89 Crawford Street
Leominster, Massachusetts 01453
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

November 1, 2018

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

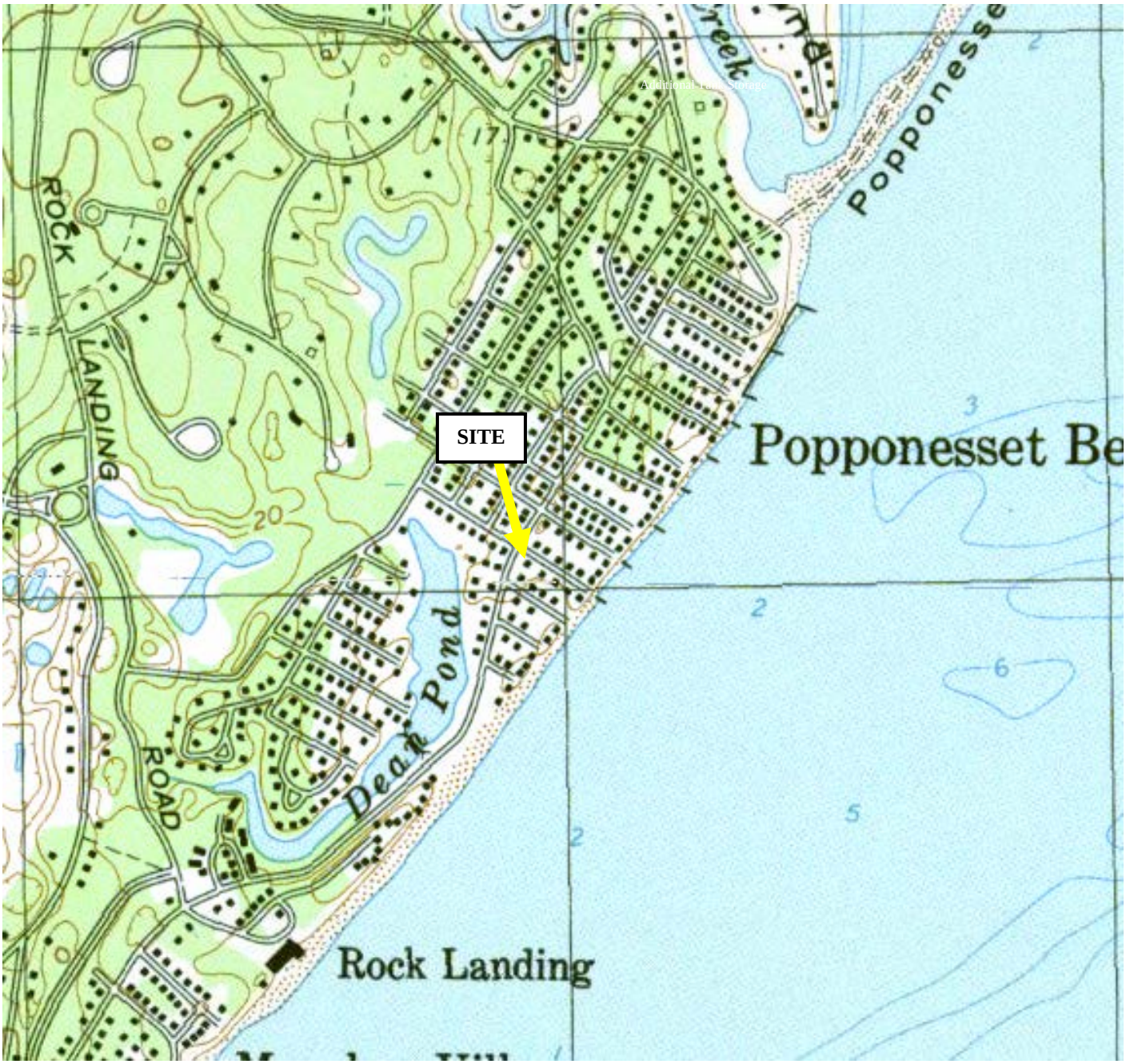
Paul Lockwood

Paul Lockwood
President

