (PFMBA)	NG/L	NA		NA		NA		NA		0.5	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NG/L	NA		NA		NA		NA		60	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NG/L	NA		NA		NA		NA		6.6	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NG/L	NA		NA		NA		NA		6.6	U	3.8	U	3.8	U	3.9	U	3.8	U	3.7	U
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NG/L	NA		NA		NA		NA		3.1	U	1.9	U	1.9	U	1.9	U	1.9	U	1.9	U
		3-Perfluoropropyl propanoic acid (3:3FTCA)	NG/L	NA		NA		NA		NA		8.8	UJ	9.5	U	9.7	U	9.4	U	9.3	U		
		2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NG/L	NA		NA		NA		NA		31	U	19	U	19	U	19	U	19	U		
		3-Perfluoroheptyl propanoic acid (7:3FTCA)	NG/L	NA		NA		NA		NA		31	U	19	U	19	U	19	U	19	U		

All notes can be found on Table 1-1.

Appendix L-4
Liquid IDW Sampling Results Table

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Location				IDW-EFF																			
Sample Date				7/12/2024		7/16/2024		7/31/2024				8/16/2024		9/11/2024				9/20/2024		9/26/2024			
Sample ID				LORNG_IDW-EFF06_07122024		LORNG_IDW-EFF07_07162024		LORNG_IDW-EFF08_07312024		LORNG_IDW-EFF09_07312024		LORNG_IDW-EFF10_08162024		LORNG_IDW-EFF11_08162024		LORNG_IDW-EFF12_09112024		LORNG_IDW-EFF13_09112024		LORNG_IDW-EFF14_09202024		LORNG_IDW-EFF15_09262024	
QC Code				N		N		N		N		N		N		N		N		N		N	
Latitude				46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271		46.9618271	
Longitude				-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601		-67.8824601	
Class	Fraction	Analyte Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PFAS	T	Perfluorobutanoic acid (PFBA)	NG/L	4	U	3.9	U	1.8	U	1.8	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		Perfluoropentanoic acid (PFPeA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorohexanoic acid (PFHxA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluoroheptanoic acid (PFHpA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorooctanoic acid (PFOA)	NG/L	0.99	U	0.97	U	0.22	U	0.23	U	0.91	U	0.91	U	1	U	0.98	U	0.98	U	1	U
		Perfluorononanoic acid (PFNA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorodecanoic acid (PFDA)	NG/L	2	U	1.9	U	0.89	U	0.91	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluoroundecanoic acid (PFUnA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorododecanoic acid (PFDoA)	NG/L	2	U	1.9	U	0.89	U	0.91	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorotridecanoic acid (PFTrDA)	NG/L	2	U	1.9	U	0.89	U	0.91	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorotetradecanoic acid (PFTeDA)	NG/L	2	U	1.9	U	0.45	U	0.46	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorobutanesulfonic acid (PFBS)	NG/L	2	U	1.9	U	0.39	U	0.4	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluoropentanesulfonic acid (PFPeS)	NG/L	4	U	3.9	U	0.42	U	0.43	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		Perfluorohexanesulfonic acid (PFHxS)	NG/L	2	U	1.9	U	0.42	U	0.43	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluoroheptanesulfonic acid (PFHpS)	NG/L	2	U	1.9	U	0.42	U	0.43	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorooctanesulfonic acid (PFOS)	NG/L	2	U	1.9	U	0.42	U	0.43	U	1.8	U	1.8	U	2	U	2	U	1.2	J	2.9	J
		Perfluorononanesulfonic acid (PFNS)	NG/L	2	U	1.9	U	0.84	U	0.86	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorodecanesulfonic acid (PFDS)	NG/L	2	U	1.9	U	0.42	U	0.43	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluorododecanesulfonic acid (PFDoS)	NG/L	4	U	3.9	U	0.89	U	0.91	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	NG/L	7.9	U	7.8	U	1.7	U	1.7	U	7.3	U	7.3	U	8	U	7.8	U	7.8	U	8	U
		1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	NG/L	7.9	U	7.8	U	1.7	U	1.7	U	7.3	U	7.3	U	8	U	7.8	U	7.8	U	8	U
		1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	NG/L	7.9	U	7.8	U	3.4	U	3.5	U	7.3	U	7.3	U	8	U	7.8	U	7.8	U	8	U
		Perfluorooctane sulfonamide (PFOSA)	NG/L	2	U	1.9	U	1.7	J	0.97	J	1.8	U	1.8	U	2	U	2	U	0.7	J	2	U
		N-methyl perfluorooctanesulfonamide (NMeFOSA)	NG/L	4	U	3.9	U	0.89	U	0.91	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NG/L	4	U	3.9	U	0.89	U	0.91	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NG/L	4	U	3.9	U	0.89	U	0.91	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NG/L	4	U	3.9	U	0.89	U	0.91	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NG/L	20	U	19	U	2.2	U	2.3	U	18	U	18	U	20	U	20	U	20	U	20	U
		N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NG/L	20	U	19	U	4.5	U	4.6	U	18	U	18	U	20	U	20	U	20	U	20	U
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	NG/L	2	U	1.9	U	3.6	U	3.6	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NG/L	4	U	3.9	U	3.4	U	3.5	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		Perfluoro-3-methoxypropanoic acid (PFMPA)	NG/L	2	U	1.9	U	1.8	U	1.8	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U
		Perfluoro-4-methoxybutanoic acid (PFMBA)	NG/L	4	U	3.9	U	0.45	U	0.46	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NG/L	4	U	3.9	U	53	U	55	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NG/L	4	U	3.9	U	5.9	U	6	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
		11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NG/L	4	U	3.9	U	5.9	U	6	U	3.6	U	3.6	U	4	U	3.9	U	3.9	U	4	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NG/L	2	U	1.9	U	2.8	U	2.8	U	1.8	U	1.8	U	2	U	2	U	2	U	2	U		
3-Perfluoropropyl propanoic acid (3:3FTCA)	NG/L	9.9	U	9.7	U	7.8	U	8	U	9.1	U	9.1	U	10	U	9.8	U	9.8	U	10	U		
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NG/L	20	U	19	U	28	U	28	U	18	U	18	U	20	U	20	U	20	U	20	U		
3-Perfluoroheptyl propanoic acid (7:3FTCA)	NG/L	20	U	19	U	28	U	28	U	18	U	18	U	20	U	20	U	20	U	20	U		

All notes can be found on Table 1-1.

