

November 1, 2018

89 Crawford Street

Leominster, Massachusetts 01453

Tel: 774.450.7177 Fax: 888.835.0617 www.lrt-llc.net

US Environmental Protection Agency Dewatering GP Processing Industrial Permit Unit (OEP 06- 4) 5 Post Office Square – Suite 100 Boston, MA 02109-3912

**Reference:** Notice of Intent (NOI) - Dewatering General Permit (DGP)

Fallon Residence 59 Nick Trail

Mashpee, Massachusetts

#### Dear Sir/Madam:

On behalf of John and Cheryl Fallon Trustees, Lockwood Remediation Technologies, LLC (LRT) has prepared this Notice of Intent (NOI) requesting a determination of coverage under the United States Environmental Protection Agency's (EPA's) Dewatering General Permit (DGP), pursuant EPA's National Pollutant Discharge Elimination System (NPDES) program. This NOI was prepared in accordance with the general requirements of the NPDES and related guidance documentation provided by EPA. The completed NOI Form is provided in **Appendix A**.

#### **Site Information**

This NOI has been prepared for the management of water that will be generated during dewatering activities associated with the construction of a single-family home located at 59 Nick Trail, Mashpee, Massachusetts (the Site). The Site is not listed as a disposal site with the Massachusetts Department of Environmental Protection (MassDEP. A Site Locus is provided as **Figure 1** and a Site Plan is provided as **Figure 2**.

#### **Work Summary**

The project includes the construction of a single-family home. To complete portions of the footing excavations in the dry, dewatering is required to lower the groundwater table as the work is being performed. To do this, a series of wellpoints surrounding the perimeter of the work area will be utilized, and the water generated during dewatering (source water) will be pumped to a treatment system prior to discharge to the Popponesset Bay. To characterize groundwater from the proposed excavation area, LRT collected representative groundwater samples from one onsite test pit (Sample 1) on October 16, 2018. A sample of the receiving water (Popponesset Bay) was collected at the same time. The location of the source water and receiving water sampling locations are depicted on **Figure 2**.

#### **Discharge and Receiving Surface Water Information**

A summary of the laboratory analytical results are provided in **Tables 1 and 2**. The laboratory analytical summary tables and the laboratory analytical reports area included in **Appendix B**. The laboratory results for the source water sample summarize that all analyzed constituent concentrations are below the respective NPDES Effluent Limitations. Details of the water treatment system are provided below.

#### **Water Treatment System**

A water treatment system schematic is provided as **Figure 3**. Cutsheets of the system components are included in **Appendix C**.

Source water will be pumped to a treatment system with a design flow of up to 350 gallons per minute (gpm); the average effluent flow of the system is estimated to be 250 gpm, and the maximum flow will not exceed 350 gpm. Source water will enter one 10,000-gallon weir tank at head of the system. From the weir tank, the water will be pumped to a multi-bag filter skid (with two multi bag filters). Discharge from the bag filters will pass through a flow/totalizer meter prior to direct discharge into Popponesset Bay as depicted on **Figure 2**.

#### **Consultation with Federal Services**

LRT reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (MassGIS), the Massachusetts Division of Fisheries and Wildlife (MassWildlife; Natural Heritage and Endangered Species Program), and the U.S. National Parks Service Natural Historic Places (NPS). Based on this review, the Site and the point where the proposed discharge reaches the receiving surface water body are not located within an Area of Critical Environmental Concern (ACEC) and is not listed as a National Historic Place. Documentation is included in **Appendix D**.

#### **Coverage under NPDES DGP**

It is our opinion that the proposed discharge is eligible for coverage under the NPDES DGP. On behalf of John and Cheryl Fallon Trustees, LRT is requesting coverage under the NPDES DGP for the discharge of treated water to Popponesset Bay in support of construction dewatering activities that are to take place at 59 Nick Trail, Mashpee, MA.

The enclosed NOI form provides required information on the general site conditions, discharge, treatment system, receiving water, and consultation with federal services. For this project, LRT is considered the Operator and has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

Please feel free to contact us at 774-450-7177 if you have any questions or if you require additional information.

Sincerely,

Lockwood Remediation Technologies, LLC

# Kim Gravelle

Kim Gravelle, P.G. Project Manager

Encl: Figure 1 - Locus Plan

Figure 2 - Site Plan

Figure 3 - Water Treatment System Schematic

Appendix A - NOI Form Appendix B - Laboratory Data

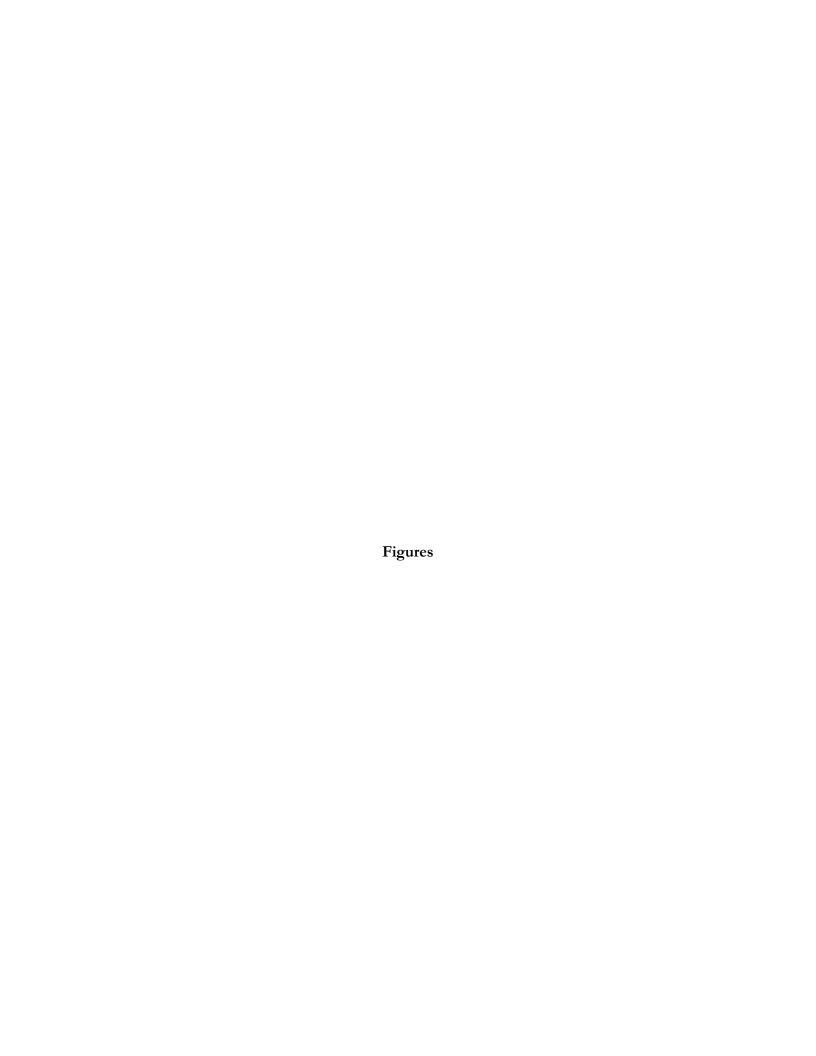
Appendix C - Water Treatment System Appendix D - Supplemental Information

