



**NOTICE OF INTENT FOR DISCHARGE  
PURSUANT TO MASSACHUSETTS  
REMEDATION GENERAL PERMIT  
MAG9100000**

**WATERSIDE PLACE 2  
BOSTON, MASSACHUSETTS**

**NOVEMBER 21, 2017**

Prepared For:

U.S. Environmental Protection Agency  
Office of Ecosystem Protection  
5 Post Office Square – Suite 100  
Mail Code OEP06-01  
Boston, MA 02109-3912

On Behalf Of:

The Drew Company  
&  
Suffolk Construction Co.

2269 Massachusetts Avenue  
Cambridge, MA 02140  
www.mcphailgeo.com  
(617) 868-1420

**PROJECT NO. 5996.9.00**



November 21, 2017

U.S. Environmental Protection Agency  
Dewatering GP Processing  
Industrial Permit Unit (OEP 06-4)  
5 Post Office Square – Suite 100  
Mail Code OEP06-01  
Boston, MA 02109-3912

Attention: To Whom It May Concern

Reference: Waterside Place 2, 505 Congress Street - Boston, Massachusetts  
Notice of Intent for Construction Dewatering Discharge Under  
Massachusetts Remediation General Permit MAG910000

Ladies and Gentlemen:

On behalf of Suffolk Construction Company, McPhail Associates, LLC (McPhail) has prepared the attached Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP) MAG910000 for the discharge of construction dewatering effluent into Boston Inner Harbor via the City of Boston storm drainage system. The temporary construction dewatering discharge will occur during construction of the proposed mixed-use development, known as Waterside Place 2, to be located at the approximate address of 505 Congress Street in Boston, Massachusetts (subject site). Refer to **Figure 1** entitled: "Project Location Plan" for the general site locus.

These services were performed and this permit application was prepared in accordance with our proposal dated August 11, 2015 and the subsequent authorization of Core Development Group, LLC. These services are subject to the limitations contained in **Appendix A**.

The required Notice of Intent Form contained in the RGP permit and Boston Water & Sewer Dewatering Discharge Permit Application are included in **Appendix B** and supporting information is included in **Appendix C**. This project is considered Activity Category III-G as defined in the RGP. Category III-G is defined as Contaminated Site Dewatering from Sites with Known Contamination. Based on historical and current soil and groundwater analysis completed at the site and constituents of concern (COCs) detected under subcategory A (Inorganics), thus, Technology Based Effluent Limitations (TBELs) for Type A contamination apply.



### **Applicant/Operator**

The applicant for the Notice of Intent-Dewatering General Permit is:

Suffolk Construction Company  
65 Allerton Street  
Boston, MA 02219

Attention: Nicholas Morel

Office: 617-517-5228  
Email: NMorel@suffolk.com

### **Site Location and Existing Conditions**

The subject site is located in the Seaport District of Boston and the proposed development is immediately west of the existing Waterside Place building. The site is bounded to the north by Congress Street, to the south by the existing Massachusetts Bay Transportation Authority (MBTA) Silver Line and its easement, and to the west by the World Trade Center Road viaduct. The existing ground surface across the site is relatively level at about Elevation +11 and currently is occupied by paved parking. The limits of the subject site are depicted on **Figure 2**.

### **Proposed Scope of Site Development**

The proposed building will have a footprint of about 27,500 square feet and will consist of a 21-story tower. The building will not contain basement space and the floor slab will be approximately coincident with the surrounding finished grade. The proposed building core will be situated towards the western portion of the building and will be supported on a rectangular core mat occupying a footprint of about 3,000 square feet. The excavation required to construct the core mat is anticipated to extend to a depth about 12 feet below the existing site grades.

### **Site History**

In summary, historical information of the surrounding area indicates a gradual filling of the tidal flats in South Boston along the Boston Harbor waterfront. During the late 1800s and the early 1900s the area surrounding the subject site reached its current configuration and the majority of the surrounding properties were gradually occupied by commercial establishments, light industrial facilities, warehouses, railway yards, freight terminals and motor vehicle service facilities. The majority of the subject site area was occupied by a railway yard and a freight terminal that contained multiple rail lines for approximately fifty (50) years. A 1988 Sanborn Map indicates that the majority of the rail lines were removed



from the subject site and ceased to serve as a freight terminal. During the early 2000's, the subject site was used as a staging area by contractors during the construction of the Central Artery Tunnel (CAT) Project and the Interstate 1-90 tunnel located to the south of the subject site. Following the completion of the CAT Project the current silver line station to the northwest and southwest was constructed as well as the current asphalt paved parking lot occupying the subject site.