Appendix L-4
Liquid IDW Sampling Results Table

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Location				IDW-EFF						IDW-INF							
Sample Date				10/18/2024		10/25/2024		11/4/2024		6/8/2022		6/15/2023		6/6/2024		6/21/2024	
Sample ID				LORNG_IDW_EFF16_10182024BF		LORNG_IDW_EFF17_10252024		LORNG_IDW_EFF18_11042024		LORNG_IDW-INF_06082022		LORNG_ND40IDW/INF_06152023		LORNG_IDW-INF01_06062024		LORNG_IDW-INF02_06212024	
QC Code				N		N		N		N		N		N		N	
Latitude				46.9618271		46.9618271		46.9618271		46.9618298		46.9618298		46.9618298		46.9618298	
Longitude				-67.8824601		-67.8824601		-67.8824601		-67.8824561		-67.8824561		-67.8824561		-67.8824561	
Class	Fraction	Analyte Name	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
PFAS	T	Perfluorobutanoic acid (PFBA)	NG/L	3.9 U		3.8 U		3.7 U		13.3		2.8 J		5.1 J		3.9 U	
		Perfluoropentanoic acid (PFPeA)	NG/L	2 U		1.9 U		1.8 U		32.2		6.6		6.9 J		4 J	
		Perfluorohexanoic acid (PFHxA)	NG/L	2 U		1.9 U		1.8 U		38.3		6.5		7.5		3.4 J	
		Perfluoroheptanoic acid (PFHpA)	NG/L	2 U		1.9 U		1.8 U		14.6		3		2.2 J		1.1 J	
		Perfluorooctanoic acid (PFOA)	NG/L	0.98 U		0.94 U		0.92 U		25.6		7.5		3 J		0.84 J	
		Perfluorononanoic acid (PFNA)	NG/L	2 U		1.9 U		1.8 U		1.8 J		0.45 J		2 U		1.9 U	
		Perfluorodecanoic acid (PFDA)	NG/L	2 U		1.9 U		1.8 U		2 U		1 U		2 U		1.9 U	
		Perfluoroundecanoic acid (PFUnA)	NG/L	2 U		1.9 U		1.8 U		2 U		0.5 U		2 U		1.9 U	
		Perfluorododecanoic acid (PFDoA)	NG/L	2 U		1.9 U		1.8 U		2 U		1 U		2 U		1.9 U	
		Perfluorotridecanoic acid (PFTriDA)	NG/L	2 U		1.9 U		1.8 U		2 U		1 U		2 U		1.9 U	
		Perfluorotetradecanoic acid (PFTeDA)	NG/L	2 U		1.9 U		1.8 U		2 U		0.5 U		2 U		1.9 U	
		Perfluorobutanesulfonic acid (PFBS)	NG/L	2 U		1.9 U		1.8 U		19.9		1.6		3.2 J		0.64 J	
		Perfluoropentanesulfonic acid (PFPeS)	NG/L	3.9 U		3.8 U		3.7 U		12.1		1.8		3 J		3.9 U	
		Perfluorohexanesulfonic acid (PFHxS)	NG/L	2 U		1.9 U		1.8 U		97.8		30		14.7		2.9 J	
		Perfluoroheptanesulfonic acid (PFHpS)	NG/L	2 U		1.9 U		1.8 U		5.2		0.56 J		2 U		1.9 U	
		Perfluorooctanesulfonic acid (PFOS)	NG/L	2 U		1.9 U		1.8 U		226		39		4.4		1.6 J	
		Perfluorononanesulfonic acid (PFNS)	NG/L	2 U		1.9 U		1.8 U		2 U		0.94 U		2 U		1.9 U	
		Perfluorodecanesulfonic acid (PFDS)	NG/L	2 U		1.9 U		1.8 U		2 U		0.47 U		2 U		1.9 U	
		Perfluorododecanesulfonic acid (PFDoS)	NG/L	3.9 U		3.8 U		3.7 U		NA		1 U		4 U		3.9 U	
		1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	NG/L	7.8 U		7.5 U		7.3 U		4 U		1.9 U		8 U		7.8 U	
		1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	NG/L	7.8 U		7.5 U		7.3 U		23.5		1.9 U		8 U		7.8 U	
		1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	NG/L	7.8 U		7.5 U		7.3 U		2.5 J		3.8 U		8 U		7.8 U	
		Perfluorooctane sulfonamide (PFOSA)	NG/L	2 U		1.9 U		1.8 U		1.6 J		0.69 J		2 U		1.9 U	
		N-methyl perfluorooctanesulfonamide (NMeFOSA)	NG/L	3.9 U		3.8 U		3.7 U		4 U		1 U		4 U		3.9 U	
		N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NG/L	3.9 U		3.8 U		3.7 U		NA		1 U		4 U		3.9 U	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	NG/L	3.9 U		3.8 U		3.7 U		4 U		1 U		4 U		3.9 U	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	NG/L	3.9 U		3.8 U		3.7 U		4 U		1 U		4 U		3.9 U	
		N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	NG/L	20 U		19 U		18 U		NA		2.5 U		20 U		19 U	
		N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	NG/L	20 U		19 U		18 U		NA		5 U		20 U		19 U	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)	NG/L	2 U		1.9 U		1.8 U		NA		4 U		2 U		1.9 U	
		4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NG/L	3.9 U		3.8 U		3.7 U		NA		3.8 U		4 U		3.9 U	
		Perfluoro-3-methoxypropanoic acid (PFMPA)	NG/L	2 U		1.9 U		1.8 U		NA		2 U		2 U		1.9 U	
		Perfluoro-4-methoxybutanoic acid (PFMBA)	NG/L	3.9 U		3.8 U		3.7 U		NA		0.5 U		4 U		3.9 U	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NG/L	3.9 U		3.8 U		3.7 U		NA		60 U		4 U		3.9 U	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	NG/L	3.9 U		3.8 U		3.7 U		NA		6.6 U		4 U		3.9 U	
		11-Chlororeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	NG/L	3.9 U		3.8 U		3.7 U		NA		6.6 U		4 U		3.9 U	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	NG/L	2 U		1.9 U		1.8 U		NA		3.1 U		2 U		1.9 U	
		3-Perfluoropropyl propanoic acid (3:3FTCA)	NG/L	9.8 U		9.4 U		9.2 U		NA		11 UJ		10 U		9.7 U	
		2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	NG/L	20 U		19 U		18 U		NA		31 U		20 U		19 U	
		3-Perfluoroheptyl propanoic acid (7:3FTCA)	NG/L	20 U		19 U		18 U		NA		31 U		20 U		19 U	