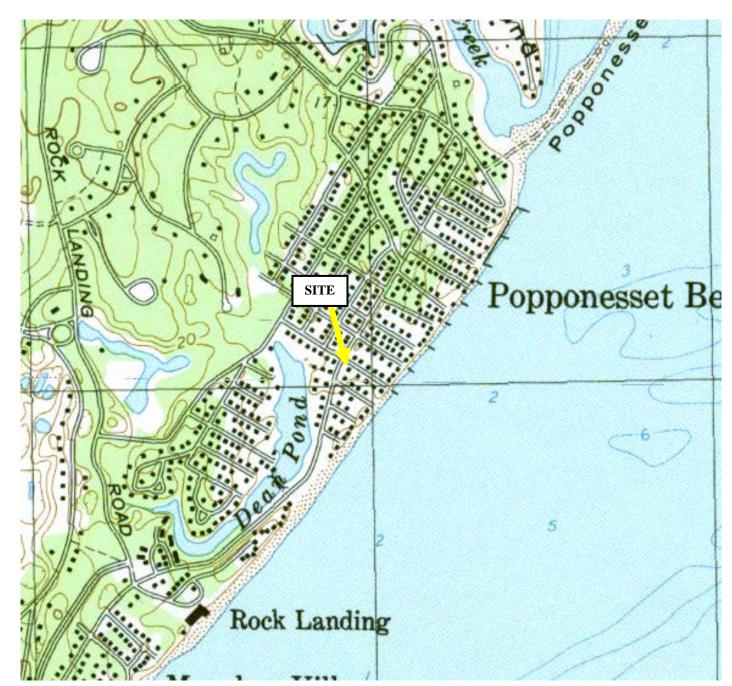
cc: John and Cheryl Fallon

Mr. Ron Silva - Silva & Silva, LLC

Paul Lockwood

Paul Lockwood President





Source: MassGIS,.Oliver Mapping Tool

## **Notes**

1. Figure is not to scale.





89 Crawford Street Leominster, Massachusetts 01453 Tel: 774.450.7177

Tel: 774.450.7177 Fax: 888.835.0617 www.lrt-llc.net **Figure 1 – Locus Plan** 59 Nick Trail Mashpee, Massachusetts



Source: Google Maps

**KEY**Receiving Water Sample Location ●

Discharge Location

Test Pit Location 

⊕

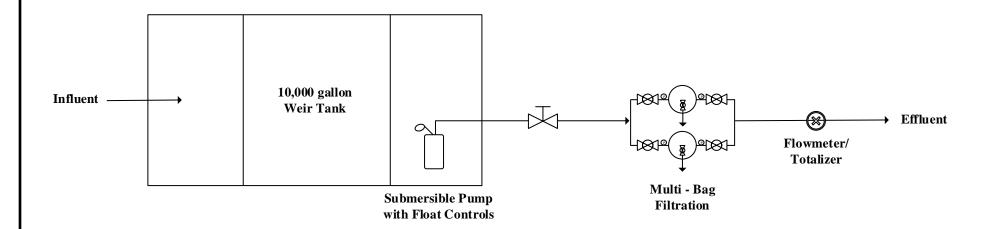




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**Figure 2 – Site Plan** 59 Nick Trail Mashpee, Massachusetts



**Notes:** 

1.) Figure is not to scale

2.) System rated for 400 GPM

3.) Sampling ports located on all treatment system components

Key:

Piping/Hose



Lockwood Remediation Technologies, LLC Leominster, Massachusetts 01453 Office: 774-450-7177

DESIGNED BY: LRT DRAWN BY: B. Watkins

CHECKED BY: KG DATE: **Water Treatment System Schematic** 

59 Nick Trail Mashpee, Massachusetts

Appendix A

**NOI** Form

### II. Suggested Notice of Intent (NOI) Format

1. General facility information. Please provide the following information about the facility. a) Name of facility: **Mailing Address for the Facility:** b) Location Address of the Facility (if different from mailing **Facility Location Type of Business:** address): longitude:\_\_\_\_\_ Facility SIC codes: latitude: c) Name of facility owner: \_\_\_\_\_ Owner's email: \_\_\_\_\_ Owner's Fax #: Owner's Tel #: Address of owner (if different from facility address) 17 Maple Street Braintree, MA 02184 Owner is (check one): 1. Federal \_\_\_\_\_ 2. State \_\_\_\_\_ 3. Private \_\_\_\_\_ 4. Other \_\_\_\_\_ (Describe)\_\_\_\_\_ Legal name of Operator, if not owner: Operator Contact Name: \_\_\_\_\_ Operator Tel Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_ Operator's email: **Operator Address (if different from owner)** d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes No If Yes, Permit Number: 2. Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Yes No 3. Is the facility covered by an individual NPDES permit? Yes\_\_\_\_\_ No\_\_\_\_ If Yes, Permit Number \_\_\_\_ 4. Is there a pending application on file with EPA for this discharge? Yes No If Yes, date of submittal:

	harge information. Please provide information about the discharge, (attaching additional sheets as needed)
a)	Name of receiving water into which discharge will occur:
Sta	Name of receiving water into which discharge will occur: te Water Quality Classification: Treshwater:  Marine Water:
b)	Describe the discharge activities for which the owner/applicant is seeking coverage:  1. Construction dewatering of groundwater intrusion and/or storm water accumulation.  2. Short-term or long-term dewatering of foundation sumps.  3. Other.
c)	Number of outfalls
For	each outfall:
d)	Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow GPD Average Monthly Flow GPD
e.)	What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH Min pH
f.)	Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. Groundwater - Laboratory analytical results are attached.
g.)	What treatment does the wastewater receive prior to discharge? Solids settling through sedimentation/weir tank and bag filters prior to discharge.
h.)	Is the discharge continuous? Yes No If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)
	If (P), number of days or months per year of the discharge;
	If (I), number of days/year there is a discharge
	Is the discharge temporary? Yes No approximate start date of dewatering approximate end date of dewatering
i.)	Latitude and longitude of each discharge within 100 feet (See <a href="http://www.epa.gov/tri/report/siting_tool">http://www.epa.gov/tri/report/siting_tool</a> ): Outfall 1: long lat; Outfall 2: long lat
j.)	If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations cfs (See Appendix VII for equations and additional information)

MASSACHUSEITS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):
k.) Does the discharge occur in an ACEC? Yes No If yes, provide the name of the ACEC:
3. Contaminant Information
a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatoxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).  Not Applicable
b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. None
<ul> <li>4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix IV. In addition, respon to the following questions.</li> <li>a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met?</li></ul>
5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:
a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes No; Question 2: No Yes
b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes or No If yes, attach the results of the consultation(s).
c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met?
d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes or No If yes, provide that name of the Indian Tribe associated with the property
6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit
7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:
Page 8 o

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: 59 Nick Trail, Mashpee, MAN

Operator signature:

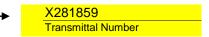
Print Full Name and Title: Paul Lockwood, President

Date: 11-1-18

Federal regulations require this application to be signed as follows:

- 1. For a corporation, by a principal executive officer of at least the level of vice president;
- 2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
- 3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

## Enter your transmittal number



Your unique Transmittal Number can be accessed online:

http://www.mass.gov/eea/agencies/massdep/service/approvals/transmittal-form-for-payment.html

# Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

1. Please type or	A.	Permit Information									
Transmittal Form must be completed for each permit		WM15 1. Permit Code: 4 to 7 character code from permit Construction Dewatering 3. Type of Project or Activity	instructions	General Discha 2. Name of Permit	arge Permit NPDES N Category	NOI					
	_										
	В.	Applicant Information – Firm of	or Individua	al .							
of Massachusetts		John and Cheryl Fallon Trustees									
		1. Name of Firm - Or, if party needing this appro			r:						
	•	Fallon	Chery								
Box 4062, Boston,		2. Last Name of Individual	3. First	Name of Individual		4. MI					
MA 02211.		17 Maple Street  5. Street Address									
3. Three copies of		Braintree	MA	02184	781-771-2627						
this form will be		6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #					
needed.		Cheryl Fallon	7. Glate	jackandcheryl3		10. LXt. #					
Copy 1 - the		11. Contact Person		12. e-mail address	e yanoo.com						
print. A separate Transmittal Form must be completed for each permit application.  2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: MassDEP, P.O. Box 4062, Boston, MA 02211.  3. Three copies of		The Contact Forces.									
	C	Facility, Site or Individual Req	uirina App	roval							
	•	•	g , .pp	. • • • • • • • • • • • • • • • • • • •							
fee payment.  Copy 3 should be retained for your		New Residential Construction									
		Name of Facility, Site Or Individual     Nick Trail									
		2. Street Address									
•		Mashpee	MA	02649							
4. Dath fan marina		3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #					
and exempt				от <u>—</u> р от то							
mail a copy of this		8. DEP Facility Number (if Known)	9. Federa	al I.D. Number (if Kno	own) 10. BWSC Track	ing # (if Known)					
transmittal form to:	D.	Application Prepared by (if dif	ferent from	Section B)*							
		Lockwood Remediation Technologies,	LLC	-							
		1. Name of Firm Or Individual									
		89 Crawford Street									
		2. Address									
* Nete:		Leominster	MA	01453	774-450-7177						
		3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #					
	,	Paul Lockwood									
		8. Contact Person		9. LSP Number (B\	WSC Permits only)						
	E.	Permit - Project Coordination									
	1.	Is this project subject to MEPA review? [If yes, enter the project's EOEA file number Environmental Notification Form is submitted.]	er - assigned wh								
				EOEA	File Number						
	F.	Amount Due									
DEP Use Only	Sp	ecial Provisions:									
Permit No:	1.	Fee Exempt (city, town or municipal housing	• / (		or less).						
i Gilliit IVU.	2.	There are no fee exemptions for BWSC permits  Hardship Request - payment extensions acc									
Rec'd Date:	3. 4.	Alternative Schedule Project (according to 3 Homeowner (according to 310 CMR 4.02).									
Reviewer:		1766 \$50	00.00		10/31/18						
			lar Amount		Date						

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Appendix B

Laboratory Data

### TABLE 1

### Precharacterization Data Summary Table 59 Nick Trail Mashpee, Massachusetts

	Sample Date	10/16/2018
	Discharge Standard	
Analysis		
Analysis	Sample ID	Sample 1
рН	6.5-8.3	7.6
Total Suspended Solids (TSS) (mg/l)	30	2.2
Hardness (mg/l)	Monitor Only	86
Chloride (mg/l)	Monitor Only	0.054
Total Metals		
Arsenic	104	<1.0
Cadmium	0.25	< 0.20
Chromium	74	<10
Copper	9.0	2.8
Iron	1,000	590
Mercury	0.74	< 0.10
Nickel	52	< 5.0
Lead	2.5	0.69
Antimony	206	1.5
Silver	3.2	< 0.20
Zinc	120	<20
Hexavalent Chromium	11	<4.0

#### Note:

Discharge Standards are NPDES RGP Standards All data reported as ug/L unless otherwise specified.

-- = Not Analyzed

# TABLE 2

# Receiving Water Data Summary 59 Nick Trail Mashpee, Massachusetts

Sample Date	10/16/2018
Sample ID	Receiving Water
Analysis	
рН	6.5
Salinity (ppt)	29.5
Ammonia as N (mg/l)	0.114
Total Metals	
Arsenic	55
Cadmium	<2.0
Chromium	<100
Copper	160
Iron	360
Mercury	< 0.10
Nickel	<50
Lead	<5.0
Antimony	<10
Silver	<2.0
Zinc	<200
Selenium	180
Hexavalent Chromium	<4.0

#### Note:

All data reported as ug/L unless otherwise specified.

-- = Not Analyzed



October 25, 2018

Kim Gravelle Lockwood Remediation Technologies, LLC 89 Crawford Street Leominster, MA 01453

Project Location: 59 Nick Trail, Mashpee, MA

Client Job Number: Project Number: 2-1676

Laboratory Work Order Number: 18J0868

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on October 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

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REPORT DATE: 10/25/2018



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Lockwood Remediation Technologies, LLC

89 Crawford Street Leominster, MA 01453

ATTN: Kim Gravelle

PURCHASE ORDER NUMBER:

2-1676

PROJECT NUMBER: 2-1676

#### ANALYTICAL SUMMARY

18J0868 WORK ORDER NUMBER:

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 59 Nick Trail, Mashpee, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Sample 1	18J0868-01	Ground Water		EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	NY11393/MA-MAI138/M A1110
				SM19-22 4500 NH3 C	MA M-MA-086/CT PH-0574/NY11148
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	MA M-MA-086/CT PH-0574/NY11148
				Tri Chrome Calc.	



#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 200.8

#### Qualifications:

В

Analyte is found in the associated laboratory blank as well as in the sample.

#### Analyte & Samples(s) Qualified:

18J0868-01[Sample 1], B215381-BLK1, B215381-BS1, B215381-BSD1

SM21-22 4500 CL G

#### Qualifications:

H-03

Sample received after recommended holding time was exceeded.

#### Analyte & Samples(s) Qualified:

Chlorine, Residual

18J0868-01[Sample 1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing. I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Project Manager

Lua Watslengton



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0868

Date Received: 10/17/2018

**Field Sample #: Sample 1** Sampled: 10/16/2018 12:30

Sample ID: 18J0868-01
Sample Matrix: Ground Water

#### Metals Analyses (Total)

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Antimony	1.5	1.0		$\mu g/L$	1	В	EPA 200.8	10/22/18	10/24/18 12:17	MJH
Arsenic	ND	1.0		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Cadmium	ND	0.20		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Chromium	ND	10		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Chromium, Trivalent	0.0			mg/L	1		Tri Chrome Calc.	10/22/18	10/24/18 12:30	MJH
Copper	2.8	1.0		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Iron	0.59	0.050		mg/L	1		EPA 200.7	10/19/18	10/22/18 14:24	QNW
Lead	0.69	0.50		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Mercury	ND	0.00010		mg/L	1		EPA 245.1	10/19/18	10/19/18 16:23	EJB
Nickel	ND	5.0		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Selenium	ND	5.0	2.1	$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Silver	ND	0.20		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Zinc	ND	20		$\mu g/L$	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Hardness	86			mg/L	1		EPA 200.7	10/19/18	10/24/18 16:26	QNW



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0868

Date Received: 10/17/2018

Field Sample #: Sample 1

Sampled: 10/16/2018 12:30

Sample ID: 18J0868-01
Sample Matrix: Ground Water

#### Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Chlorine, Residual	0.054	0.020		mg/L	1	H-03	SM21-22 4500 CL G	10/18/18	10/18/18 22:27	LED
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-22 3500 Cr B	10/17/18	10/17/18 22:32	LED
Total Suspended Solids	2.2	0.56		mg/L	1		SM21-22 2540D	10/19/18	10/19/18 13:05	LL



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0868

Date Received: 10/17/2018

Field Sample #: Sample 1

Sampled: 10/16/2018 12:30

Sample ID: 18J0868-01
Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

									Date	Date/Time	
	Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Chloride		22.7	1		mg/L	1		EPA 300.0		10/23/18 0:00	ESA



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0868

Date Received: 10/17/2018

**Field Sample #: Sample 1** Sampled: 10/16/2018 12:30

Sample ID: 18J0868-01
Sample Matrix: Ground Water

#### Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

									Date	Date/Time	
	Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Ammonia as N		0.062	0.075	0.024	mg/L	1		SM19-22 4500 NH3 C		10/22/18 21:47	AAL
Cyanide		ND	0.005	0.001	mg/L	1		SM21-22 4500 CN E		10/19/18 13:36	AAL



#### **Sample Extraction Data**

Prep Method: EPA 200.7-EPA 200.7

Prep Method: EPA 200.7-EPA 200.7					
Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0868-01 [Sample 1]	B215207	50.0	50.0	10/19/18	
18J0868-01 [Sample 1]	B215207	50.0		10/19/18	
Prep Method: EPA 200.8-EPA 200.8					
Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0868-01 [Sample 1]	B215381	50.0	50.0	10/22/18	
Prep Method: EPA 245.1-EPA 245.1					
Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0868-01 [Sample 1]	B215230	6.00	6.00	10/19/18	
SM21-22 2540D					
Lab Number [Field ID]	Batch	Initial [mL]		Date	
18J0868-01 [Sample 1]	B215193	900		10/19/18	

#### SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0868-01 [Sample 1]	B215082	50.0	50.0	10/17/18

#### SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0868-01 [Sample 1]	B215183	100	100	10/18/18

#### Prep Method: EPA 200.8-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0868-01 [Sample 1]	B215381	50.0	10/22/18



#### QUALITY CONTROL

### Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Lillit	Units	Level	Result	70KEC	Limits	KrD	Limit	Notes
Batch B215207 - EPA 200.7										
Blank (B215207-BLK1)				Prepared: 10	/19/18 Anal	yzed: 10/22/	18			
Iron	ND	0.050	mg/L							
LCS (B215207-BS1)				Prepared: 10	/19/18 Anal	yzed: 10/22/	18			
Iron	4.10	0.050	mg/L	4.00		102	85-115			
LCS Dup (B215207-BSD1)				Prepared: 10	/19/18 Anal	yzed: 10/22/	18			
Iron	4.11	0.050	mg/L	4.00		103	85-115	0.236	20	
Batch B215230 - EPA 245.1										
Blank (B215230-BLK1)				Prepared & A	Analyzed: 10	)/19/18				
Mercury	ND	0.00010	mg/L							
LCS (B215230-BS1)				Prepared & A	Analyzed: 10	0/19/18				
Mercury	0.00178	0.00010	mg/L	0.00200		89.0	85-115			
LCS Dup (B215230-BSD1)				Prepared & A	Analyzed: 10	1/19/18				
Mercury	0.00187	0.00010	mg/L	0.00200	maryzea. 10	93.6	85-115	5.10	20	
Batch B215381 - EPA 200.8										
Blank (B215381-BLK1)				Prepared: 10	/22/18 Anal	yzed: 10/24/	18			
Antimony	1.2	1.0	μg/L							В
Arsenic	ND	1.0	μg/L							
Cadmium	ND	0.20	μg/L							
Chromium	ND	10	μg/L							
Copper	ND	1.0	μg/L							
Lead	ND	0.50	μg/L							
Nickel	ND	5.0	μg/L							
Selenium Silver	ND	5.0	μg/L							
Zinc	ND ND	0.20 20	μg/L μg/L							
LCS (B215381-BS1)	112			Prepared: 10	)/22/18 Anal	vzed: 10/24/	18			
Antimony	523	10	μg/L	500		105	85-115			В
Arsenic	523	10	μg/L	500		105	85-115			
Cadmium	528	2.0	μg/L	500		106	85-115			
Chromium	524	100	μg/L	500		105	85-115			
Copper	1020	10	$\mu g/L$	1000		102	85-115			
Lead	508	5.0	$\mu g/L$	500		102	85-115			
Nickel	514	50	$\mu g/L$	500		103	85-115			
		50	$\mu g/L$	500		102	85-115			
Selenium	510	50	μ <sub>D</sub> L	500		102	00 110			
Selenium Silver	510 516	2.0	μg/L	500		103	85-115			



#### QUALITY CONTROL

### Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215381 - EPA 200.8										
LCS Dup (B215381-BSD1)				Prepared: 10	0/22/18 Anal	yzed: 10/24/	18			
Antimony	536	10	μg/L	500		107	85-115	2.47	20	В
Arsenic	533	10	$\mu g/L$	500		107	85-115	1.85	20	
Cadmium	545	2.0	$\mu g/L$	500		109	85-115	3.20	20	
Chromium	532	100	$\mu g/L$	500		106	85-115	1.51	20	
Copper	1040	10	$\mu g/L$	1000		104	85-115	2.00	20	
Lead	517	5.0	$\mu g/L$	500		103	85-115	1.75	20	
Nickel	525	50	$\mu g/L$	500		105	85-115	2.05	20	
Selenium	527	50	$\mu g/L$	500		105	85-115	3.27	20	
Silver	536	2.0	$\mu g/L$	500		107	85-115	3.70	20	
Zinc	1060	200	$\mu g/L$	1000		106	85-115	1.83	20	



#### QUALITY CONTROL

#### $Conventional\ Chemistry\ Parameters\ by\ EPA/APHA/SW-846\ Methods\ (Total)\ -\ Quality\ Control$

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215082 - SM21-22 3500 Cr B										
Blank (B215082-BLK1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B215082-BS1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		106	83.2-114			
LCS Dup (B215082-BSD1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		102	83.2-114	3.81	7.51	
Batch B215183 - SM21-22 4500 CL G										
Blank (B215183-BLK1)				Prepared &	Analyzed: 10	/18/18				
Chlorine, Residual	ND	0.020	mg/L							
LCS (B215183-BS1)				Prepared &	Analyzed: 10	/18/18				
Chlorine, Residual	1.3	0.020	mg/L	1.34		99.8	76-135			
LCS Dup (B215183-BSD1)				Prepared &	Analyzed: 10	/18/18				
Chlorine, Residual	1.4	0.020	mg/L	1.34		101	76-135	1.31	7.41	
Batch B215193 - SM21-22 2540D										
Blank (B215193-BLK1)				Prepared &	Analyzed: 10	/19/18				
Total Suspended Solids	ND	2.5	mg/L							
LCS (B215193-BS1)				Prepared &	Analyzed: 10	/19/18				
Total Suspended Solids	228	20	mg/L	200		114	64.3-117			



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
В	Analyte is found in the associated laboratory blank as well as in the sample.
H-03	Sample received after recommended holding time was exceeded.



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Hardness	CT,MA,NH,NY,RI,VA
EPA 200.8 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	CT,MA,NH,NY,RI,NC,ME,VA
Nickel	CT,MA,NH,NY,RI,NC,ME,VA
Selenium	CT,MA,NH,NY,RI,NC,ME,VA
Silver	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-22 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-22 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA



The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publile Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Requested Turnaround Time Phone: 413-525-2332 | \$50868

Fax: 413-525-6405

Page Page1 of 1 of

39 Spruce Street East Longmeadow, MA 01028

Solding Alexandra Sandala salidunas erintrosonidotrario <sup>2</sup> Preservation Codes: Sodium Hydroxide = Sodium Bisulfate DW = Drinking Water ' Matrix Codes: GW = Ground Water S = Summa Canister 3 Container Codes: A = Amber Glass WW = Waste Water 0 = Other (please 0 = Other (please 0 = Other (please S = Sulfuric Acid N = Nitric Acid Preservation Code = Tedlar Bag O Field Filtered S = Soil/Solid SL = Sludge O Field Filtered O Lab to Filter O Lab to Filter M = Methanol ST = Sterile Container Code = Sodium Thiosulfate P = Plastic # of Containers G = Glass V = Vial H= HC define) = Iced define) A = Air define) Please use the following codes to indicate possible sample concentration within the Conc NELAC and AIHA-LAP, LLC Accredited H - High; M - Medium; L - Low; C - Clean; U - Unknown MCP Analytical Certification Form Required RCP Analysis Certification Form Required Program Information ANALYSIS REQUESTED MA State DW Form Required Code column above: TRC - Residual SM4500 CI-G × Δ. Cyanide SM 4500-CN € × # GIS/Md Pb, Hg, Ni, Se, Ag, Zn by 200.8 z ۵. 5b, As, Cd, Cr III, Cr VI, Cu, Fe, 000 Chloride by 300.0 Ś ۵ × Ammonia by SM45008 × Q0+SZWS 551 Code M/L 2017 NPDES RGP Standards kgravelle@Irt-Ilc.net Matrix Detection kimit Requirements ₹ pe linbed levorddy ddys 5 DAY Enhanced Data Package Required: 10-Day 3-Day 4-Day Grab Data Delivery × Composite PDF では Ending Date/Time Email To: ax To #: "ormat: Other: -Day 7-Day Other -Day Beginning Date/Time 0 118 Other ż Lockwood Remediation Technologies, LLC 89 Crawford Street, Leominster, MA 540 54 Nick Trail, Mashpee, MA Email: info@contestlabs.com Totalizer: Dh.CI ő Client Sample ID / Description 774-450-7177 Kim Gravelle 54 Nick Trail 1 81/11/0] 80 m/01 81/61 01 2-1676 10/17/18 Date/Time: Date/Time: Date/Time: Date/Time Sample 1 Temp: Temp: Relinquished by; (signature) (signature) (signature) 不不多 ed by: (signatu IN PH: 4 C nvoice Recipient: Project Location: Company Name: Project Manager; Project Number: Work Order# Project Name: Con-Test ながれた Con-Test Bid: sampled By: omments: Address: Phone: Page

