



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

April 1, 2019

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)**  
233 Hancock Street  
Dorchester, Massachusetts

Dear Sir/Madam:

On behalf of Haycon, Inc (Haycon), 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 new five-story mixed use building located at 233 Hancock Street Dorchester, 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 new five story building. To complete portions of the footing and foundation excavations in the dry, dewatering is required to lower the groundwater table as the work is being performed. To do this, a series of sumps within the work area will be utilized, and the water generated during dewatering (source water) will be pumped to a water treatment system prior to discharge to a Storm drain which drains to Dorchester Bay. To characterize groundwater from the proposed excavation area, LRT collected representative groundwater samples from one onsite test pit (Sample 1) on March 26, 2019.

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

A summary of the laboratory analytical results is provided in **Table 1**. The laboratory analytical summary tables and the laboratory analytical reports are 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**

Source water will be pumped to a treatment system with a design flow of up to 100 gallons per minute (gpm); the average effluent flow of the system is estimated to be 50 gpm, and the maximum flow will not exceed 100 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 dual bag filter skid (with two single bag filters). Discharge from the bag filters will pass through a flow/totalizer meter prior to direct discharge into a storm drain as depicted on **Figure 2**. A water treatment system schematic is provided as **Figure 3**.

### **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 Haycon, LRT is requesting coverage under the NPDES DGP for the discharge of treated water to a storm drain which drains to Dorchester Bay in support of construction dewatering activities that are to take place at 233 Hancock Street, 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

*Jacob Jennings*

Jacob Jennings  
Estimator

*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: Mark Pappas, Haycon – via email  
Francis M. McLaughlin, Boston Water and Sewer Commission – via email

## Figures





Source: MassGIS, Oliver Mapping Tool

### Notes

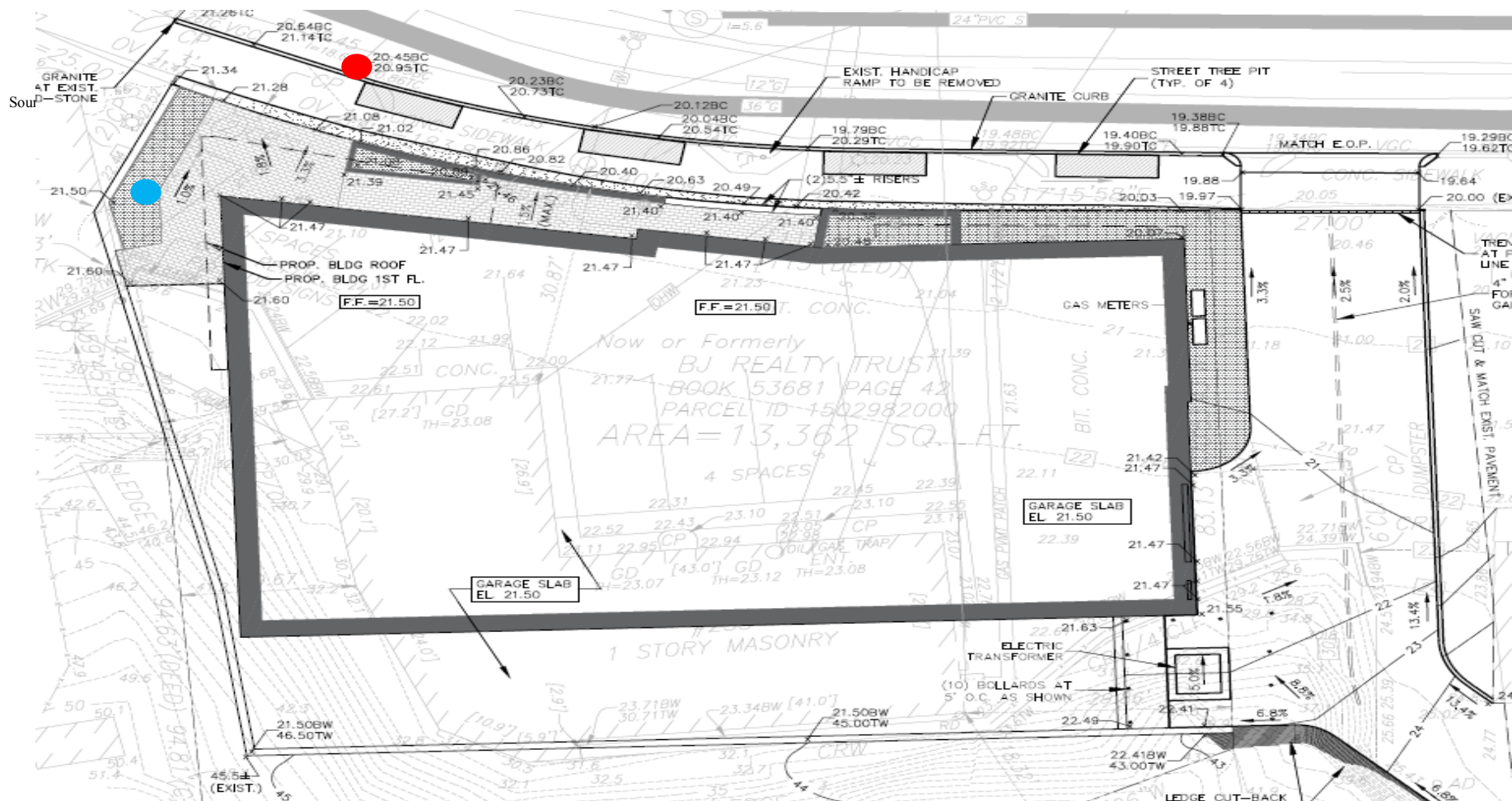
1. Figure is not to scale.