All notes can be found on Table 1-1.

APPENDIX L-5

IDW FIELD DATA RECORDS

ON-site IDW Treatment System

EQUIPMENT BLANK RECORD - FOR INTERNAL TRACKING



511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME PFAS RI at the Former Loring Air Force Base, Limestone, Maine	
PROJECT NUMBER 775361701.300.310	
SAMPLE ID See below	SAMPLE TIME See below

EQUIPMENT BLANK NO. LORNG-IDW-EFF	DATE 6/8/22
START TIME 0845	END TIME 0948
SITE NAME/INSTALLATION Former Loring Air Force Base	PAGE 1 OF 1

EQUIPMENT BLANK- DRILLING/ HAND AUGER/ SOIL SAMPLING

RIG INFORMATION:

ASSOCIATED RIG TYPE: _____
PREVIOUS LOCATION(S): _____
NEXT LOCATION(S): _____
SUBCONTRACTOR: _____
OPERATOR: _____
OPERATOR: _____

EQUIPMENT RINSATE OFF OF:

☐ SAMPLE ROD
☐ SHOE/ BIT
☐ STAINLESS STEEL BOWL AND SPOON
☐ ACETATE LINER (BRAND): _____
☐ HAND AUGER
☐ OTHER _____

DECON MATERIALS/PROCEDURE:

☐ PRESSURE WASH WITH MUNICIPAL WATER AND ALCONOX
☐ FINAL RINSE WITH PFAS-FREE DI, ORIGIN: _____
☐ OTHER: _____

SAMPLE COLLECTION:

☐ LAB-CERTIFIED PFAS FREE DI WATER ID# _____
☐ LAB-CERTIFIED PFAS FREE DI WATER ID# _____

EQUIPMENT BLANK- GROUNDWATER/ SURFACE WATER

SAMPLING INFORMATION

PREVIOUS LOCATION(S): _____
NEXT LOCATION(S): _____

EQUIPMENT RINSATE OFF OF:

☐ GEOSUB ID#: _____
☐ WATERRA ID# _____
☐ BLADDER PUMP ID# _____
Bladder Material: _____
☐ OTHER _____

TUBING USED: ☐ SILICON TUBING
☐ HDPE TUBING

DECON MATERIALS/PROCEDURE:

☐ MUNICIPAL WATER
☐ OTHER WATER: _____
☐ ALCONOX/ LIQUINOX
☐ DEIONIZED WATER, ORIGIN: _____
☐ FINAL RINSE WITH PFAS-FREE DI, ORIGIN: _____

SAMPLE COLLECTION:

☐ LAB-CERTIFIED PFAS FREE DI WATER ID# _____
☐ OTHER _____

EQUIPMENT BLANK- OTHER

DESCRIBE LOCATIONS, EQUIPMENT, ETC.

Samples collected from the on-site IDW treatment system.
0905 sample collected for PFAS LORNG-IDW-INF_06082022
0910 sample collected for PFAS LORNG-IDW-EFF_06082022

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ PFAS	LC/MS/MS	DoD 25 List	NO	4°C	2 x 250 mL HDPE	NONE

PURGE OBSERVATIONS

DECON WATER CONTAINERIZED ☐ YES ☒ NO ☐ NUMBER OF GALLONS GENERATED N/A

NOTES:

- INF sample collected using dip method from the top of the large white frac tank
- EFF sample collected from a sample port located on the bottom of the second GAC unit. Port is prior to entering the red 21K frac tank

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: Tyler Cunningham Print Name: Tyler Cunningham
Checked By: ETI AW Date: 7/23/22

None

wood.

PROJECT NAME	
PFAS RI at the Former Loring Air Force Base, Limestone, Maine	
PROJECT NUMBER	
775361701.300.310	
SAMPLE ID	SAMPLE TIME
LRNG-EFF03-07262022	1150

LOCATION ID 104 tank 01	DATE 7-26-22
START TIME 1140	END TIME 1155
SITE NAME/INSTALLATION Former Loring Air Force Base	PAGE 1 OF 1

SAMPLE TYPE: ☐ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☒ OTHER: Tank
B.S.