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

Figures



Source: MassGIS,.Oliver Mapping Tool

Notes

1. Figure is not to scale.

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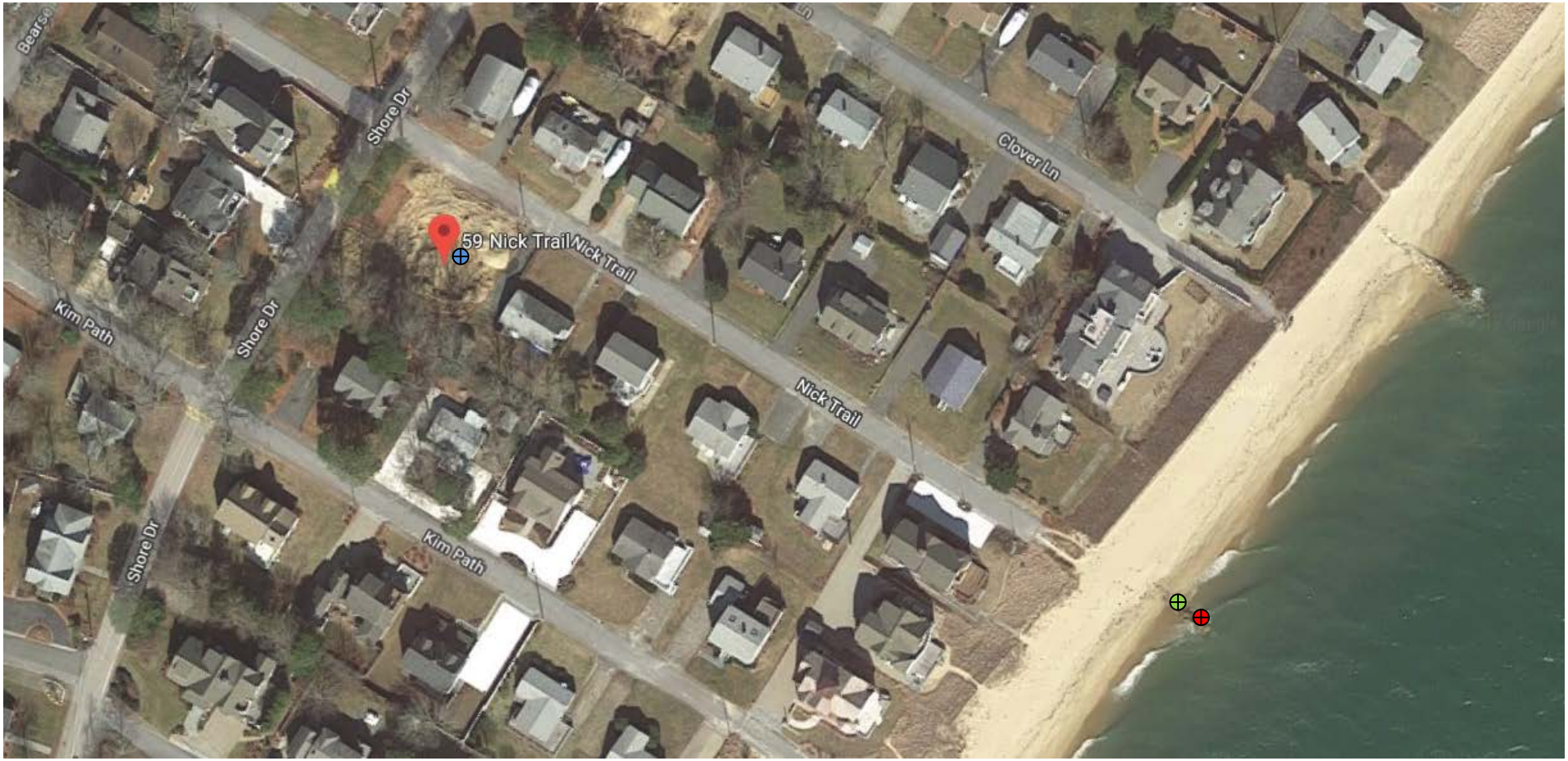
Figure 1 – Locus Plan
59 Nick Trail
Mashpee, Massachusetts