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**Figure 1 – Locus Plan**  
233 Hancock Street  
Dorchester, Massachusetts





Source: 233 Hancock st. Drawing set

### Notes

- Figure is not to scale

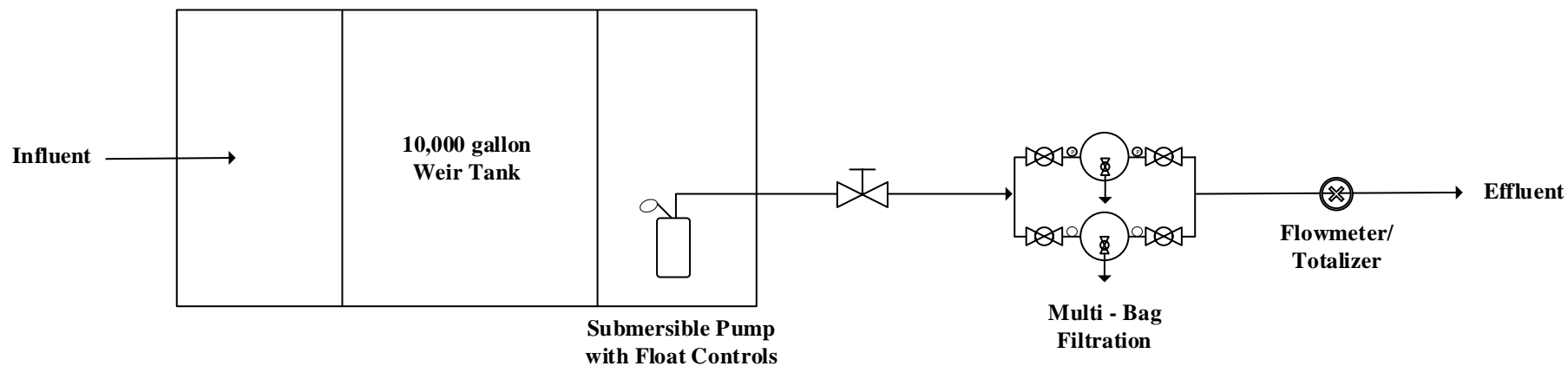
### Key

- Discharge location
- Water Treatment System location



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**Figure 2 – Site plan**  
233 Hancock Street  
Dorchester, Massachusetts



**Notes:**

- 1.) Figure is not to scale
- 2.) System rated for 100 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

Figure 3

233 Hancock Street  
Dorchester, Massachusetts

PROJECT No.  
2-1826

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: 233 Hancock Street		Mailing Address for the Facility: 233 Hancock Street, Dorchester MA	
b) Location Address of the Facility (if different from mailing address):	Facility Location	Type of Business:	
	longitude: <u>-71.060267</u> latitude: <u>42.309421</u>	Facility SIC codes:	
c) Name of facility owner: <u>233 Hancock LLC</u> Owner's email: <u>dmoll@arxurban.com</u> Owner's Tel #: <u>(617) 957-3444</u> Owner's Fax #: _____ Address of owner (if different from facility address) <u>25 Fayette Street, Unit 1 Boston, MA</u>			
Owner is (check one): 1. Federal _____ 2. State _____ 3. Private <input checked="" type="checkbox"/> 4. Other _____ (Describe) _____			
Legal name of Operator, if not owner: <u>Mark Angelo Pappas</u> Operator Contact Name: <u>Mark Pappas</u> Operator Tel Number: <u>(857) 225-0423</u> Fax Number: _____ Operator's email: <u>mpappas@haycon-inc.com</u> Operator Address (if different from owner) <b>35 Batchelder Street Boston, MA 02119</b>			
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? <input checked="" type="checkbox"/>			
e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number: _____ 2. Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Yes <input checked="" type="checkbox"/> No _____ 3. Is the facility covered by an individual NPDES permit? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number _____ 4. Is there a pending application on file with EPA for this discharge? Yes _____ No <input checked="" type="checkbox"/> 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: Dorchester Bay  
State Water Quality Classification: SB Freshwater:            Marine Water: Yes
- 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 144000 GPD  
Average Monthly Flow 72000 GPD
- e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.5 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.
- g.) What treatment does the wastewater receive 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 April 2019 through July 2019;  
If (I), number of days/year there is a discharge 90  
Is the discharge temporary? Yes ✓ No             
If yes, approximate start date of dewatering 4/15/2019 approximate end date of dewatering 7/15/2019
- i.) Latitude and longitude of each discharge within 100 feet (See [http://www.epa.gov/tri/report/siting\\_tool](http://www.epa.gov/tri/report/siting_tool)): Outfall 1: long. 42.306026 lat. -71.053376; 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            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<sub>50</sub> in percent for aquatic organism(s)).
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

**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? A \_\_\_\_\_
- 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: 233 Hancock Street

Operator signature: 

Print Full Name and Title: Mark Pappas , Project Manager

Date: 03/27/2019

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.

**Appendix B**  
**Laboratory Data**



**TABLE 1**

Precharacterization Data Summary Table  
 233 Hancock Street  
 Dorchester, Massachusetts

	Sample Date	3/26/2019
	Discharge Standard	--
Analysis	Sample ID	Sample 1
pH	6.5-8.3	6.8
Total Suspended Solids (TSS) (mg/l)	30	<2
Hardness (mg/l)	Monitor Only	182
Chloride (mg/l)	Monitor Only	785
<b>Total Metals</b>		
Arsenic	104	<10
Cadmium	10.2	<5
Chromium	74	<10
Copper	9.0	9.0
Iron	1,000	60
Mercury	0.739	<0.2
Nickel	52	<5
Lead	160	<5
Antimony	206	<5
Silver	3.2	<1
Zinc	120	22
Hexavalent Chromium	11	<10

Note:

Discharge Standards are NPDES 2017 RGP Standards

All data reported as ug/L unless otherwise specified.