### **MCP Regulatory Status and Site Environmental Setting**

Based on our review of the Massachusetts Department of Environmental Protection (DEP) on-line waste-site database, the subject site is not a MassDEP listed release site.

According to an on-line edition of the Massachusetts Geographic Information Systems DEP which was viewed on September 20, 2017, the subject site is not located within the boundaries of a Sole Source Aquifer, Potentially Productive Aquifer or within a Zone II, Interim Wellhead Protection Area as defined by the Massachusetts Department of Environmental Protection. Further, there are no public drinking water supply wells, no Areas of Critical Environmental Concern, no fish habitats, no habitats of Species of Special Concern or Threatened or Endangered Species within specified distances of the subject site.

The GIS Map indicates that there are no wetland areas on or within 500 feet of the subject site. The closest water body is Boston Inner Harbor, which is located approximately 550 feet to the northeast of the subject site. The map indicates that the closest Protected Open Space to the subject site is located approximately 3,600 feet to the south-southwest. There are no areas designated as solid waste sites (landfill) noted as being located within 3,000 feet of the subject site. A copy of the Massachusetts GIS Priority Resources Map is included in **Appendix C**. In addition, a report prepared by Environmental Database Resource, Inc. (EDR) was reviewed for this study. Based on EDR's search of FEMA Flood Plain Maps, the subject site is not located within a 100 year or 500 year flood plain.

A review of information provided by the U.S. Fish and Wildlife Service in an Information for Planning and Conservation (IPaC) Trust Resource Report for the subject site did not identify the presence of endangered species at or in the vicinity of the discharge location and/or discharge outfall. Further, the Trust Resource Report did not identify the presence of a critical habitat in the vicinity of the discharge outfall and/or discharge location. However, the report indicated that the Red Knot bird, which is classified as a "threatened" species, should be considered with regard to this project. Based on correspondence with the New England Field Office for the U.S. Fish and Wildlife Service, groundwater discharge from the subject site to Boston Inner Harbor is not considered likely to adversely affect the Red Knot bird. Based upon the above, the site is considered a criterion B pursuant to Appendix IV of the DGP. A copy of the IPaC Trust Resource Report and correspondence are included in **Appendix C**.

A review of the online Massachusetts Cultural Resource Information System and the National Register of Historical Places for Suffolk County in Boston, Massachusetts did not



identify records or addresses of historic places that exist in the immediate vicinity of the subject site and/or outfall location.

### **Temporary Construction Dewatering**

To facilitate the construction of the proposed core mat, general site excavation is anticipated to extend approximately 12 feet below the existing site grades, which is approximately 8 feet below the observed groundwater level. To reduce the required size of the excavation, backfilling, and dewatering, excavation for the core mat will be performed within an enclosure formed by continuously interlocking steel sheet piling coffer dam. The steel sheet piling coffer dam be installed into the surface of the marine clay deposit in order to provide a temporary groundwater cutoff. The core mat may vary from Elevation -30 to Elevation -50.

Based on the subsurface conditions at the site, the recharge of construction dewatering effluent on-site is not considered to be feasible. As a result, in order to perform the excavation for the core mat and also to provide for management of water which may become trapped within the excavation areas following periods of precipitation, the construction dewatering discharge into the city's storm drain is necessary.

With a groundwater cutoff provided by the steel sheet piles, it is anticipated that dewatering can be achieved by conventional sump pumping. It is also anticipated that dewatering of localized excavations for pile caps can be achieved by sump pumping. It is estimated that continuous groundwater discharge during the construction will be on the order of 25 to 50 gallons per minute (gpm). The maximum daily flow is estimated to be 72,000 GPD and the average monthly flow is estimated to be 54,000 GPD.