[illegible]

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

TYPE OF PUMP	<u>DECON FLUIDS USED</u>	<u>TUBING/PUMP/BLEEDER MATERIALS</u>	<u>EQUIPMENT USED</u>
☒ PERISTALTIC	☐ ALCONOX	☒ SILICON TUBING	☐ WT. METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☒ HDPE TUBING	☐ PID
☐ BLADDER _____	☐ POTABLE WATER	☐ LDPE TUBING	☐ WQ METER
☐ WATERA _____	☐ NITRIC ACID	☐ OTHER _____	☐ TURB. METER <i>nno</i>
☐ HYDRASLEEVE _____	☐ HEXANE	☐ OTHER _____	☐ PUMP
☐ OTHER _____	☐ METHANOL	☐ OTHER _____	☐ OTHER _____
	☒ OTHER <i>Dedicated tubing</i>		☐ FILTERS NO. ____ TYPE ____

[illegible]

PURGE WATER CONTAINERIZED ☐ YES ☒ NO

NO-PURGE METHOD UTILIZED ☒ YES ☐ NO

NUMBER OF GALLONS GENERATED 0

NOTES:
collected from 15W water Grace tank
upon filling it. Results to determine
discharge ability.

Checked By: B. Schoonveld

Date: 9/14/22

None.

20,080 gallons in tank.
collected at hatch entrance w/ peri.
intake 6' down (1/2 way down water column)



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF05

General

Date	06/25/2024	Time	13:25
Location ID	IDW-EFF05	Start Time	13:20
End Time	13:30	Sample ID	LORNG_IDW-EFF05_06252024
Sample Time	13:30	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameter needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	No	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from second full frac tank after treatment with new treatment system (tank #3)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF06

General

Date	07/12/2024	Time	15:00
Location ID	IDW-EFF06	Start Time	14:55
End Time	15:00	Sample ID	LORNG_IDW-EFF06_07122024
Sample Time	15:00	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Deionized water, Alconox
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from third full frac tank after treatment with new treatment system (tank#4)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF07

General

Date	07/16/2024	Time	13:55
Location ID	IDW-EFF07	Start Time	13:50
End Time	13:55	Sample ID	LORNG_IDW-EFF07_07162024
Sample Time	13:55	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from fourth full frac tank after treatment with new treatment system (frac tank#3)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF08

General

Date	07/31/2024	Time	10:25
Location ID	IDW-EFF08	Start Time	10:20
End Time	10:25	Sample ID	LORNG_IDW-EFF08_07312024
Sample Time	10:25	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from fifth full frac tank with new treatment system (frac tank #4)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF09

General

Date	07/31/2024	Time	10:50
Location ID	IDW-EFF09	Start Time	10:50
End Time	10:55	Sample ID	LORNG_IDW-EFF09_07312024
Sample Time	10:55	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from sixth full frac tank with new treatment system (frac tank #3)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF14

General

Date	09/20/2024	Time	08:10
Location ID	IDW-EFF14	Start Time	08:10
End Time	08:15	Sample ID	LORNG_IDW-EFF14_09202024
Sample Time	08:15	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-09	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from ninth full frac tank with new treatment system (frac tank #3)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF15

General

Date	09/26/2024	Time	13:05
Location ID	IDW-EFF15	Start Time	13:05
End Time	13:10	Sample ID	LORNG_IDW-EFF15_09262024
Sample Time	13:10	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-09	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from tenth full frac tank with new treatment system (tank#4)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF17

General

Date	10/25/2024	Time	10:20
Location ID	IDW-EFF17	Start Time	10:15
End Time	10:20	Sample ID	LORNG_IDW-EFF17_10252024
Sample Time	10:20	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-09	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from frac tank #4 after treatment with new treatment system		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF01

General

Date	06/07/2024	Time	10:50
Location ID	IDW-EFF01	Start Time	10:45
End Time	10:50	Sample ID	LORNG_IDW-EFF01_06072024
Sample Time	10:50	Sample Type	IDW

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	
Logbook	23-09	Tubing/Pump/Bladder Materials	HDPE, Silicone
Equipment Used		WL Meter	
PID		WQ Meter	3510-1379
Turbidity Meter	3550-1368	Pump	4000-1374
Other		Filter Type	
Filter Number			

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
NA	NA	23.7	0.385	3.61	8.67	211.2	25.1	0.5	

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	PFAS 49 List	No	4C	2x500mL, 1x60mL	None

Observations

Purge Water Containerized	Yes	No Purge Method Utilized	No
Number of Gallons Generated	1	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Flynn Dorn	Checked By Date	7/2/2024
Remarks	Collected from Frac Tank #1 holding water that was treated with GAC but without bag filtration. Collected before retreatment.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

Approved By:	Josh Fletcher on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Stephen Cochrane on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Lindsey Papa on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Madison Dinsmore on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Eric Bagley on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Michael Lounsbury on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Natalie Meenan on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Flynn Dorn on Jul 2, 2024 7:57 PM (GMT)
Approved By:	Caitlan Vultaggio on Jul 2, 2024 7:57 PM (GMT)



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF02

General

Date	06/07/2024	Time	11:00
Location ID	IDW-EFF02	Start Time	10:55
End Time	11:00	Sample ID	LORNG_IDW-EFF02_06072024
Sample Time	11:00	Sample Type	IDW

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	
Logbook	23-09	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing
Equipment Used		WL Meter	
PID		WQ Meter	3510-1379
Turbidity Meter	3550-1368	Pump	4000-1374
Other		Filter Type	
Filter Number			

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
NA	NA	25.1	0.256	3.17	8.49	187.9	0.02		