-- = Not Analyzed



New England Testing Laboratory, Inc.  
(401) 353-3420

## REPORT OF ANALYTICAL RESULTS

**NETLAB Work Order Number: 9C26047**

**Client Project: 2-1826 - 233 Hancock St, Dorchester, MA**

Report Date: 01-April-2019

Prepared for:

Kim Gravelle

Lockwood Remediation Technologies LLC

89 Crawford St

Leominster, MA 01432

Richard Warila, Laboratory Director  
New England Testing Laboratory, Inc.  
59 Greenhill Street  
West Warwick, RI 02893  
rich.warila@newenglandtesting.com

***Samples Submitted :***

The samples listed below were submitted to New England Testing Laboratory on 03/26/19. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 9C26047. Custody records are included in this report.

<b>Lab ID</b>	<b>Sample</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
9C26047-01	Sample 1	Water	03/26/2019	03/26/2019

## ***Request for Analysis***

At the client's request, the analyses presented in the following table were performed on the samples submitted.

### **Sample 1 (Lab Number: 9C26047-01)**

#### **Analysis**

Antimony  
Arsenic  
Cadmium  
Calcium  
Chloride  
Copper  
Hexavalent Chromium  
Iron  
Lead  
Magnesium  
Mercury  
Nickel  
Silver  
Total Suspended Solids  
Zinc

#### **Method**

EPA 6010C  
EPA 6010C  
EPA 6010C  
SM3120-B  
SM4500CI-B  
EPA 6010C  
SM3500-Cr-B  
EPA 6010C  
EPA 6010C  
SM3120-B  
EPA 7470A  
EPA 6010C  
EPA 6010C  
SM2540-D  
EPA 6010C

## ***Method References***

*Methods for the Determination of Metals in Environmental Samples* EPA-600/R-94/111, USEPA, 1994

*Standard Methods for the Examination of Water and Wastewater, 20th Edition*, APHA/ AWWA-WPCF, 1998

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846*, USEPA

## **Case Narrative**

### Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

### Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

### Wet Chemistry

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures.



Results: General Chemistry

Sample: Sample 1  
Lab Number: 9C26047-01 (Water)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Chloride	785		50	mg/L	03/27/19	03/27/19
Hexavalent chromium	ND		0.01	mg/L	03/26/19 16:00	03/26/19 16:00
Total Suspended Solids	ND		2	mg/L	03/27/19	03/27/19

**Results: Total Metals****Sample: Sample 1****Lab Number: 9C26047-01 (Water)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
<b>Total Hardness</b>	<b>182</b>		0.125	mg/L	03/27/19	03/28/19
Antimony	ND		0.005	mg/L	03/27/19	03/28/19
Arsenic	ND		0.01	mg/L	03/27/19	03/28/19
Cadmium	ND		0.005	mg/L	03/27/19	03/28/19
<b>Calcium</b>	<b>60.1</b>		0.05	mg/L	03/27/19	03/28/19
<b>Copper</b>	<b>0.009</b>		0.005	mg/L	03/29/19	03/29/19
<b>Iron</b>	<b>0.06</b>		0.05	mg/L	03/27/19	03/28/19
Lead	ND		0.005	mg/L	03/27/19	03/28/19
<b>Magnesium</b>	<b>7.77</b>		0.05	mg/L	03/27/19	03/28/19
Mercury	ND		0.0002	mg/L	03/28/19	03/28/19
Nickel	ND		0.005	mg/L	03/27/19	03/28/19
Silver	ND		0.001	mg/L	03/29/19	03/29/19
<b>Zinc</b>	<b>0.022</b>		0.020	mg/L	03/27/19	03/28/19

## Quality Control

### General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B9C0966 - Chloride</b>										
<b>Blank (B9C0966-BLK1)</b>					Prepared & Analyzed: 03/27/19					
Chloride	ND		1	mg/L						
<b>LCS (B9C0966-BS1)</b>					Prepared & Analyzed: 03/27/19					
Chloride	62		1	mg/L	60.6		103	90-110		
<b>Duplicate (B9C0966-DUP1)</b>					Prepared & Analyzed: 03/27/19					
Chloride	31		1	mg/L		31			0.00	20
<b>Matrix Spike (B9C0966-MS1)</b>					Prepared & Analyzed: 03/27/19					
Chloride	96		2	mg/L	60.6	31	108	80-120		
<b>Batch: B9C0971 - TSS</b>										
<b>Blank (B9C0971-BLK1)</b>					Prepared & Analyzed: 03/27/19					
Total Suspended Solids	ND		2	mg/L						
<b>LCS (B9C0971-BS1)</b>					Prepared & Analyzed: 03/27/19					
Total Suspended Solids	1010		10	mg/L	1000		101	90-110		
<b>Duplicate (B9C0971-DUP1)</b>					Prepared & Analyzed: 03/27/19					
Total Suspended Solids	50		2	mg/L		51			0.985	20
<b>Batch: B9C0989 - Hexavalent Chrome</b>										
<b>Blank (B9C0989-BLK1)</b>					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	ND		0.01	mg/L						

**Quality Control**  
(Continued)

**General Chemistry (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B9C0989 - Hexavalent Chrome (Continued)										
Blank (B9C0989-BLK2)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	ND		0.01	mg/L						
LCS (B9C0989-BS1)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	0.55		0.01	mg/L	0.500		109	90-110		
LCS (B9C0989-BS2)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	0.09		0.01	mg/L	0.100		91.0	90-110		
LCS (B9C0989-BS3)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	0.53		0.01	mg/L	0.500		106	90-110		
Duplicate (B9C0989-DUP1)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	ND		0.01	mg/L		ND				20
Matrix Spike (B9C0989-MS1)					Prepared & Analyzed: 03/26/19					
Hexavalent chromium	0.45		0.01	mg/L	0.500	ND	90.4	80-120		