Source: Google Maps

KEY
Receiving Water Sample Location
Discharge Location
Test Pit Location

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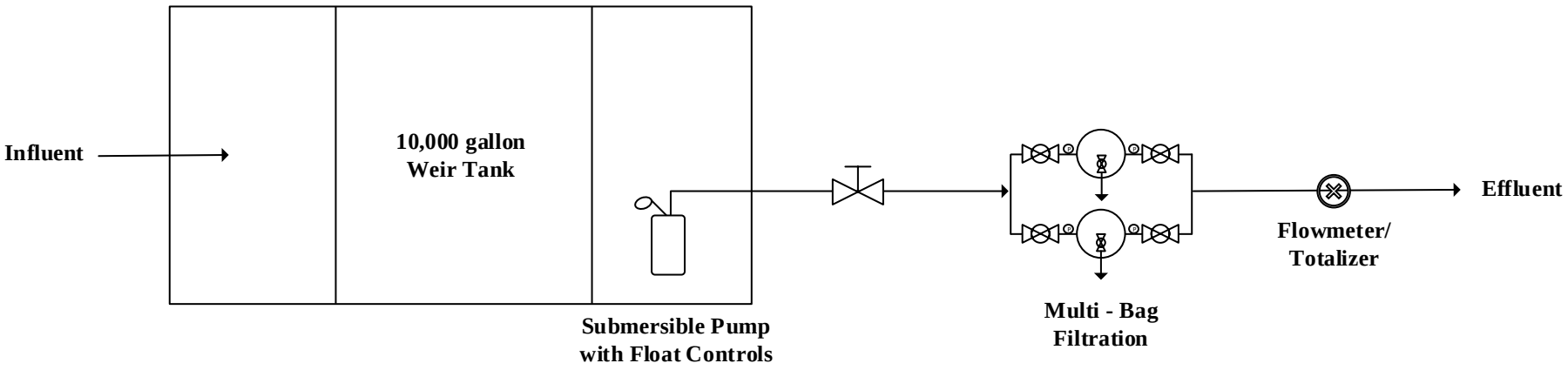
Fax: 888.835.0617
www.lrt-llc.net

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 ⟶

LRT Lockwood Remediation Technologies LLC	**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**	**PROJECT No.** 2-1676	**FIGURE No.** 3

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: 59 Nick Trail	**Mailing Address for the Facility:**	
b) Location Address of the Facility (if different from mailing address): 59 Nick Trail Mashpee, MA	**Facility Location** **longitude:** -70.463613 **latitude:** 41.572374	**Type of Business:** Residential **Facility SIC codes:**

c) Name of facility owner: John and Cheryl Fallon Trustees **Owner's email:** jackandcheryl3@yahoo.com

Owner's Tel #: (781) 771-2627 **Owner's Fax #:** _____

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: Lockwood Remediation Technologies, LLC

Operator Contact Name: Paul Lockwood

Operator Tel Number: (774) 450-7177 **Fax Number:** _____

Operator's email: plockwood@lrt-llc.net

Operator Address (if different from owner)

89 Crawford Street, Leominster, MA 01453

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:**

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: Popponesset Bay

State Water Quality Classification: Class SA **Freshwater:** _____ **Marine Water:** X

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 1

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 360,000 **GPD**

Average Monthly Flow 288,000 **GPD**

e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.3 **Min pH** 6.5

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)** I

If (P), number of days or months per year of the discharge _____ **and the specific months of discharge** _____;

If (I), number of days/year there is a discharge 30

Is the discharge temporary? Yes ✔ **No** _____

If yes, approximate start date of dewatering November 2018 **approximate end date of dewatering** January 2019

i.) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. -70.463686 **lat.** 41.572388**; Outfall 2: long.**_____ **lat.**_____**; Outfall 3: 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 NA - saltwater **cfs**

(See Appendix VII for equations and additional information)

MASSACHUSETTS 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 aquatic toxicity (NOAEL and/or LC_{50} 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

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix IV. In addition, respond to the following questions.

a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met? B
b) Please attach documentation with your NOI supporting your response. Please see Appendix IV for acceptable documentation

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? A

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:

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, MA

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 → X281859 (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 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 this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

1. Permit Code: 4 to 7 character code from permit instructions	2. Name of Permit Category
WM15	General Discharge Permit NPDES NOI

3. Type of Project or Activity: Construction Dewatering

B. Applicant Information – Firm or Individual

1. Name of Firm - Or, if party needing this approval is an individual enter name below: John and Cheryl Fallon Trustees

2. **Last Name** of Individual	3. **First Name** of Individual	4. MI
Fallon	Cheryl	

5. Street Address: 17 Maple Street

6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #
Braintree	MA	02184	781-771-2627	