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	PFAS 40 List	No	4C	2x500mL, 1x60mL	None

Observations

Purge Water Containerized	Yes	No Purge Method Utilized	No
Number of Gallons Generated	1	Deviations from the Work Plan	Frac Tank #1 was pumped through GAC with no bag filters installed.
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Flynn Dorn	Checked By Date	7/2/2024
Remarks	Collected from Frac Tank #2 holding water that has been treated twice with GAC and once with bag filters. Water from Frac Tank #1 was pumped through treatment system into Frac Tank #2		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

Approved By:	<u>Josh Fletcher on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Stephen Cochrane on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Lindsey Papa on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Madison Dinsmore on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Eric Bagley on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Michael Lounsbury on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Natalie Meenan on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Flynn Dorn on Jul 2, 2024 7:58 PM (GMT)</u>
Approved By:	<u>Caitlan Vultaggio on Jul 2, 2024 7:58 PM (GMT)</u>



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF03

General

Date	06/21/2024	Time	11:50
Location ID	IDW-EFF03	Start Time	11:45
End Time	11:50	Sample ID	LORNG_IDW-EFF03_06212024
Sample Time	11:50	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	23-13	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
		22.5	0.391	3.87	8.23	44.2	0.02		

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	No	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from first full frac tank after new treatment system (frac tank #4)		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF04

General

Date	06/24/2024	Time	15:00
Location ID	IDW-EFF04	Start Time	14:55
End Time	15:00	Sample ID	LORNG_IDW-EFF04_06242024
Sample Time	15:00	Sample Type	IDW

Equipment

Type of Pump	None	Decon Fluids Used	None
Logbook	23-13	Tubing/Pump/Bladder Materials	None
Equipment Used		WL Meter	None
PID	None	WQ Meter	3510-1405
Turbidity Meter	3550-1270	Pump	None
Other	None	Filter Type	None
Filter Number			

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
0	0	19.0	0.481	3.03	8.38	29.4	0.02		

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	DoD PFAS 40 List	No	4°C	2x500mL, 1x60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Flynn Dorn	Checked By Date	7/3/2024
Remarks	Collected from valve of 1 micron bag filter unit, after carbon treatment but before holding tank		

Approved By: Josh Fletcher on Jul 3, 2024 5:50 PM (GMT)



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

Approved By:	<u>Stephen Cochrane on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Lindsey Papa on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Madison Dinsmore on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Eric Bagley on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Michael Lounsbury on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Natalie Meenan on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Flynn Dorn on Jul 3, 2024 5:50 PM (GMT)</u>
Approved By:	<u>Caitlan Vultaggio on Jul 3, 2024 5:50 PM (GMT)</u>



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF10

General

Date	08/16/2024	Time	11:00
Location ID	IDW-EFF10	Start Time	11:00
End Time	11:05	Sample ID	LORNG_IDW-EFF10_08162024
Sample Time	11:00	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-08	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing
Pump	S008-10		

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Parameters not required

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	DoD 40	No	4 degrees C	1x60 mL and 2x500 mL HDPE	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None noted
Sampler Name	Flynn Dorn	Checked By	Eric Bagley
Checked By Date	2/27/2025		
Remarks	Effluent from fifth full trac tank after treatment with new treatment system (tank #4). Resampled due to PFOSA detection.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF11

General

Date	08/16/2024	Time	11:11
Location ID	IDW-EFF11	Start Time	11:10
End Time	11:15	Sample ID	LORNG_IDW-EFF11_08162024
Sample Time	11:10	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-08	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing
Pump	S008-10		

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Parameters not required

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	DoD 40	No	4 degrees C	1x60 mL 2x500 mL HDPE	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Flynn Dorn	Checked By	Eric Bagley
Checked By Date	2/27/2025		
Remarks	Effluent from sixth full frac tank (tank #3) after treatment with new system. Resampled due to PFOSA detection.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF12

General

Date	09/11/2024	Time	08:32
Location ID	IDW-EFF12	Start Time	08:38
End Time	08:42	Sample ID	LORNG_IDW-EFF12_09112024
Sample Time	08:40	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Logbook	24-08
Decon Fluids Used	Alconox, Deionized water	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing
WL Meter	NA	PID	NA
WQ Meter	NA	Turbidity Meter	NA
Pump	S00810	Other	NA
Filter Type	NA	Filter Number	

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Parameters not collected

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft 1633	DoD 40	NA	4 C	2x500 mL and 1x60mL HDPE	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Flynn Dorn	Checked By Date	EDB 2/27/2025
Remarks	Treated effluent from Frac Tank #3. Analysis required for approval to discharge.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF13

General

Date	09/11/2024	Time	08:46
Location ID	IDW-EFF13	Start Time	08:46
End Time	08:50	Sample ID	LORNG_IDW-EFF13_09112024
Sample Time	08:50	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-08	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing
WL Meter	NA	PID	NA
WQ Meter	NA	Turbidity Meter	NA
Pump	S00810	Other	NA
Filter Type	NA		

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Parameters not collected

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft 1633	DoD 40	No	4 C	2x500mL and 1x60mL HDPE	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None noted
Sampler Name	Flynn Dorn	Checked By	Eric Bagley
Checked By Date	2/27/2025		
Remarks	Treated effluent from Frac Tank #4. Analysis required for approval to discharge.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF16

General

Date	10/18/2024	Time	09:20
Location ID	IDW-EFF16	Start Time	09:20
End Time	09:30	Sample ID	LORNG_IDW-EFF16_10182024
Sample Time	09:30	Sample Type	Groundwater

Equipment

Type of Pump		Logbook	24-13
Decon Fluids Used		Tubing/Pump/Bladder Materials	
Equipment Used		WL Meter	NA
PID	NA	WQ Meter	NA
Turbidity Meter	NA	Pump	NA
Other	NA	Filter Type	NA
Filter Number			

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Grab sample-stabilization parameters not required

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft 1633	DoD 40	No	4 degrees C	2x500 mL and 1x60mL HDPE	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None noted
Sampler Name	Flynn Dorn	Sampler Signature	 Flynn Dorn
Checked By	Natalie Meenan	Checked By Date	12/09/2024



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

Remarks Dip sample of treated effluent from Frac Tank #3. Analysis required for approval to discharge.