A review of available subgrade utility plans provided by the Boston Water and Sewer Commission indicates the presence of dedicated 30-inch storm drain located at the subject site which connect to dedicated storm drains beneath Congress Street. Stormwater is collected within each of the storm drains and flows southeast into a storm drain located beneath D Street. The stormwater drain located beneath D Street flows northeast into a storm drain located beneath Seaport Boulevard which runs northwest where it eventually discharges into Boston Inner Harbor. The location of the relevant stormwater drains in relation to the subject site are indicated on **Figure 2**. The flow path of the discharge is shown in a plan provided by the Boston Water and Sewer Commission which is included in **Figure 3**.

### **Summary of Groundwater Analysis**

On April 13, 2017, one representative groundwater sample identified as M 108 (OW) was submitted to a laboratory for chemical analysis for the presence of total metals, total suspended solids (TSS), chloride, total residual chlorine, and pH. A summary of the analytical data is provided on **Table 1**. A copy of the laboratory report is included in



**Appendix D.** In summary, previous collection and laboratory analysis of soil and groundwater from the subject site did not indicate the presence of total metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), and/or polychlorinated biphenyls (PCBs) above MCP Method 1 Risk Standards. More recent laboratory analysis of groundwater obtained from M 108 (OW) indicates detectable levels of RGP Section A (Inorganics) including antimony, arsenic, chromium, copper, iron, and nickel. Concentration of detected compounds did not exceed Method 1 Risk Standards nor limitations established by the EPA for discharge into a marine water body.

Per the EPA, a receiving water body sample was obtained from the Boston Inner Harbor as indicated on **Figure 2** and analyzed for Recoverable Metals, pH, Ammonia, and Salinity. The results of the sample were tabulated and assessed using Appendix V of the 2017 NPDES RGP included in **Appendix C** and summarized in **Table 2** and verified by laboratory data analysis located in **Appendix E**. Based upon the Appendix V calculations, TBELs apply to this specific discharge.

### **Groundwater Treatment**

Based on the results of the above referenced groundwater analyses, it is our opinion that a 5,000-gallon capacity settling tank and bag filter in series will be required to settle and filter out TSS in the discharge during construction dewatering to meet applicable effluent limits established by the US EPA prior to off-site discharge. A schematic of the treatment system is shown on **Figure 4**.



U.S. EPA  
November 21, 2017  
Page 6

### **Summary and Conclusions**

The purpose of this report is to assess site environmental conditions and groundwater data at proposed Waterside Place 2 development site located at 505 Congress Street in the Seaport District of Boston, Massachusetts to support the attached Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP) MAG910000 for the discharge of construction dewatering effluent into Boston Inner Harbor via the City of Boston storm drainage system.

We trust that the above satisfies your present requirements. Should you have any questions or comments concerning the above, please do not hesitate to contact us.

Sincerely,

McPHAIL ASSOCIATES, LLC

A blue ink signature of Kirk W. Seaman, consisting of a stylized, cursive script.

Kirk W. Seaman

A blue ink signature of William J. Burns, L.S.P., consisting of a stylized, cursive script.