11. Contact Person	12. e-mail address
Cheryl Fallon	jackandcheryl3@yahoo.com

C. Facility, Site or Individual Requiring Approval

1. Name of Facility, Site Or Individual: New Residential Construction

2. Street Address: 59 Nick Trail

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Mashpee	MA	02649		

8. DEP Facility Number (if Known)	9. Federal I.D. Number (if Known)	10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

1. Name of Firm Or Individual: Lockwood Remediation Technologies, LLC

2. Address: 89 Crawford Street

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Leominster	MA	01453	774-450-7177	

8. Contact Person	9. LSP Number (BWSC Permits only)
Paul Lockwood	

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☐ yes ☒ no
   If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

1. ☐ **Fee** Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
   There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

Check Number	Dollar Amount	Date
1766	$500.00	10/31/18

Appendix B

Laboratory Data

TABLE 1

Precharacterization Data Summary Table
59 Nick Trail
Mashpee, Massachusetts

	Sample Date	10/16/2018
	Discharge Standard	--
Analysis	Sample ID	Sample 1
pH	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	
pH	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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

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

Table of Contents

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

REPORT DATE: 10/25/2018

PURCHASE ORDER NUMBER: 2-1676

PROJECT NUMBER: 2-1676

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0868

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/MA1110
				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.	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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:

B

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

Analyte & Samples(s) Qualified:

Antimony
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.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.5	1.0		µg/L	1	B	EPA 200.8	10/22/18	10/24/18 12:17	MJH
Arsenic	ND	1.0		µg/L	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Cadmium	ND	0.20		µg/L	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Chromium	ND	10		µg/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		µg/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		µg/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		µg/L	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Selenium	ND	5.0	2.1	µg/L	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Silver	ND	0.20		µg/L	1		EPA 200.8	10/22/18	10/24/18 12:17	MJH
Zinc	ND	20		µg/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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time 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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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)

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time 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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

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

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215207 - EPA 200.7										
Blank (B215207-BLK1)				Prepared: 10/19/18 Analyzed: 10/22/18						
Iron	ND	0.050	mg/L							
LCS (B215207-BS1)				Prepared: 10/19/18 Analyzed: 10/22/18						
Iron	4.10	0.050	mg/L	4.00		102	85-115			
LCS Dup (B215207-BSD1)				Prepared: 10/19/18 Analyzed: 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 & Analyzed: 10/19/18						
Mercury	ND	0.00010	mg/L							
LCS (B215230-BS1)				Prepared & Analyzed: 10/19/18						
Mercury	0.00178	0.00010	mg/L	0.00200		89.0	85-115			
LCS Dup (B215230-BSD1)				Prepared & Analyzed: 10/19/18						
Mercury	0.00187	0.00010	mg/L	0.00200		93.6	85-115	5.10	20	
Batch B215381 - EPA 200.8										
Blank (B215381-BLK1)				Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	1.2	1.0	µg/L							B
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	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Zinc	ND	20	µg/L							
LCS (B215381-BS1)				Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	523	10	µg/L	500		105	85-115			B
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	µg/L	1000		102	85-115			
Lead	508	5.0	µg/L	500		102	85-115			
Nickel	514	50	µg/L	500		103	85-115			
Selenium	510	50	µg/L	500		102	85-115			
Silver	516	2.0	µg/L	500		103	85-115			
Zinc	1040	200	µg/L	1000		104	85-115			

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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: 10/22/18 Analyzed: 10/24/18						
Antimony	536	10	µg/L	500		107	85-115	2.47	20	B
Arsenic	533	10	µg/L	500		107	85-115	1.85	20	
Cadmium	545	2.0	µg/L	500		109	85-115	3.20	20	
Chromium	532	100	µg/L	500		106	85-115	1.51	20	
Copper	1040	10	µg/L	1000		104	85-115	2.00	20	
Lead	517	5.0	µg/L	500		103	85-115	1.75	20	
Nickel	525	50	µg/L	500		105	85-115	2.05	20	
Selenium	527	50	µg/L	500		105	85-115	3.27	20	
Silver	536	2.0	µg/L	500		107	85-115	3.70	20	
Zinc	1060	200	µg/L	1000		106	85-115	1.83	20	

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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			

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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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-03	Sample received after recommended holding time was exceeded.