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QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME

CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE

Date/Time:

ished by: (signature)

16 of 17

Date/Time:

ed by: (signature)

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples\_\_\_\_\_



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Received	00٪ کان By _	<u>up</u>		Date	10/17/18		Time	17:40	
How were the	samples	In Cooler	1	No Cooler	ſ	On Ice	T	No Ice	
received	ام م	Direct from Samp				Ambient		Melted Ice	
		Dirotti on alling	By Gun #	577	•	Actual Tem	in - 3.7.	<del></del>	
Were sample		<u> -</u>			-				
Temperature'	-	T	-			Actual Tem		* • •	
	-		N/H		ere Samples			N/A_	
		iquished?	<u> </u>	-	es Chain Agr	ee With Sar	mples?		
		eaking/loose caps	on any sam			t metalia			
			w		,		olding time?		
Did COC incl		Client	<u></u>	Analysis			ler Name	<u>+</u>	
pertinent Infor				ID's	<u>T</u>	Collection	Dates/Time	s	
•		d out and legible?		-	440 m 3400	- 000 = AO			
Are there Lab t		T.	<u> </u>			s notified?		<del></del>	
Are there Rush			<u> </u>	-		s notified?	ž.		
Are there Shor			T	•	Who was	; notified?	Luke		
ls there enougl			<u> </u>	-	**********	_			
		ere applicable?	NA	-	MS/MSD?			3	
Proper Media/0				**		samples rec	quired?	<u></u>	
Were trip blank			F	м А.:ы	On COC?			+ >17	
Do all samples	have the	proper pH?		Acid	112	_	Base	<u> </u>	
Vials	#	Containers:	#			#			#
Unp-		1 Liter Amb.			r Plastic	<u> </u>		oz Amb.	
HCL-		500 mL Amb.			L Plastic	<u> </u>		Amb/Clear	
Meoh-		250 mL Amb.			L Plastic	2		Amb/Clear	
Bisulfate-		Col./Bacteria			hpoint	<del> </del>		hmb/Clear	
DI-		Other Plastic	<u> </u>		r Glass			ncore	
Thiosulfate-		SOC Kit			tic Bag	<del> </del>	Frozen:		
Sulfuric-		Perchlorate			olock				
				Unused	Media				
Vials	#	Containers:	#			#	10		#
Unp-		1 Liter Amb.			r Plastic	<del> </del>		oz Amb.	
HCL-		500 mL Amb.			L Plastic	<b></b>		Amb/Clear	l
Meoh-		250 mL Amb.	ļ		L Plastic	<b></b>		Amb/Clear	
Bisulfate-		Col./Bacteria	<u> </u>		hpoint	<del></del>		Amb/Clear	<del></del>
DI-	***************************************	Other Plastic			r Glass		Frozen:	ncore	i
Thiosulfate-		SOC Kit	<del> </del>		tic Bag	<del> </del>	Trozen.		
Sulfuric-	<u></u>	Perchlorate		<u> </u>	olock				M
Comments:									



October 25, 2018

Kim Gravelle Lockwood Remediation Technologies, LLC 89 Crawford Street Leominster, MA 01453

Project Location: 59 Nick Trail, Mashpee, MA

Client Job Number: Project Number: 2-1676

Laboratory Work Order Number: 18J0879

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on October 17, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

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Lockwood Remediation Technologies, LLC

89 Crawford Street

PURCHASE ORDER NUMBER: 2-1676

REPORT DATE: 10/25/2018

Leominster, MA 01453 ATTN: Kim Gravelle

PROJECT NUMBER: 2-1676

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0879

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 59 Nick Trail, Mashpee, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Receiving Water	18J0879-01	Surface Water		EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				SM19-22 4500 NH3 C	MA M-MA-086/CT PH-0574/NY11148
				SM21-22 3500 Cr B	
				SM2520B	MA M-RI010/CT PH-0740/NY11673/+ Additional
				Tri Chrome Calc.	



#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 200.8

#### Qualifications:

В

Analyte is found in the associated laboratory blank as well as in the sample.

#### Analyte & Samples(s) Qualified:

Antimony

B215381-BLK1, B215381-BS1, B215381-BSD1, B215381-DUP1, B215381-MS1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

#### Analyte & Samples(s) Qualified:

Antimony

18J0879-01[Receiving Water]

DL-15

Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.

#### Analyte & Samples(s) Qualified:

Antimony

18J0879-01[Receiving Water]

Arsenic

18J0879-01[Receiving Water]

Cadmium

18J0879-01[Receiving Water]

Chromium

18J0879-01[Receiving Water]

Copper

18J0879-01[Receiving Water]

Lead

18J0879-01[Receiving Water]

Nickel

18J0879-01[Receiving Water]

Selenium

18J0879-01[Receiving Water]

Silver

18J0879-01[Receiving Water]

Zinc

18J0879-01[Receiving Water]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0879

Date Received: 10/17/2018

Field Sample #: Receiving Water Sampled: 10/16/2018 12:00

Sample ID: 18J0879-01
Sample Matrix: Surface Water

Metals	Ana	lyses (	(Total)	

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Allalyte	Results	KL	DL	Units	Dilution	riag/Quai	Methou	Trepareu	Allalyzeu	Analyst
Antimony	ND	10		$\mu g/L$	10	B-05, DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Arsenic	55	10		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Cadmium	ND	2.0		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Chromium	ND	100		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Chromium, Trivalent	0.0			mg/L	1		Tri Chrome Calc.	10/22/18	10/24/18 12:30	MJH
Copper	160	10		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Iron	0.36	0.050		mg/L	1		EPA 200.7	10/22/18	10/23/18 14:16	QNW
Lead	ND	5.0		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Mercury	ND	0.00010		mg/L	1		EPA 245.1	10/19/18	10/19/18 16:28	EJB
Nickel	ND	50		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Selenium	180	50	21	$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Silver	ND	2.0		$\mu g/L$	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Zinc	ND	200		μg/L	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0879

Date Received: 10/17/2018

Field Sample #: Receiving Water Sampled: 10/16/2018 12:00

Sample ID: 18J0879-01
Sample Matrix: Surface Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-22 3500 Cr B	10/17/18	10/17/18 22:32	LED



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0879

Date Received: 10/17/2018

Field Sample #: Receiving Water Sampled: 10/16/2018 12:00

Sample ID: 18J0879-01
Sample Matrix: Surface Water

#### Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

									Date	Date/Time	
	Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Salinity		29.5	1		ppt	1		SM2520B		10/24/18 0:00	NET



Project Location: 59 Nick Trail, Mashpee, MA Sample Description: Work Order: 18J0879

Date Received: 10/17/2018

Field Sample #: Receiving Water Sampled: 10/16/2018 12:00

Sample ID: 18J0879-01
Sample Matrix: Surface Water

#### Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Ammonia as N	0.114	0.075	0.024	mg/L	1		SM19-22 4500 NH3 C		10/22/18 21:44	AAL



#### **Sample Extraction Data**

Prep Method: EPA 200.7-EPA 200.7

Frep Method: EFA 200./-EFA 200./					
Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0879-01 [Receiving Water]	B215380	50.0	50.0	10/22/18	
Prep Method: EPA 200.8-EPA 200.8					
Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0879-01 [Receiving Water]	B215381	50.0	50.0	10/22/18	
Prep Method: EPA 245.1-EPA 245.1  Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0879-01 [Receiving Water]	B215230	6.00	6.00	10/19/18	
SM21-22 3500 Cr B Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
18J0879-01 [Receiving Water]	B215082	50.0	50.0	10/17/18	
				·· ·· · · ·	