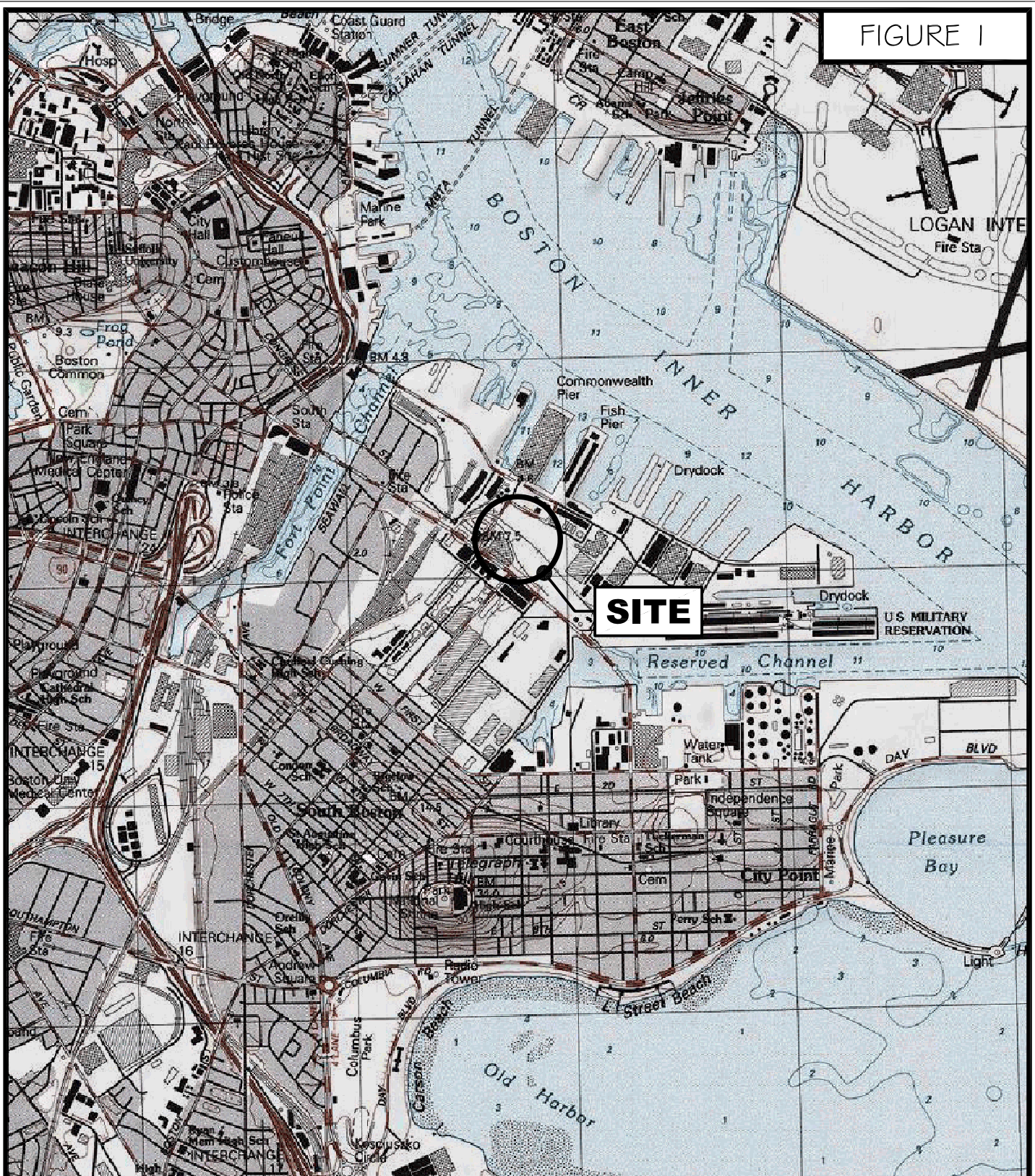
William J. Burns, L.S.P.

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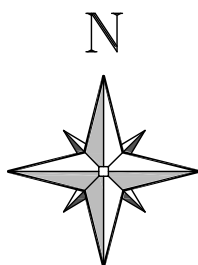
KWS/bfm/wjb