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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

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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 Publilc 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

con-test ANALYTICAL LABORATORY
KKM
Phone: 413-525-2332 1850868
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Lockwood Remediation Technologies, LLC
Address:	89 Crawford Street, Leominster, MA
Phone:	774-450-7177
Project Name:	54 Nick Trail
Project Location:	54 Nick Trail, Mashpee, MA
Project Number:	2-1676
Project Manager:	Kim Gravelle
Con-Test Bid:	
Invoice Recipient:	
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: 5 DAY

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☐
Other:
Enhanced Data Package Required: ☐
Email To: kgravelle@lrt-llc.net
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	TSS SM2540D	Ammonia by SM4500B	Chloride by 300.0	Sb, As, Cd, Cr III, Cr VI, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn by 200.8	Cyanide SM 4500-CN E	TRC - Residual SM4500 Cl-G									# of Containers
																						[2] Preservation Code
																						[3] Container Code
								ANALYSIS REQUESTED														
1	Sample 1	10/16/18	12:30pm		X	GW	M/L	X	X	X	X	X	X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

IN pH: 7.6 Temp: Totalizer:
EF pH: Temp:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/17/18
Received by: (signature)	Date/Time: 10/17/18 2:30
Relinquished by: (signature)	Date/Time: 10/17/18 5:40
Received by: (signature)	Date/Time: 10/17/18 17:40
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other: 2017 NPDES RGP Standards

Program Information

○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

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

Client Lockwood

Received By up Date 10/17/18 Time 17:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 3.2

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T <2 Base T >12

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	4	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic	1	Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
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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

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

Table of Contents

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

REPORT DATE: 10/25/2018

PURCHASE ORDER NUMBER: 2-1676

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.	

con-test® ANALYTICAL LABORATORY

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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:

B

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]

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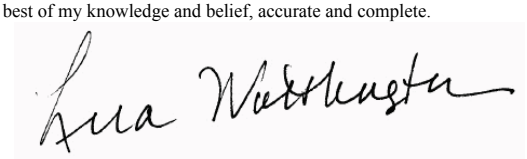
The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this 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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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 Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	10		µg/L	10	B-05, DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Arsenic	55	10		µg/L	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Cadmium	ND	2.0		µg/L	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Chromium	ND	100		µg/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		µg/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		µg/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		µg/L	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Selenium	180	50	21	µg/L	10	DL-15	EPA 200.8	10/22/18	10/24/18 12:11	MJH
Silver	ND	2.0		µg/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

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

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)

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

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

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)

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

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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)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time 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

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Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

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

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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 & Analyzed: 10/19/18						
Mercury	ND	0.00010	mg/L							
LCS (B215230-BS1)				Prepared & Analyzed: 10/19/18						
Mercury	0.00178	0.00010	mg/L	0.00200		89.0	85-115			
LCS Dup (B215230-BSD1)				Prepared & Analyzed: 10/19/18						
Mercury	0.00187	0.00010	mg/L	0.00200		93.6	85-115	5.10	20	
Batch B215380 - EPA 200.7										
Blank (B215380-BLK1)				Prepared: 10/22/18 Analyzed: 10/23/18						
Iron	ND	0.050	mg/L							
LCS (B215380-BS1)				Prepared: 10/22/18 Analyzed: 10/23/18						
Iron	4.17	0.050	mg/L	4.00		104	85-115			
LCS Dup (B215380-BSD1)				Prepared: 10/22/18 Analyzed: 10/23/18						
Iron	4.22	0.050	mg/L	4.00		106	85-115	1.18	20	
Batch B215381 - EPA 200.8										
Blank (B215381-BLK1)				Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	1.2	1.0	µg/L							B
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	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Zinc	ND	20	µg/L							
LCS (B215381-BS1)				Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	523	10	µg/L	500		105	85-115			B
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	µg/L	1000		102	85-115			
Lead	508	5.0	µg/L	500		102	85-115			
Nickel	514	50	µg/L	500		103	85-115			
Selenium	510	50	µg/L	500		102	85-115			
Silver	516	2.0	µg/L	500		103	85-115			
Zinc	1040	200	µg/L	1000		104	85-115			