Approved By:	<u>Stephen Cochrane on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Lindsey Papa on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Maria Stopenski on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Madison Dinsmore on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Maria Guerra on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Eric Bagley on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Michael Lounsbury on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Natalie Meenan on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Flynn Dorn on Dec 9, 2024 4:23 PM (GMT)</u>
Approved By:	<u>Caitlan Vultaggio on Dec 9, 2024 4:23 PM (GMT)</u>



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-EFF18

General

Date	11/04/2024	Time	09:05
Location ID	IDW-EFF18	Start Time	09:05
End Time	09:10	Sample ID	LORNG_IDW-EFF18_11042024
Sample Time	09:10	Sample Type	Groundwater

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	Alconox, Deionized water
Logbook	24-09	Tubing/Pump/Bladder Materials	HDPE tubing, Silicon tubing

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 500mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Effluent from frac tank #3 after treatment of all remaining IDW		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-INF01

General

Date	06/06/2024	Time	13:55
Location ID	IDW-INF01	Start Time	13:50
End Time	13:55	Sample ID	LORNG_IDW-INF01_06062024
Sample Time	13:55	Sample Type	IDW

Equipment

Type of Pump	Peristaltic	Decon Fluids Used	None
Logbook	23-09	Tubing/Pump/Bladder Materials	HDPE, Silicone
Equipment Used		WL Meter	
PID		WQ Meter	3510-1379
Turbidity Meter	3550-1368	Pump	4000-1374
Other		Filter Type	
Filter Number			

Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
NA	NA								Parameters not measured.

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Draft Method 1633	PFAS 40 List	No	4C	2x500mL, 1x60mL	

Observations

Purge Water Containerized	NA	No Purge Method Utilized	No
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Flynn Dorn	Checked By Date	7/2/2024
Remarks	Taken from ball valve of bag filter unit after filtering but before carbon treatment.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

Approved By:	Josh Fletcher on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Stephen Cochrane on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Lindsey Papa on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Madison Dinsmore on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Eric Bagley on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Michael Lounsbury on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Natalie Meenan on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Flynn Dorn on Jul 2, 2024 7:59 PM (GMT)
Approved By:	Caitlan Vultaggio on Jul 2, 2024 7:59 PM (GMT)



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

IDW-INF02

General

Date	06/21/2024	Time	11:35
Location ID	IDW-INF02	Start Time	10:35
End Time	10:40	Sample ID	LORNG_IDW-INF02_06212024
Sample Time	10:40	Sample Type	Groundwater

Equipment

Logbook	23-13
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Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									Influent collected from sampling valve of bag filter unit before GAC to pair with IDW-EFF03

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	2 x 400mL, 1 x 60mL	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Influent collected to pair with new treatment system		

GRAB SAMPLING RECORD - WATER

wood.511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME PFAS RI at the Former Loring Air Force Base, Limestone, Maine	
PROJECT NUMBER 775361701.300.310	
SAMPLE ID <u>LORNG-LISOURCE</u>	SAMPLE TIME <u>10:35</u>

LOCATION ID <u>Limestone SWD</u>	DATE <u>5-5-22</u>
START TIME <u>1029</u>	END TIME <u>1036</u>
SITE NAME/INSTALLATION Former Loring Air Force Base	PAGE 1 OF 1

SAMPLE TYPE: ☐ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☒ OTHER: Source Water

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	SP. CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>NO PARAMETERS COLLECTED</u>										

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☐ SUBMERSIBLE ☐ BLADDER ☐ WATERA ☐ HYDRASLEEVE ☐ OTHER	DECON FLUIDS USED ☐ ALCONOX ☐ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☐ HEXANE ☐ METHANOL ☐ OTHER <u>purged line</u>	TUBING/PUMP/BLADDER MATERIALS ☐ SILICON TUBING ☐ HDPE TUBING ☐ LDPE TUBING ☐ OTHER ☒ S. STEEL PUMP MATERIAL ☐ PVC PUMP MATERIAL ☐ GEOPROBE SCREEN ☐ OTHER ☐ OTHER	EQUIPMENT USED ☐ WL METER ☐ PHD ☐ WQ METER ☐ TURB. METER ☐ PUMP ☐ OTHER ☐ FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
<u>PFAS</u>	<u>LC/MS/MS</u>	<u>DoD 25 List</u>	<u>N</u>	<u>4°C</u>	<u>2 x 250 mL HDPE</u>	<u>none</u>

PURGE OBSERVATIONS

PURGE WATER YES ☐ NO ☒
 CONTAINERIZED YES ☐ NO ☒
 NO-PURGE METHOD YES ☐ NO ☒
 UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED ~ 45

NOTES:

collected from water source in Limestone sewer and water district. Purged for 5 mins prior

DEVIATIONS FROM THE WORK PLAN:

to collection directly from 2" port. Minimized flow as much as possible but high pressure.

Sampler Signature: M. Bruno Print Name: M. Bruno

Checked By: [Signature] Date: 7/18/22

GRAB SAMPLING RECORD - WATER

wood.