**Quality Control**  
(Continued)

**Total Metals**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B9C0947 - Hot plate acid digestion waters</b>										
<b>Blank (B9C0947-BLK1)</b>					Prepared: 03/27/19 Analyzed: 03/28/19					
Magnesium	ND		0.05	mg/L						
Calcium	ND		0.05	mg/L						
Zinc	ND		0.020	mg/L						
Nickel	ND		0.005	mg/L						
Antimony	ND		0.005	mg/L						
Lead	ND		0.005	mg/L						
Iron	ND		0.05	mg/L						
Cadmium	ND		0.005	mg/L						
Arsenic	ND		0.01	mg/L						
<b>LCS (B9C0947-BS1)</b>					Prepared: 03/27/19 Analyzed: 03/28/19					
Calcium	10.1		0.05	mg/L	10.0		101	85-115		
Zinc	0.977		0.020	mg/L	1.00		97.7	85-115		
Antimony	1.01		0.005	mg/L	1.00		101	85-115		
Nickel	0.960		0.005	mg/L	1.00		96.0	85-112		
Lead	0.957		0.005	mg/L	1.00		95.7	85-115		
Magnesium	9.72		0.05	mg/L	10.0		97.2	85-115		
Iron	9.78		0.05	mg/L	10.0		97.8	85-115		
Arsenic	0.20		0.01	mg/L	0.200		98.1	85-115		
Cadmium	0.964		0.005	mg/L	1.00		96.4	85-114		
<b>Batch: B9C1044 - Hot plate acid digestion waters</b>										
<b>Blank (B9C1044-BLK1)</b>					Prepared & Analyzed: 03/28/19					
Mercury	ND		0.0002	mg/L						
<b>LCS (B9C1044-BS1)</b>					Prepared & Analyzed: 03/28/19					
Mercury	0.0011		0.0002	mg/L	0.00100		106	85-115		



Quality Control  
(Continued)

Total Metals (Continued)

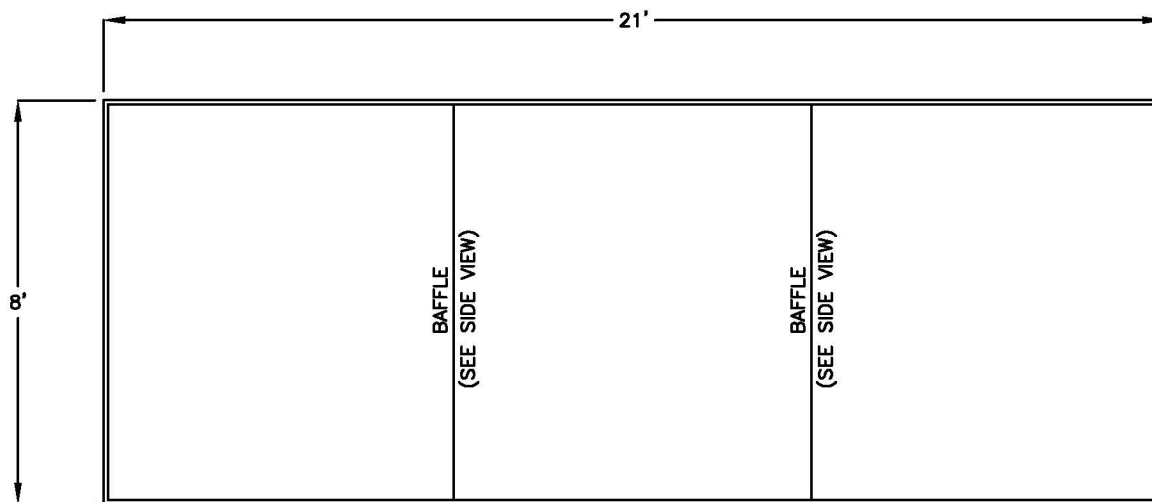
Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: B9C1073 - Hot plate acid digestion waters</b>										
<b>Blank (B9C1073-BLK1)</b>					Prepared & Analyzed: 03/29/19					
Silver	ND		0.005	mg/L						
Copper	ND		0.02	mg/L						
<b>LCS (B9C1073-BS1)</b>					Prepared & Analyzed: 03/29/19					
Silver	0.350		0.005	mg/L	0.400		87.6	85-115		
Copper	0.96		0.02	mg/L	1.00		95.9	85-115		

## Notes and Definitions

<b>Item</b>	<b>Definition</b>
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