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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: 10/22/18 Analyzed: 10/24/18						
Antimony	536	10	µg/L	500		107	85-115	2.47	20	B
Arsenic	533	10	µg/L	500		107	85-115	1.85	20	
Cadmium	545	2.0	µg/L	500		109	85-115	3.20	20	
Chromium	532	100	µg/L	500		106	85-115	1.51	20	
Copper	1040	10	µg/L	1000		104	85-115	2.00	20	
Lead	517	5.0	µg/L	500		103	85-115	1.75	20	
Nickel	525	50	µg/L	500		105	85-115	2.05	20	
Selenium	527	50	µg/L	500		105	85-115	3.27	20	
Silver	536	2.0	µg/L	500		107	85-115	3.70	20	
Zinc	1060	200	µg/L	1000		106	85-115	1.83	20	
Duplicate (B215381-DUP1)	**Source: 18J0879-01**			Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	ND	10	µg/L		ND			NC	20	B
Arsenic	53.8	10	µg/L		55.1			2.26	20	
Cadmium	ND	2.0	µg/L		ND			NC	20	
Chromium	ND	100	µg/L		ND			NC	20	
Copper	139	10	µg/L		160			14.5	20	
Lead	ND	5.0	µg/L		ND			NC	20	
Nickel	ND	50	µg/L		ND			NC	20	
Selenium	178	50	µg/L		180			1.02	20	
Silver	ND	2.0	µg/L		ND			NC	20	
Zinc	ND	200	µg/L		ND			NC	20	
Matrix Spike (B215381-MS1)	**Source: 18J0879-01**			Prepared: 10/22/18 Analyzed: 10/24/18						
Antimony	509	10	µg/L	500	1.67	101	70-130			B
Arsenic	541	10	µg/L	500	55.1	97.2	70-130			
Cadmium	435	2.0	µg/L	500	ND	87.1	70-130			
Chromium	565	100	µg/L	500	ND	113	70-130			
Copper	1070	10	µg/L	1000	160	90.8	70-130			
Lead	547	5.0	µg/L	500	ND	109	70-130			
Nickel	515	50	µg/L	500	14.6	100	70-130			
Selenium	599	50	µg/L	500	180	83.8	70-130			
Silver	437	2.0	µg/L	500	ND	87.5	70-130			
Zinc	866	200	µg/L	1000	ND	86.6	70-130			

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

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	

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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.
B	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.

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

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 Publilc 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

18T0879

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page Page of of

Company Name:	Lockwood Remediation Technologies, LLC
Address:	89 Crawford Street, Leominster, MA
Phone:	774-450-7177
Project Name:	54 Nick Trail
Project Location:	54 Nick Trail, Mashpee, MA
Project Number:	2-1676
Project Manager:	Kim Gravelle
Con-Test Bid:	
Invoice Recipient:	
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: 5 DAY

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☐
Other:
Enhanced Data Package Required: ☐
Email To: kgravelle@lrt-llc.net
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Salinity	Total Recoverable Metals: Sb, As, Cd, Cr III, Cr VI, Cu, Fe, Pb, Hg, Ni, Se, Ag and Zn	Ammonia by SM4500B
1	Receiving Water	10/16/18	12:00pm		X	O	M/L	X	X	X

ANALYSIS REQUESTED

# of Containers	1	1	1
[2] Preservation Code	I	N	S
[3] Container Code	P	P	P

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) O = Surface Water

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

pH: 6.5 Temp:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/17/18
Received by: (signature)	Date/Time: 10/17/18 2:30
Relinquished by: (signature)	Date/Time: 10/17/18 5:40
Received by: (signature)	Date/Time: 10/17/18 17:40
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other: 2017 NPDES RGP Standards

Program Information

○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

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

Client Lochwood

Received By np Date 10/17/18 Time 17:40

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 3.2

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name F

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid TC2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	3	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