511 Congress Street
Suite 200
Portland, Maine 04101

PROJECT NAME PFAS RI at the Former Loring Air Force Base, Limestone, Maine	
PROJECT NUMBER 775361701.300.310	
SAMPLE ID	SAMPLE TIME

LOCATION ID IDN FRAC	DATE 29 Aug 2022
START TIME 1330	END TIME 1410
SITE NAME/INSTALLATION Former Loring Air Force Base	PAGE 1 OF 1

SAMPLE TYPE: ☐ GROUNDWATER ☐ SURFACE WATER ☐ STORM WATER ☐ DRINKING WATER ☐ PORE WATER ☒ OTHER: Fracture IDN

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QPP)

TIME	DTW (FT)	PURGE RATE (mL/min)	TEMP. (°C) ±3%	CONDUCTANCE (mS/cm) ±3%	DISS. O ₂ (mg/L) ±10% or 3 values <0.5 mg/L	pH (units) ±0.1	REDOX (mv) ±10 mv	TURBIDITY (ntu) ±10% and <10 ntu or 3 values <5 ntu	PUMP INTAKE DEPTH (ft)	COMMENTS
1330	→	Pump begin								pump set @ 1/2 depth of column
		~ 1 gpm purge rate →								
1410		Filled 10 / 1 gal Bottles								→ end pump

FINAL STABILIZED FIELD PARAMETERS (rounded to appropriate significant figures)

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 significant figure (SF) max (ex. 1.686 = 1.69)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☒ PERISTALTIC		☐ ALCONOX		☒ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER	
☐ SUBMERSIBLE		☐ DEIONIZED WATER		☒ HDPE TUBING	☐ PVC PUMP MATERIAL	☐ PID	
☐ BLADDER		☐ POTABLE WATER		☐ LDPE TUBING	☐ GEOPROBE SCREEN	☐ WQ METER	
☐ WATTEA		☐ NITRIC ACID		☐ OTHER	☐ OTHER	☒ TURB. METER	
☐ HYDRASLEEVE		☐ HEXANE		☐ OTHER	☐ OTHER	☒ PUMP #50497	
☐ OTHER		☐ METHANOL		☐ OTHER	☐ OTHER	☐ OTHER	
		☐ OTHER				☐ FILTERS NO. TYPE	

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	ANALYTE LIST	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	QC COLLECTED
☒ PFAS	LC/MS/MS	DoD 25 List		4°C	2 x 250 mL HDPE	

PURGE OBSERVATIONS

PURGE WATER	YES	NO	NUMBER OF GALLONS GENERATED <u>10</u>
CONTAINERIZED	☒	☐	
NO-PURGE METHOD UTILIZED	YES	NO	
	☐	☐	

NOTES:

Used geo-pump #50497
Filled 10 / 1 gal Bottles

DEVIATIONS FROM THE WORK PLAN:

Sampler Signature: [Signature] Print Name: M. Turner
Checked By: B. Schoonard Date: 9/14/22



SOIL SAMPLE COLLECTION LOG

Project Name: Remedial Investigation at the Former Loring AFB, Limestone, ME Project Number: 775361701.300.310
Contract: FA8903-16-D-0027 Task Order: 1048
Installation: LORNG Date: 05/24/2022
Location ID: SR-IDW-01 Technician: HM + ML
Other Wood Representatives: Hannah Mellecker and Mike Larnsbury

Sample ID	Sample Time	Sample Depth (ft)	USCS Symbol	Comments/Observations
LORNG-SR-IDW-01-05242022	14:45	Soil roll-off #1	GC/SC/ML	composite sample of soil roll-off #1
				various soil types range from light brown to dark brown to black, mixtures of silty sand, gravel, clay, rock flour, moist to dry

Sample Collection Method: grab - S.S. bowl + spoon Analysis/Method(s): PFAS, see below
Sample Container Type(s): 1x 2oz, 1x 4oz, 3x 8oz Preservative(s): 40C

Notes:

other analysis: VOCs, SVOCs, PCBs, pH, corrosivity, ignitability, reactive CN, and Sulfide

Technician Signature:

Technician Name (print):

Hannah Mellecker

QA/QC'd by:

Thomas W. Hensel

QA/QC Date:



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

SR_IDW_01

General

Date	06/26/2024	Time	08:00
Location ID	SR_IDW_01	Start Time	07:55
End Time	08:00	Sample ID	LORNG_SR_IDW_01_06262024
Sample Time	08:00	Sample Type	Composite soil

Equipment

Logbook	23-12
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Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters needed

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	6oz HDPE jar	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Soil composited from 3 soil roll offs for waste characterization. Used clean stainless steel bowl and spoon.		



Grab Sampling Record - Water
Site: Loring AFB
118 Georgia Rd, Limestone, Maine 04750
Client: Air Force

Project No: 775361701

SR_IDW_02

General

Date	10/01/2024	Time	17:40
Location ID	SR_IDW_02	Start Time	17:30
End Time	17:40	Sample ID	LORNG_SR_IDW_02_10012024
Sample Time	17:40	Sample Type	Composite carbon

Equipment

Logbook	24-09
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Stabilization Parameters

DTW (ft)	Purge Rate (mL/min)	Temp (°C)	Sp. Conductanc (mS/cm)	DO (mg/L)	pH (units)	Redox (mv)	Turbidity (NTU)	Pump Intake Depth (ft)	Remarks
									No parameters collected

Analytical Parameters

Parameter	Method Number	Analyte List	Field Filtered	Preservation Method	Volume Required	QC Collected
PFAS	Method 1633	DoD 40 List	NA	4C	6oz HDPE	None
Total Metals	6010C	RCRA-8 Metals	NA	4C	8oz glass	None