#### Prep Method: EPA 200.8-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0879-01 [Receiving Water]	B215381	50.0	10/22/18



#### QUALITY CONTROL

#### Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215230 - EPA 245.1						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Blank (B215230-BLK1)				Prepared & A	Analyzed: 10	)/19/18				
Mercury	ND	0.00010	mg/L							
LCS (B215230-BS1)				Prepared & A	Analyzed: 10	)/19/18				
Mercury	0.00178	0.00010	mg/L	0.00200	mary zou. To	89.0	85-115			
L CC Day (D215220 BCD1)				Dramarad &	Amalyzadi 10	V/10/19				
LCS Dup (B215230-BSD1) Mercury	0.00187	0.00010	mg/L	0.00200	Anaryzeu. 10	93.6	85-115	5.10	20	
	0.00187	0.00010	g, 2	0.00200		75.0	03-113	5.10	20	
Batch B215380 - EPA 200.7										
Blank (B215380-BLK1)				Prepared: 10	/22/18 Anal	yzed: 10/23/	18			
Iron	ND	0.050	mg/L							
LCS (B215380-BS1)				Prepared: 10	/22/18 Anal	yzed: 10/23/	18			
Iron	4.17	0.050	mg/L	4.00		104	85-115			
LCS Dup (B215380-BSD1)				Prepared: 10	/22/18 Anal	vzed: 10/23/	18			
Iron	4.22	0.050	mg/L	4.00	/22/16 Allai	106	85-115	1.18	20	
Batch B215381 - EPA 200.8										
Blank (B215381-BLK1)				Prepared: 10	/22/18 Anal	yzed: 10/24/	18			
Antimony	1.2	1.0	μg/L							В
Arsenic	ND	1.0	μg/L							
Cadmium	ND	0.20	μg/L							
Chromium	ND	10	μg/L							
Copper Lead	ND	1.0	μg/L							
Lead Nickel	ND	0.50 5.0	μg/L							
Selenium	ND	5.0	μg/L μg/L							
Silver	ND ND	0.20	μg/L μg/L							
Zinc	ND ND	20	μg/L μg/L							
LCS (B215381-BS1)				Prepared: 10	/22/18 Anal	yzed: 10/24/	18			
Antimony	523	10	μg/L	500		105	85-115			В
Arsenic	523	10	$\mu g/L$	500		105	85-115			
Cadmium	528	2.0	μg/L	500		106	85-115			
Chromium	524	100	$\mu g\!/\!L$	500		105	85-115			
Copper	1020	10	$\mu g\!/\!L$	1000		102	85-115			
Lead	508	5.0	$\mu g\!/\!L$	500		102	85-115			
Nickel	514	50	$\mu \text{g/L}$	500		103	85-115			
Colonium	510	50	μg/L	500		102	85-115			
Selemum	210									
Selenium Silver	516	2.0	$\mu g/L$	500		103	85-115			



#### QUALITY CONTROL

#### Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215381 - EPA 200.8										
LCS Dup (B215381-BSD1)				Prepared: 10	0/22/18 Analy	zed: 10/24	/18			
Antimony	536	10	μg/L	500		107	85-115	2.47	20	В
Arsenic	533	10	$\mu g/L$	500		107	85-115	1.85	20	
Cadmium	545	2.0	$\mu g/L$	500		109	85-115	3.20	20	
Chromium	532	100	$\mu g/L$	500		106	85-115	1.51	20	
Copper	1040	10	$\mu g/L$	1000		104	85-115	2.00	20	
Lead	517	5.0	$\mu g/L$	500		103	85-115	1.75	20	
Nickel	525	50	$\mu g/L$	500		105	85-115	2.05	20	
Selenium	527	50	$\mu g/L$	500		105	85-115	3.27	20	
Silver	536	2.0	$\mu g/L$	500		107	85-115	3.70	20	
Zinc	1060	200	$\mu g/L$	1000		106	85-115	1.83	20	
Duplicate (B215381-DUP1)	Sou	rce: 18J0879-0	)1	Prepared: 10	0/22/18 Analy	zed: 10/24	/18			
Antimony	ND	10	$\mu g/L$		ND			NC	20	В
Arsenic	53.8	10	$\mu g/L$		55.1			2.26	20	
Cadmium	ND	2.0	$\mu g/L$		ND			NC	20	
Chromium	ND	100	$\mu \text{g/L}$		ND			NC	20	
Copper	139	10	$\mu \text{g/L}$		160			14.5	20	
Lead	ND	5.0	$\mu \text{g/L}$		ND			NC	20	
Nickel	ND	50	$\mu g/L$		ND			NC	20	
Selenium	178	50	$\mu g/L$		180			1.02	20	
Silver	ND	2.0	$\mu g/L$		ND			NC	20	
Zinc	ND	200	μg/L		ND			NC	20	
Matrix Spike (B215381-MS1)	Sou	rce: 18J0879-0	)1	Prepared: 10	)/22/18 Analy	zed: 10/24	/18			
Antimony	509	10	$\mu g \! / \! L$	500	1.67	101	70-130			В
Arsenic	541	10	$\mu \text{g/L}$	500	55.1	97.2	70-130			
Cadmium	435	2.0	$\mu \text{g/L}$	500	ND	87.1	70-130			
Chromium	565	100	$\mu \text{g/L}$	500	ND	113	70-130			
Copper	1070	10	$\mu \text{g}/L$	1000	160	90.8	70-130			
Lead	547	5.0	$\mu \text{g}/L$	500	ND	109	70-130			
Nickel	515	50	$\mu g/L$	500	14.6	100	70-130			
Selenium	599	50	$\mu \text{g/L}$	500	180	83.8	70-130			
Silver	437	2.0	$\mu \text{g/L}$	500	ND	87.5	70-130			
Zinc	866	200	μg/L	1000	ND	86.6	70-130			



#### QUALITY CONTROL

#### $Conventional\ Chemistry\ Parameters\ by\ EPA/APHA/SW-846\ Methods\ (Total)\ -\ Quality\ Control$

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215082 - SM21-22 3500 Cr B										
Blank (B215082-BLK1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B215082-BS1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		106	83.2-114			
LCS Dup (B215082-BSD1)				Prepared &	Analyzed: 10	/17/18				
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		102	83.2-114	3.81	7.51	



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
В	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
DL-15	Sample required a dilution due to low internal standard recovery of the lesser diluted digestion, reporting limit is elevated.



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Iron	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	CT,MA,NH,NY,RI,NC,ME,VA
Nickel	CT,MA,NH,NY,RI,NC,ME,VA
Selenium	CT,MA,NH,NY,RI,NC,ME,VA
Silver	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 3500 Cr B in Water	

Hexavalent Chromium NY,CT,NH,RI,ME,VA,NC

 $The \ CON-TEST \ Environmental \ Laboratory \ operates \ under \ the \ following \ certifications \ and \ accreditations:$ 

Code	Description	Number	Expires	
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020	
MA	Massachusetts DEP	M-MA100	06/30/2019	
CT	Connecticut Department of Publile Health	PH-0567	09/30/2019	
NY	New York State Department of Health	10899 NELAP	04/1/2019	
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019	
RI	Rhode Island Department of Health	LAO00112	12/30/2018	
NC	North Carolina Div. of Water Quality	652	12/31/2018	
NJ	New Jersey DEP	MA007 NELAP	06/30/2019	
FL	Florida Department of Health	E871027 NELAP	06/30/2019	
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019	
ME	State of Maine	2011028	06/9/2019	
VA	Commonwealth of Virginia	460217	12/14/2018	
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019	
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019	
NC-DW	North Carolina Department of Health	25703	07/31/2019	