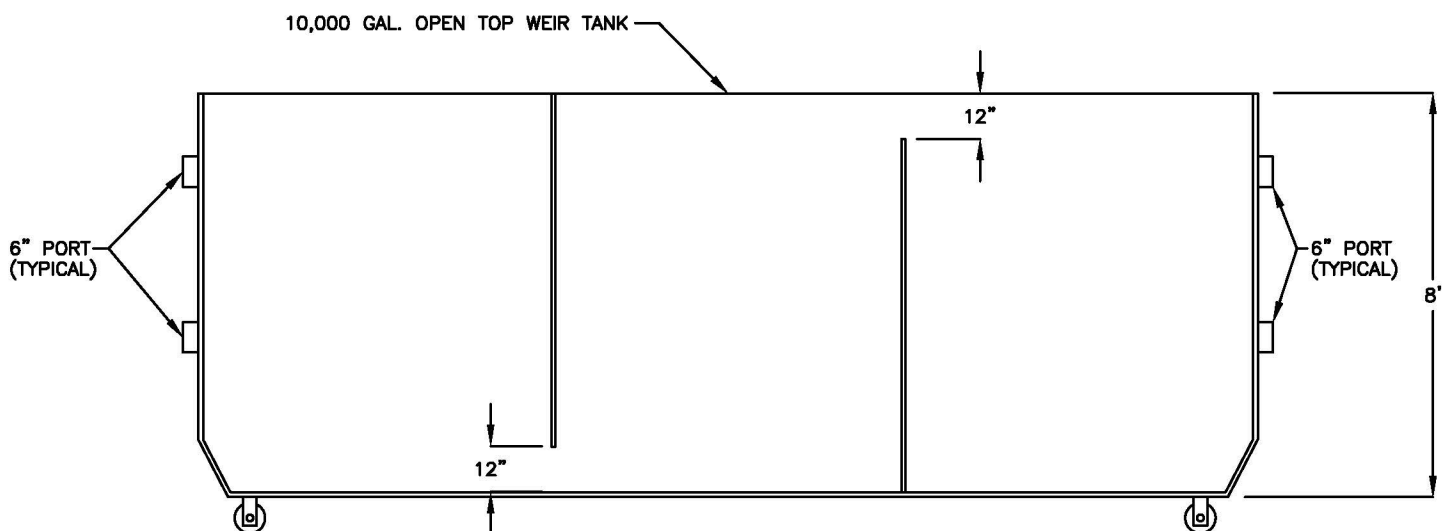


**Appendix C**  
**Water Treatment System**



TOP VIEW

NOT TO SCALE



SIDE VIEW

NOT TO SCALE



**LOCKWOOD REMEDIATION TECHNOLOGIES LLC**

89 Crawford Street  
Leominster, MA 01453  
TEL.: 774.450.7177 FAX: 888.835.0617  
[www.lrt-llc.net](http://www.lrt-llc.net)

*OPEN TOP  
10,000 GALLON WEIR TANK*

SCALE: NOT TO SCALE

DATE: 6/20/11

CLIENT:

SITE:

APP. BY: PL

DR. BY: K. HAZEL

JOB NO.:

FIGURE 1





# LB Series

Top discharge provides maximum motor cooling while allowing continuous duty operation.

Available in single-phase or three-phase. Pumps fit into 8-inch pipes.



## LB Series Features

### LB(T)-1500:

High chrome semi-open impeller resists wear for adhesive particles.

Diode motor protectors prevent stator damage in high amperage or run-dry situations.

Up to 70' shut off head

Slimline design allows pumps to fit into 8" pipes.



## LB Series Features

### LB-800:

Designed to fit an 8" pipe.

Up to 60' shut off head.

Available in 110V and 220V single-phase with 50 foot cables.

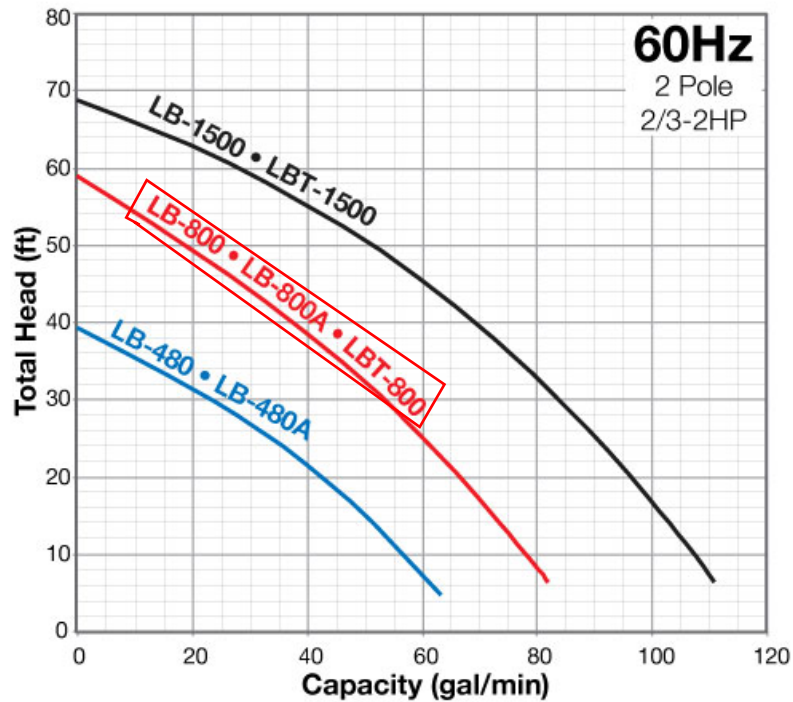
Double Inside Mechanical Seal With SiC faces provides the longest operational life.

Oil Lifter provides lubrication of the seal faces.

### OPTIONAL ACCESSORIES

Float Switch for automatic operation  
TS-302 for 110V, TS-303 for 220V.

## Performance Range



Model	Discharge Size (in.)	Motor Output (HP)	Voltage (V)	Cable Length (ft.)	Diameter (in.)	Height (in.)	Weight (lbs.)
LB-1500	3	2	110V or 220V	50	7 3/8	23 5/16	72
LB-480	2	2/3	110V	32	7 3/8	11 1/4	28
LB-480A	2	2/3	110V	32	8 3/4	11 1/4	30
LB-800	2	1	115V or 230V	50	7 3/8	13 7/16	35
LB-800A	2	1	115 or 230	50	8 3/4	23 5/16	38
LBT-1500	2 or 3	2	230 or 460 or 575V	50	7 3/8	23 5/16	85
LBT-800	2	1	230 or 460 or 575V	50	7 3/8	13 7/16	35



## ***Polyester Liquid Filter Bag***



### ***Features***

- \* Polyester liquid bag filter are available with a carbon steel ring, stainless steel ring or plastic flanges.
- \* Heavy-duty handle eases installation and removal
- \* Metal ring sewn into bag top for increased durability and positive sealing
- \* Wide array of media fibers to meet needed temperature and micron specifications

### ***Applications***

Polyester liquid filter bags can be used in the filtering of a wide array of industrial and commercial process fluids

### ***Sizes***

Our liquid filter bags are available for all common liquid bag housings. Dimensions range from 4.12" diameter X 8" length thru 9" diameter X 32" length.