Observations

Purge Water Containerized	NA	No Purge Method Utilized	NA
Number of Gallons Generated	0	Deviations from the Work Plan	None
Sampler Name	Eric Bagley	Sampler Signature	 Eric Bagley
Checked By	Reid Fedors	Checked By Date	3/4/2025
Remarks	Composite GAC sample taken from 6 carbon vessels, 3 carbon drums, and carbon buckets		



SOIL SAMPLE COLLECTION LOG

Project Name:	Remedial Investigation at the Former Loring AFB, Limestone, ME	Project Number:	775361701.300.310
Contract:	FA8903-16-D-0027	Task Order:	1048
Installation:	LORNG	Date:	10/18/2022
Location ID:	EB LORNG-SR-IDW-02-10182022 EB	Technician:	Eric Bagley
Other Wood Representatives:	None		

Sample ID	Sample Time	Sample Depth (ft)	USCS Symbol	Comments/Observations
LORNG-SR-IDW-02-10182022	1520	Top of carbon vessel	N/A	Composite sample of granular activated carbon (GAC) used for treatment of investigative waste water

Sample Collection Method:	grab, S.S. bowl and spoon	Analysis/Method(s):	PFAS and others, see notes
Sample Container Type(s):		Preservative(s):	4°C

Notes: Other analyses: TCLP: VOCs, SVOCs, RCRA 8 metals, Pesticides, Herbicides and pH/corrosivity, ignitability, reactivity of CN & Sulfide, Total PCBs	Technician Signature:
	Technician Name (print): Eric Bagley

QA/QC'd by:	Thomas W. Hensel 	QA/QC Date:	10-31-22
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SURFACE WATER AND SEDIMENT SAMPLING RECORD

wood.

511 Congress Street, Portland Maine 04101

PROJECT NAME Remedial Investigation at the Former Loring AFB, Limestone ME	
PROJECT NUMBER 775361701.300.310	
SAMPLE ID SR_IDW_03_11/14/2022	SAMPLE TIME 10:00

SAMPLE LOCATION LORING	DATE 11/14/22
START TIME 9:55	END TIME 10:00
SITE NAME/NUMBER Former Loring AFB	PAGE 1 OF 1

SURFACE/PORE WATER DATA

☐ Surface Water ☐ Porewater

WATER DEPTH AT SAMPLE LOCATION _____ FT.

DEPTH OF SAMPLE BELOW WATER SURFACE _____ FT.

FLOW RATE _____ ML/MIN

WATER QUALITY PARAMETERS

TEMPERATURE _____ °C
SPEC. COND. _____ mS/cm
PH _____ pH Units
ORP _____ mV
TURBIDITY _____ NTUs
DO _____ mg/L

☐ WINKLER METHOD
☐ DO PROBE

EQUIPMENT USED

☐ BEAKER
☐ BOTTLE
☐ FACS BOMB
☐ PUMP
☐ FILTER
No. _____ Type _____

☐ FIELD DUPLICATE COLLECTED
DUP. ID _____

TYPE OF SURFACE WATER

☐ STREAM
☐ RIVER
☐ LAKE
☐ POND
☐ SEEP

FIELD SKETCH SHOWN/ATTACHED

☐ YES ☐ NO

DECON FLUIDS USED

☐ ALL USED
☐ LIQUINOX/DI H₂O SOLUTION
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

SAMPLING EQUIPMENT

WATER QUALITY METER MODEL NO. _____ UNIT ID NO. _____
TURBIDITY METER MODEL NO. _____ UNIT ID NO. _____

SEDIMENT/HYDRIC SOIL SAMPLE INFORMATION

TYPE OF SAMPLE

☐ DISCRETE
☒ COMPOSITE

QC SAMPLES

☐ DUPLICATE
☐ EQ BLK _____

MS/MSD:

☐ YES
☐ NO

USCS DESCRIPTION

SAMPLE INTERVAL:

TOP _____
BOTTOM _____

TYPE OF MATERIAL:

☒ ORGANIC
☒ SAND
☐ GRAVEL
☐ CLAY
☐ FILL
☒ OTHER *topsoil*

COLLECTION EQUIPMENT

☐ HAND AUGER/CORER
☐ S.S. SPLIT BARREL
☐ ALUMINIUM PAN
☐ S.S. SHOVEL
☒ HAND SPOON/SPATULA
☐ S.S. BUCKET
☐ OTHER _____

SAMPLE OBSERVATIONS

ODOR _____
COLOR _____
OTHER _____
PID _____

DECON FLUIDS USED

☐ ALL USED
☐ LIQUINOX/DI H₂O SOLUTION
☐ DEIONIZED WATER
☐ POTABLE WATER
☐ NITRIC ACID
☐ HEXANE
☐ 25% METHANOL/75% ASTM TYPE II H₂O
☐ ETHYL ALCOHOL

FIELD SKETCH SHOWN/ATTACHED

☐ YES
☐ NO

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED
☒	Total PCBs		4 deg C	8 oz	Y	NA
☒	TCLP VOCs		4 deg C	8 oz	Y	NA
☒	TCLP VOSVOC		4 deg C	8 oz	Y	NA
☒	TCLP RCRA 8 metals		4 deg C	8 oz	Y	NA
☒	TCLP Pest		4 deg C	8 oz	Y	NA
☒	TCLP Herb		4 deg C	8 oz	Y	NA
☒	pH/Corrosivity		4 deg C	8 oz	Y	NA
☒	Ignitability		4 deg C	8 oz	Y	NA
☒	Reactivity-CN and Sulfide		4 deg C	8 oz	Y	NA

NOTES/SKETCH

none

Sampler Signature: *Josh Fletcher* Print Name: Josh Fletcher
Checked By: *MB* Date: 11-16-22