FIGURE I



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SCALE 1:25,000

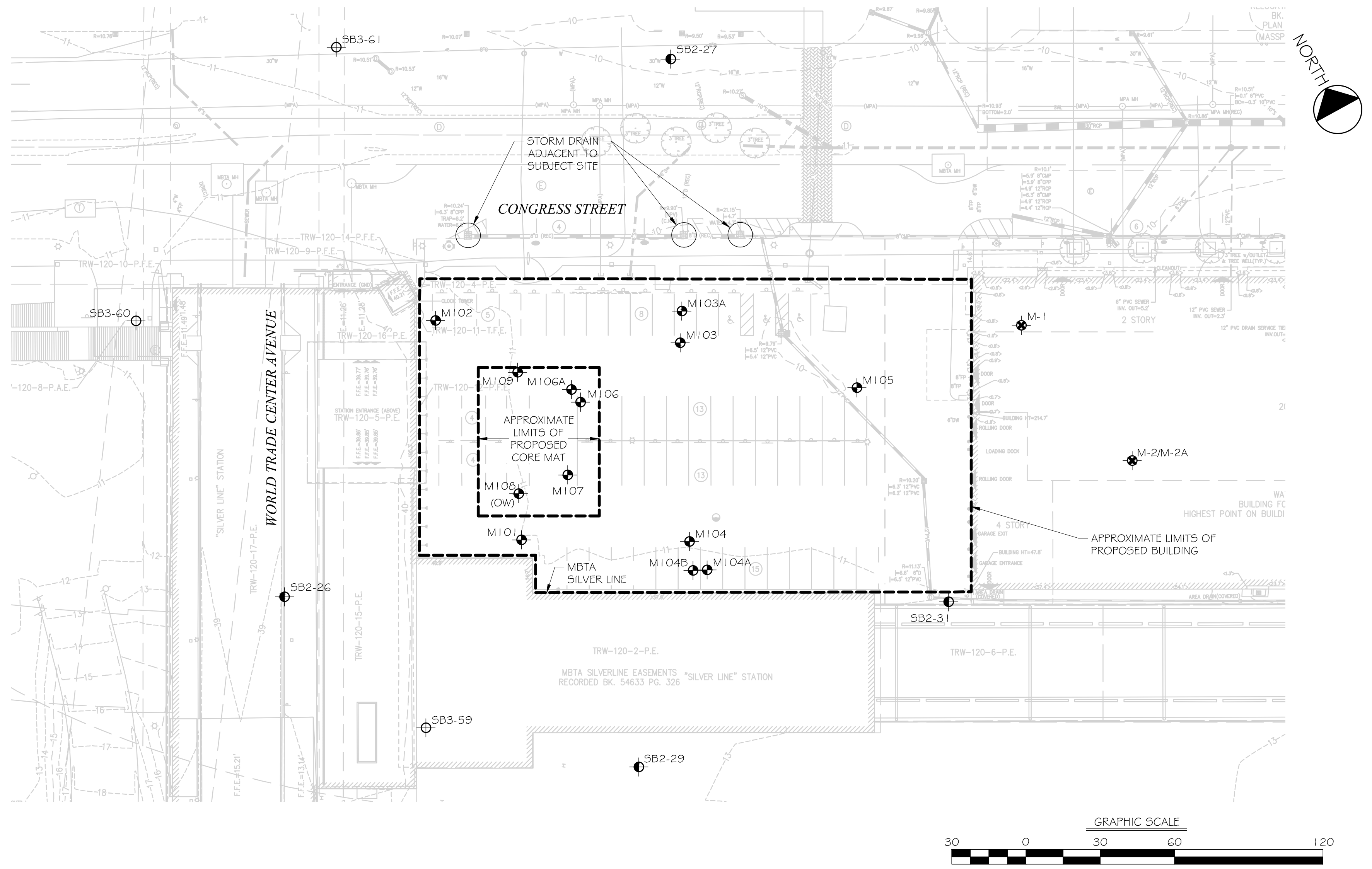
## PROJECT LOCATION PLAN

WATERSIDE PLACE 2

BOSTON

MASSACHUSETTS





LEGEND

- APPROXIMATE LOCATION OF BOREHOLE PERFORMED BY CARR-DEE CORP. DURING THE PERIOD OF SEPTEMBER 26 THROUGH OCTOBER 19, 2016 FOR McPHAIL ASSOCIATES, LLC
- APPROXIMATE LOCATION OF BOREHOLE PERFORMED BY GEOLOGIC EARTH EXPLORATIONS, INC. DURING THE PERIOD OF JUNE 30 THROUGH AUGUST 1, 2011 FOR McPHAIL ASSOCIATES, LLC
- APPROXIMATE LOCATION OF BOREHOLE PERFORMED BY GZA DRILLING, INC. DURING THE PERIOD OF DECEMBER 1989 THROUGH MARCH 1990 FOR HALEY & ALDRICH, INC.
- APPROXIMATE LOCATION OF BOREHOLE PERFORMED BY GUILD DRILLING CO., INC. DURING THE PERIOD OF MAY 1991 THROUGH SEPTEMBER 1991 FOR HALEY & ALDRICH, INC.
- (OW) — INDICATES OBSERVATION WELL INSTALLED IN COMPLETED BOREHOLE

REFERENCE: THIS PLAN WAS PREPARED FROM A 30-SCALE DRAWING ENTITLED "EXISTING CONDITIONS PLAN" DATED AUGUST 5, 2015 PREPARED BY VHB

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WATERSIDE PLACE 2			
BOSTON		MASSACHUSETTS	
SUBSURFACE EXPLORATION PLAN			
FOR THE DREW COMPANY & SUFFOLK CONSTRUCTION CO. BY McPHAIL ASSOCIATES, LLC			
Date:	NOVEMBER 2017	Dwn:	F.G.P.
Chkd:	B.F.M.	Scale:	1" = 30'
Project No:	5996		FIGURE 2