### ***Micron Ratings***

Available fibers range from 1 to 1500 microns

### ***Options***

- \* Bag finish or covers for strict migration requirements.
- \* Plastic top O.E.M. replacements
- \* Multi-layered filtering capabilities for higher dirt holding capacities

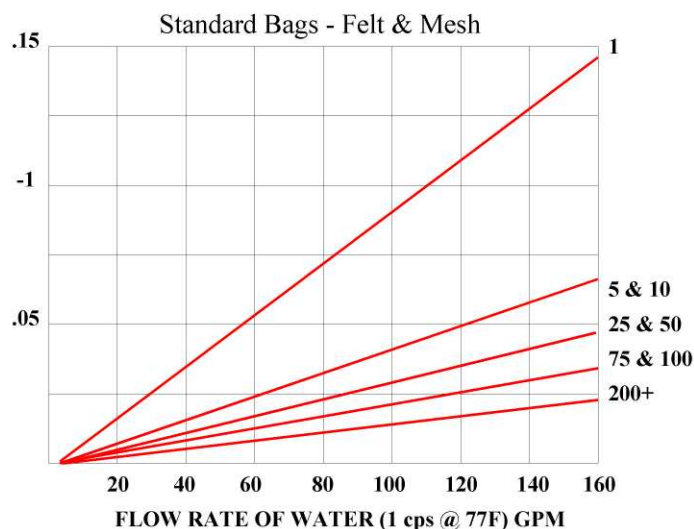
### ***Optional Filter Media***

**Felt:** Nomex, Polyester, Polypropylene

**Monofilament:** Nylon, Polyester, Polypropylene

**Multifilament:** Nylon, Polyester

**Polypropylene:** Oil Removal



## NOZZLE SCHEDULE

MARK	QTY	SIZE / RATING	DESCRIPTION
N1	1	2" 150# NPT	INLET
N2	1	2" 150# NPT	OUTLET
N3	2	1/2" 3000# NPT	PRESS GA
N4	1	1/2" 3000# NPT	VENT
N5	1	1/2" 3000# NPT	CLEAN DRAIN
N6	-	-	DIRTY DRAIN

## VESSEL DESIGN CONDITIONS

CODE: BEST COMMERCIAL PRACTICE

M.A.W.P.: 150 PSI @ 250°F

M.D.M.T.: -20° F @ 150 PSI

M.A.E.P.: 15 PSI @ 250°F

CORROSION ALLOWANCE: NONE HYDROTEST PRESS: 195 PSI

STAMP: 'NC'

SERVICE: NON LETHAL

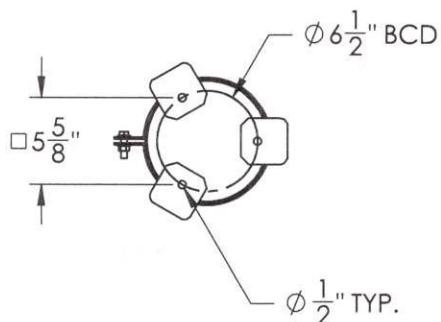
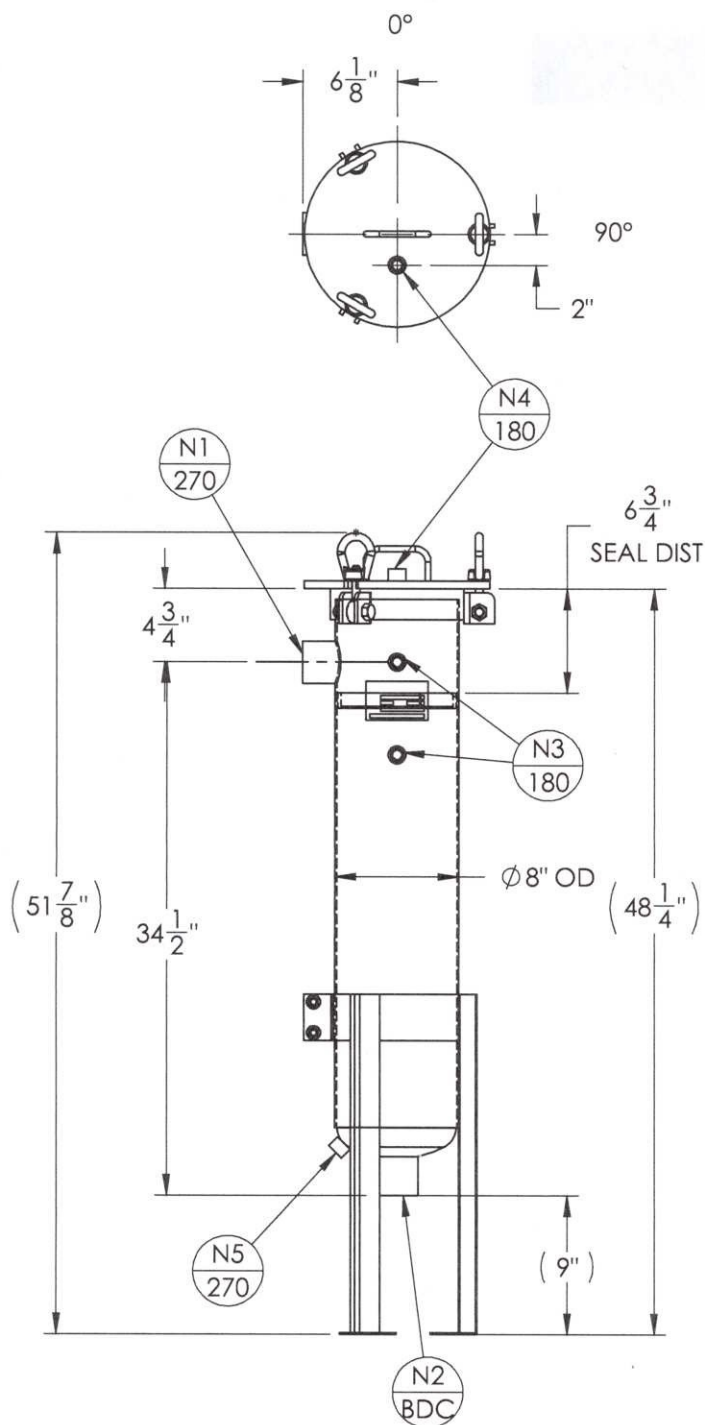
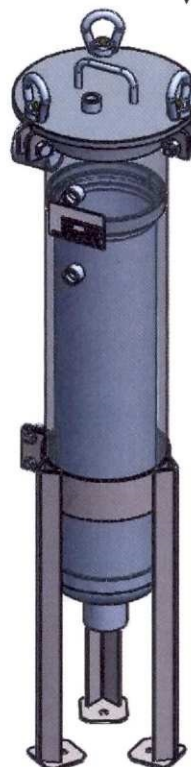
PWHT: N/A