CHAIN OF CUSTODY RECORD CTO & Contestlabs.com

Phone: 413-525-2332

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East Longmeadow, MA 01028

39 Spruce Street

Dissolved Metals Samples <sup>2</sup> Preservation Code O Field Filtered O Lab to Filter 3 Container Code # of Containers ANALYSIS REQUESTED م Ś Z ۵ ۵ Requested Turnaround Time Rush-Approval Required 5 DAY 10-Day 4-Day SXCEL 3-Day Data Defivery PDF Format: Other: 7-Day Other: 2-Day 1-Day Lockwood Remediation Technologies, LLC 89 Crawford Street, Leominster, MA Email: info@contestlabs.com 54 Nick Trail, Mashpee, MA 774-450-7177 54 Nick Trail Kim Gravelle 2-1676 Fax: 413-525-6405 COR-KESK ANALYTICAL LABORATORY

<sup>2</sup> Preservation Codes: I = Iced H = HCL X = Sodium Hydroxide T = Sodium DW = Drinking Water B = Sodium Bisulfate define) 0 = Surface 3 Container Codes: GW = Ground Water WW = Waste Water 0 = Other (please 0 = Other (please S = Sulfuric Acid Matrix Codes: N = Nitric Acid O Field Filtered S = Soil/Solid M = Methanol O Lab to Filter Thiosulfate SL = Sludge define) A = Air Water Please use the following codes to indicate possible sample concentration within the H. High; M. Medium; L. Low; C. Clean; U. Unknown Conc Code column above: × Ammonia by SM4500B aΣ bns gA ,92 Cd, Cr III, Cr VI, Cu, Fe, Pb, Hg, Vi, Total Recoverable Metals: 5b, As, × Salinity S G M/L kgravelle@irt-lic.net \*Matrix Code 0 Enhanced Data Package Required: Grab Composite 12:00pm Ending Date/Time Email To: Fax To #: 10/16/18 Beginning Date/Time Client Sample ID / Description Receiving Water Invoice Recipient: Company Name: Project Manager: Project Location Work Order# Project Number: PH: Project Name: Con-Test Con-Test Bid: Comments: Sampled By: Address: Phone:

S = Summa Canister o = Other (please A = Amber Glass
G = Glass
P = Plastic T = Tedlar Bag ST = Sterile V = Vial define)

NELAC and AlMA-LAP, LLC Accredited McP Analytical Certification Form Required
 RcP Analysis Certification Form Required QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE rogram Information MA State DW Form Required PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT # QISMd 0 CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED. 2017 NPDES RGP Standards Detection Limit Requirements Other 10/1-1/08 2 30 10 17/8 5-40 OK:L1 8/12/10 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time; 21年 ished by: (signature) Relinguished by: (signature) ed by: (signature) Received by: (signature)

16 of 17

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples\_\_\_\_\_



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Received By	np _ np		Date	10/17/18	7	Time	17:40	
How were the sam	ples In Cooler	T	No Cooler			T	No Ice	
received?	Direct from Samp	 rlina	• •		- Ambient		Melted Ice	
		By Gun #	577		Actual Tem	7.7		
Were samples wit								
Temperature? 2-6		•			Actual Tem			
	dy Seal Intact?	MA			es Tampered		NA	
	Relinquished?	<u>T</u>	•	_	gree With Sa	mples?	<u> </u>	
	ken/leaking/loose caps	on any sam		E	<del></del>			
ls COC in ink/ Legi	ble?	<del>-</del>	Were sar	nples rece	ived within h	-	<u> </u>	
Did COC include	all Client	_T	Analysis	1	<u> </u>	er Name	<u></u>	
pertinent Informati	on? Project		, ID's	<u>T</u>	Collection	Dates/Time	s <u> </u>	
Are Sample labels	filled out and legible?	Τ						
Are there Lab to Fil	ters?	F	•	Who wa	as notified?			
Are there Rushes?		<u> </u>	•	Who wa	as notified?			
Are there Short Hol	ids?	F	•	Who wa	as notified?			
s there enough Vo	lume?	+	•			**************************************		
•	e where applicable?	MH	•	MS/MSD?	? F			
Proper Media/Conta	, .	+	•		samples red	uired?	F	
Were trip blanks re		F	•	On COC?		•	**************************************	
Do all samples hav			Acid	TLZ		- Base		
Vials #	Containers:	#			#			#
Jnp-	1 Liter Amb.		1 Liter	Plastic		16 (	oz Amb.	
HCL-	500 mL Amb.		500 mL	. Plastic	3	8oz A	mb/Clear	
Meoh-	250 mL Amb.		250 mL	. Plastic		4oz A	mb/Clear	
Bisulfate-	Col./Bacteria		Flash	npoint		2oz A	mb/Clear	
			Other	Glass		E	ncore	
	Other Plastic							
Thiosulfate-	SOC Kit		Plasti	c Bag		Frozen:		
Thiosulfate-			Plasti	c Bag lock		Frozen:		
Thiosulfate- Sulfuric-	SOC Kit Perchlorate		Plasti	lock		Frozen:		
Thiosulfate- Sulfuric- Vials #	SOC Kit Perchlorate  Containers:	#	Plasti Zipl Unused	lock Media	#			#
Thiosulfate- Sulfuric-  Vials # Unp-	SOC Kit Perchlorate	#	Plasti Zipl <b>Unused</b> I 1 Liter	Media Plastic	#	16 0	oz Amb.	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb.	#	Plasti Zipl Unused I 1 Liter 500 mL	Media Plastic Plastic	#	16 c	mb/Clear	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb.	#	Plasti Zipl Unused I 1 Liter 500 mL	Media Plastic	#	16 c 8oz A 4oz A	mb/Clear mb/Clear	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh- Bisulfate-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash	Plastic Plastic Plastic Plastic	#	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear mb/Clear	*
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh- Bisulfate- DI-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash Other	Media Plastic Plastic Plastic Plastic Plastic Glass	#	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash Other Plasti	Media Plastic Plastic Plastic Plastic Glass C Bag	#	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear mb/Clear	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash Other Plasti	Media Plastic Plastic Plastic Plastic Plastic Glass	#	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear mb/Clear	#
DI- Thiosulfate- Sulfuric-  Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash Other Plasti	Media Plastic Plastic Plastic Plastic Glass C Bag	#	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear mb/Clear	#
Thiosulfate- Sulfuric-  Vials # Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	SOC Kit Perchlorate  Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	Plasti Zipl Unused I  1 Liter 500 mL 250 mL Flash Other Plasti	Media Plastic Plastic Plastic Plastic Glass C Bag	4	16 c 8oz A 4oz A 2oz A	mb/Clear mb/Clear mb/Clear	***************************************

Appendix C

Water Treatment System

Appendix D

Supplemental Information

# MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

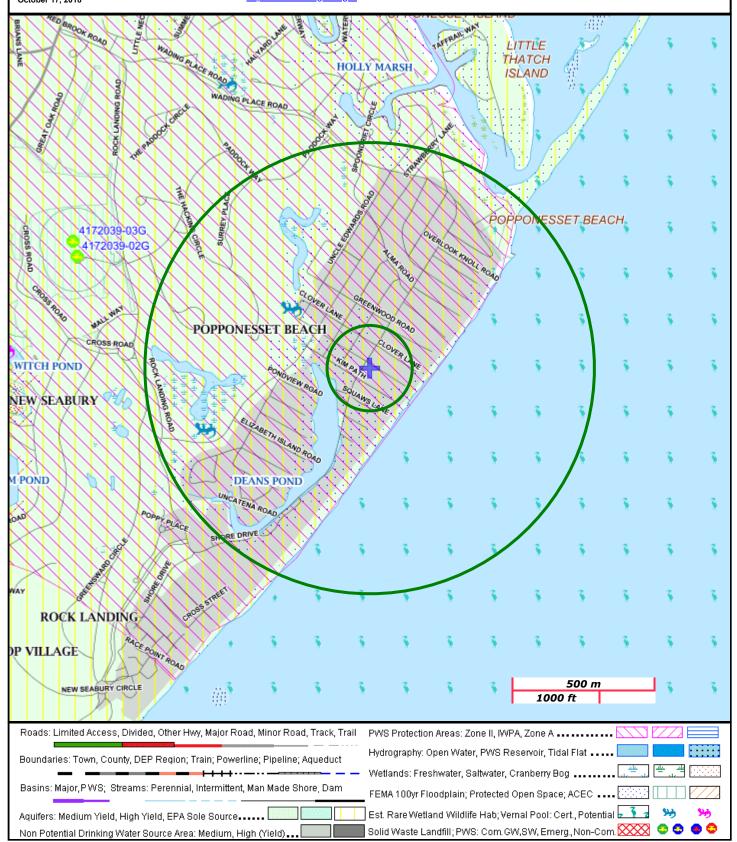
#### Site Information:

59 NICK TRAIL MASHPEE, MA

NAD83 UTM Meters: 4603331mN , 377977mE (Zone: 19) October 17, 2018

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found. be found at: http://www.mass.gov/mgis/







#### <u>Documentation of the Results of the ESA Eligibility Determination:</u>

Using information in Appendix IV of the NPDES DGP, the project located at 59 Nick Road, Mashpee, MA is eligible for coverage under this general permit under FWS Criterion C. This project is located in Barnstable County. No designated critical habitats were listed in the project area.

An Endangered Species Consultation was conducted on the U.S. Fish & Wildlife Service New England Field Office ECOS IPaC webpage for the Site:

- The Northern long-eared bat was listed as "Threatened" wherever it is found;
- The American Chaffseed (*Schwalbea Americana*) was listed as "Endangered" where ever found and may occur within the boundary of the project area;

Temporary dewatering activities at the site are not expected to impact the Northern Long-eared Bat or the American Chaffseed.

Northern long-eared bats spend winter hibernating in caves and mines. They use areas in various sized caves or mines with constant temperatures, high humidity, and no air currents. During the summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities or in crevices of both live trees and snags (dead trees). There are no caves and mines located at the site. There are trees in the immediate vicinity of the site; however, tree removal is not part of the scope of work related to this Notice of Intent. Therefore, temporary dewatering activities will have "no impact" to the Northern Long-eared Bat.

America Chaffseed is a perennial herb that predominately grows in coastal plains along the Atlantic and Gulf Coast areas, with historic locations ranging from Massachusetts to Florida to east Texas. Characteristically the species occurs primarily in the Southeast United States in sandy (sandy peat, loamy sand, peat loam), acidic, seasonally moist soils, often subject to fires in the growing season. Most often it is found on moist to seasonally wet sites such as pitch pine lowlands, moist pine flatwoods and savannas, and areas between peaty wetlands and dry sandy soils. There are vegetative areas surrounding the project site; however, vegetation removal is not part of the scope of work related to this Notice of Intent. There are no critical habitats within the project area. Temporary dewatering activities are "not likely to adversely effect" on the America Chaffseed.



## United States Department of the Interior

#### FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

http://www.fws.gov/newengland



In Reply Refer To: October 17, 2018

Consultation Code: 05E1NE00-2019-SLI-0117

Event Code: 05E1NE00-2019-E-00264

Project Name: 59 Nick Trail

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

#### Attachment(s):

Official Species List

## **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

## **Project Summary**

Consultation Code: 05E1NE00-2019-SLI-0117

Event Code: 05E1NE00-2019-E-00264

Project Name: 59 Nick Trail

Project Type: \*\* OTHER \*\*

Project Description: Construction Dewatering

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/place/41.572354727077695N70.46364058656759W">https://www.google.com/maps/place/41.572354727077695N70.46364058656759W</a>



Counties: Barnstable, MA

## **Endangered Species Act Species**

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **Mammals**

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis

Threatened

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>

### **Flowering Plants**

NAME STATUS

American Chaffseed Schwalbea americana

Endangered

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1286">https://ecos.fws.gov/ecp/species/1286</a>

#### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



#### <u>Documentation of the National Historic Preservation Act Eligibility Determination:</u>

As part of this permit, a determination was made as to whether there were any historic properties or places listed on the national register in the path of the discharge or in the vicinity of the construction of treatment systems or BMPs related to the discharge. A search on the Massachusetts Cultural Resource Information System Database and the National Register of Historic Places did not list any potential historic properties on or near the project site in the databases. Therefore, the proposed discharge will not have the potential to cause effects on historical properties.

# Massachusetts Cultural Resource Information System MACRIS

#### **MACRIS Search Results**

Search Criteria: Town(s): Mashpee; Street No: 59; Street Name: Nick Trail; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No. Property Name Street Town Year

Thursday, October 18, 2018 Page 1 of 1

# National Register of Historic Places

National Park Service U.S. Department of the Interior

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. ...

= Site Boundary



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Contact Us (https://www.nps.gov/contacts.htm)

From: <u>Kim Gravelle</u>
To: <u>Vuto, Michelle</u>

**Subject:** RE: NOI - NPDES Dewatering General Permit, 59 Nick Trail, Mashpee, MA

**Date:** Monday, November 05, 2018 4:23:34 PM

Attachments: ATT00001.txt

59 Nick Trail NOI Form - signed.pdf

#### Hi Michelle,

Based upon a discussion with Susie VonOttingen of the U.S. Fish & Wildlife Service (USFWS), no species habitat is present at the project location due to the property being a former residential home. Since there is no species habitat present, further consultation is not required with the USFWS. The proposed temporary dewatering activities at the site will not impact the American Chaffseed or the Northern Log-Eared Bat.

The corrected NOI Form is attached. Please let me know if you need any additional information.

Thank you,

Kim Gravelle, P.G. *Project Manager* 

#### Lockwood Remediation Technologies, LLC

89 Crawford Street Leominster, MA 01453 O: 774-450-7177 x109 F: 888-835-0617

C: 774.479.1048 kgravelle@lrt-llc.net



From: Vuto, Michelle < Vuto. Michelle@epa.gov > On Behalf Of General Permit, DeWatering

**Sent:** Monday, November 05, 2018 11:12 AM **To:** Kim Gravelle <kgravelle@lrt-llc.net>

Subject: RE: NOI - NPDES Dewatering General Permit, 59 Nick Trail, Mashpee, MA

Hi Kim,

The ESA determination for the 59 Nick Trail project should be criterion B since the American Chaffseed came up on the IPaC report. Formal or informal consultation with USFWS should be conducted for the species (see <a href="Appendix IV">Appendix IV</a> of the DGP for more information and USFWS contact information). Please submit a copy of the consultation results once you have them in order to complete the DGP NOI.

Please let me know if you have any questions.

Thanks,

#### Michelle

Michelle Vuto Stormwater & Construction Permits U.S. EPA Region 1 5 Post Office Square—0EP06-4 Boston, MA 02109-3912 617-918-1222

From: Kim Gravelle < kgravelle@lrt-llc.net > Sent: Thursday, November 01, 2018 2:26 PM

**To:** GeneralPermit, DeWatering <a href="mailto:GeneralPermit.Dewatering@epa.gov">GeneralPermit.Dewatering@epa.gov</a>; <a href="mailto:jennifer.wood@state.ma.us">jennifer.wood@state.ma.us</a>

**Cc:** Paul Lockwood <plockwood@Irt-llc.net>

Subject: NOI - NPDES Dewatering General Permit, 59 Nick Trail, Mashpee, MA

Good Afternoon,

Attached please find the Notice of Intent for the NPDES Dewatering General Permit associated with the proposed construction dewatering project located at 59 Nick Trail, Mashpee, MA.

Since the proposed discharge location will be to Class SA waters, the WM15 Permit Form is included with this submittal and the \$500 payment has been sent to the MassDEP.

Please review and contact us with any questions.

Thank you,

Kim Gravelle, P.G. *Project Manager* 

Lockwood Remediation Technologies, LLC

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