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

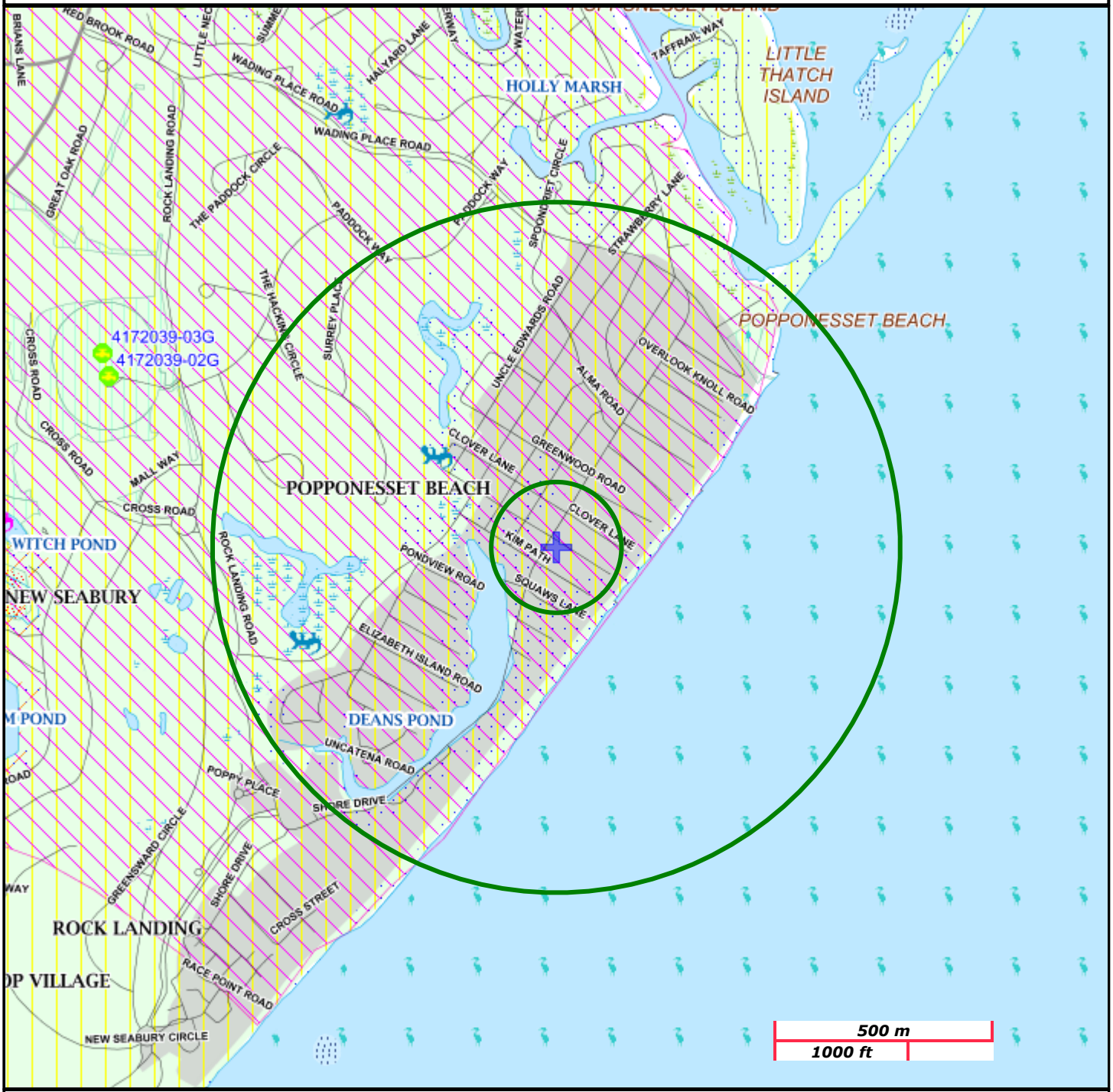
Site Information:

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 at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

Documentation of the Results of the ESA Eligibility Determination:

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:
Consultation Code: 05E1NE00-2019-SLI-0117
Event Code: 05E1NE00-2019-E-00264
Project Name: 59 Nick Trail

October 17, 2018

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: https://www.google.com/maps/place/41.572354727077695N70.46364058656759W

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[1], 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. NOAA Fisheries, 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* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Flowering Plants

NAME	STATUS
American Chaffseed *Schwalbea americana* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1286	Endangered

Critical habitats

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

Documentation of the National Historic Preservation Act Eligibility Determination:

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

National Register of Historic Places

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

National Park Service
U.S. Department of the Interior

= Site Boundary

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

From: Kim Gravelle
To: Vuto, Michelle
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** GeneralPermit, 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 Appendix IV 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—OEP06-4
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 <GeneralPermit.Dewatering@epa.gov>; jennifer.wood@state.ma.us
Cc: Paul Lockwood <plockwood@lrt-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

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