RADIOGRAPHY: N/A

MATERIAL: SS 304/L

GASKET: BUNA-N

DRY WEIGHT: 77.62 #'s  
 FLOODED WEIGHT: 140 #'s  
 SHIPPING WEIGHT: 100 #'s  
 VESSEL VOLUME: 1.0 C.F.



## NOTES:

- VESSEL WILL HOUSE (QTY=1) DOUBLE LENGTH BASKET.

REV.	DATE	REVISION	DRAWN	APP'D
 <b>89 Crawford Street</b> <b>Leominster, MA 01453</b> <b>Tel: 774.450.7177</b> <b>Fax: 888.835.0617</b>				
LRT Provided Bag Filter Housing				
EQUIPMENT: BAG FILTER HOUSING (EB SERIES)				
MODEL NO: S4EB112-2P-SW				
CUSTOMER:				
PARENT: NONE	DRAWN: CR	DATE: JAN 13 2011	JOB No. V-	DWG. No. 001-0123
PAGE: 1 OF 4	CHK'D: JM	SCALE: NTS		REV. No. 0

**Appendix D**  
**Supplemental Information**



# MassDEP - Bureau of Waste Site Cleanup

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

### Site Information:

233 HANCOCK STREET  
233 HANCOCK STREET BOSTON, MA

### NAD83 UTM Meters:

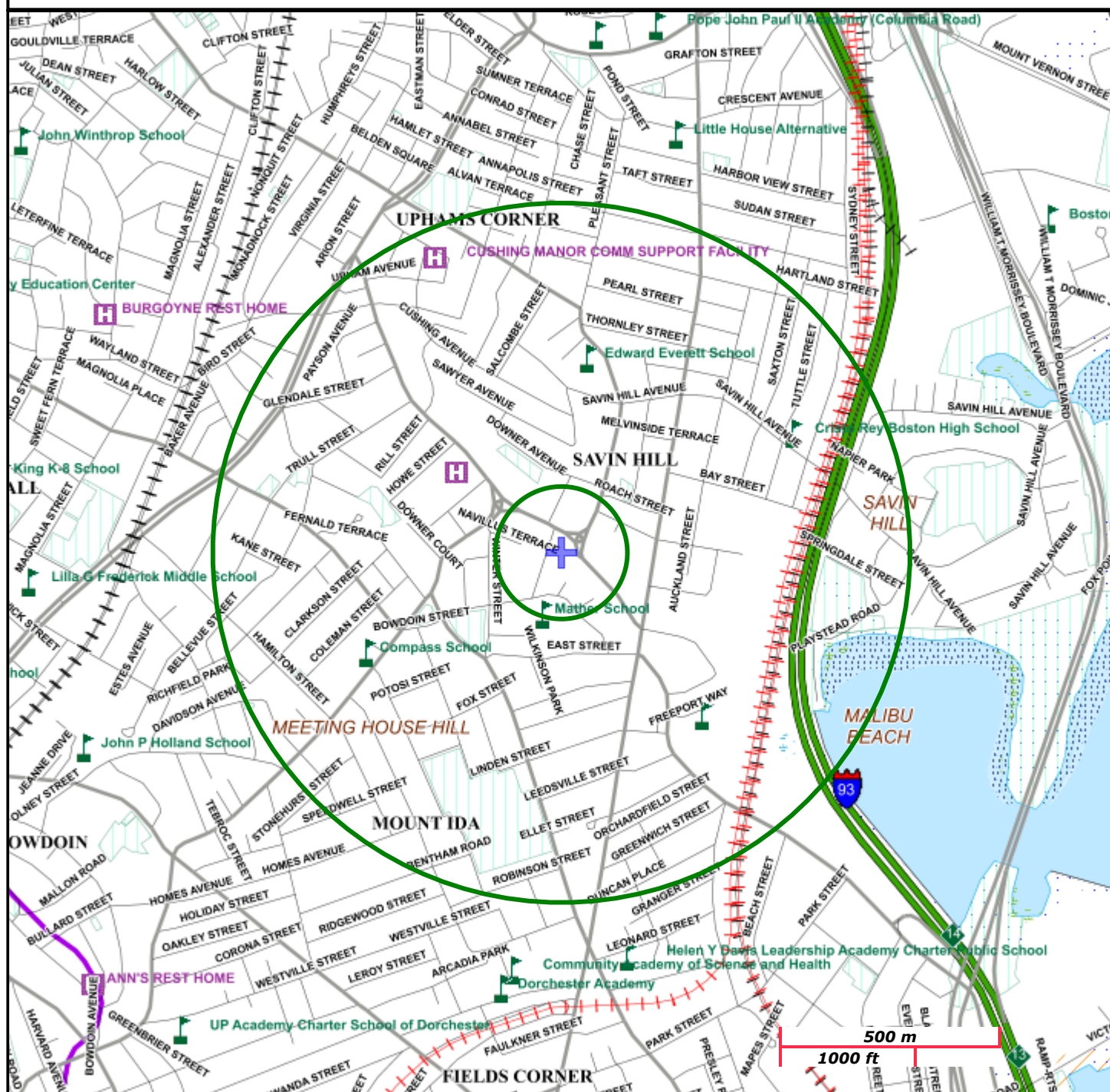
4686217mN, 330176mE (Zone: 19)  
March 19, 2019

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 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): Boston; Place: Dorchester; Street No: 233; Street Name: Hancock St; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
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Documentation of the Results of the ESA Eligibility Determination:

Using information in Appendix IV of the NPDES DGP, the project located at 233 Hancock Street, Dorchester, MA is eligible for coverage under this general permit under FWS Criterion C. This project is located in Suffolk 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:

No Endangered species found at this location.



## 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:

March 13, 2019

Consultation Code: 05E1NE00-2019-SLI-1121

Event Code: 05E1NE00-2019-E-02579

Project Name: 233 Hancock Street

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](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

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## Project Summary

Consultation Code: 05E1NE00-2019-SLI-1121

Event Code: 05E1NE00-2019-E-02579

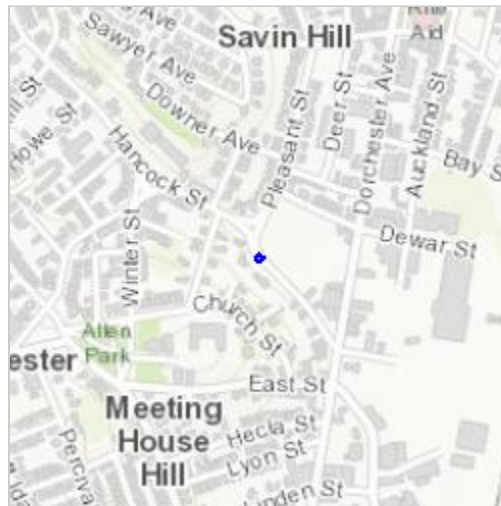
Project Name: 233 Hancock Street

Project Type: Water Withdrawal / Depletion

Project Description: Construction Dewatering

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.30951490924069N71.05992769286027W>



Counties: Suffolk, MA

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## Endangered Species Act Species

There is a total of 0 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. [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.

## Critical habitats

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

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**Boston Water and  
Sewer Commission**  
980 Harrison Avenue  
Boston, MA 02119-2540

## DEWATERING DISCHARGE PERMIT APPLICATION

### OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: \_\_\_\_\_ Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax number: \_\_\_\_\_

Contact person name: \_\_\_\_\_ Title: \_\_\_\_\_

Cell number: \_\_\_\_\_ Email address: \_\_\_\_\_

Permit Request (check one): ☐ New Application ☐ Permit Extension ☐ Other (Specify): \_\_\_\_\_

### Owner's Information (if different from above):

Owner of property being dewatered: \_\_\_\_\_

Owner's mailing address: \_\_\_\_\_ Phone number: \_\_\_\_\_

### Location of Discharge & Proposed Treatment System(s):

Street number and name: \_\_\_\_\_ Neighborhood: \_\_\_\_\_

Discharge is to a: ☐ Sanitary Sewer ☐ Combined Sewer ☐ Storm Drain ☐ Other (specify): \_\_\_\_\_

Describe Proposed Pre-Treatment System(s): \_\_\_\_\_

BWSC Outfall No. \_\_\_\_\_ Receiving Waters: \_\_\_\_\_

**Temporary Discharges** (Provide Anticipated Dates of Discharge): From \_\_\_\_\_ To \_\_\_\_\_  
☐ Groundwater Remediation ☐ Tank Removal/Installation ☐ Foundation Excavation  
☐ Utility/Manhole Pumping ☐ Test Pipe ☐ Trench Excavation  
☐ Accumulated Surface Water ☐ Hydrogeologic Testing ☐ Other: \_\_\_\_\_

### Permanent Discharges

☐ Foundation Drainage ☐ Crawl Space/Footing Drain  
☐ Accumulated Surface Water ☐ Non-contact/Uncontaminated Cooling  
☐ Non-contact/Uncontaminated Process ☐ Other: \_\_\_\_\_

1. Attach a Site Plan showing the source of the discharge and the location of the point of discharge (i.e. the sewer pipe or catch basin). Include meter type, meter number, size, make and start reading. Note. All discharges to the Commission's sewer system will be assessed current sewer charges.
2. If discharging to a sanitary or combined sewer, attach a copy of MWRA's Sewer Use Discharge permit or application.
3. If discharging to a separate storm drain, attach a copy of EPA's NPDES Permit or NOI application, or NPDES Permit exclusion letter for the discharge, as well as other relevant information.
4. Dewatering Drainage Permit will be denied or revoked if applicant fails to obtain the necessary permits from MWRA or EPA.

**Submit Completed Application to:** Boston Water and Sewer Commission  
Engineering Customer Services  
980 Harrison Avenue, Boston, MA 02119  
Attn: Matthew Tuttle, Engineering Customer Service  
E-mail: [tuttlemp@bwsc.org](mailto:tuttlemp@bwsc.org)  
Phone: 617-989-7204 Fax: 617-989-7716

Signature of Authorized Representative for Property Owner: \_\_\_\_\_

Date: \_\_\_\_\_