FILE NAME: N:\Acad\UOB5\5996\RGF5996-FO2.dwg



FIGURE 3

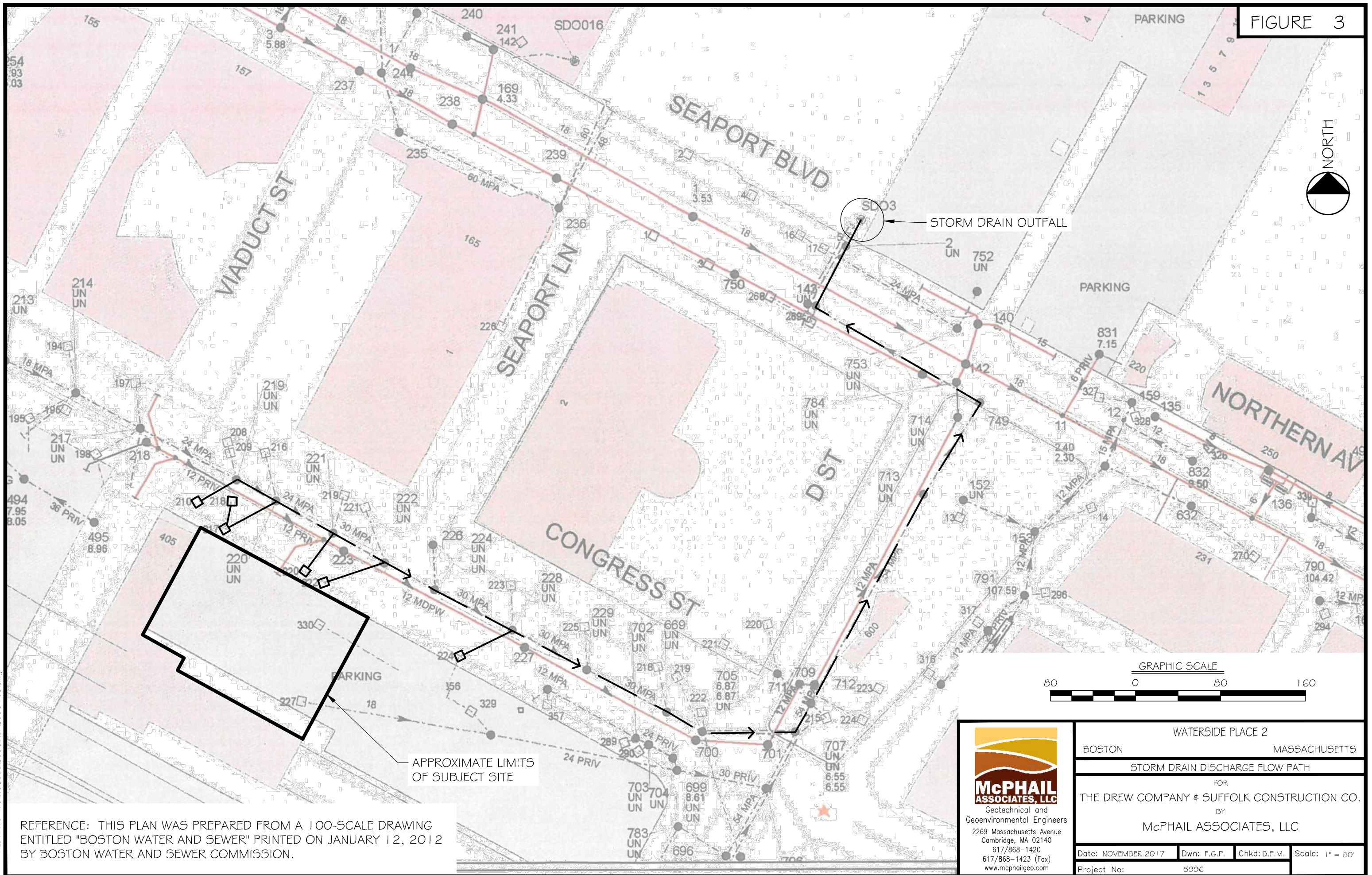
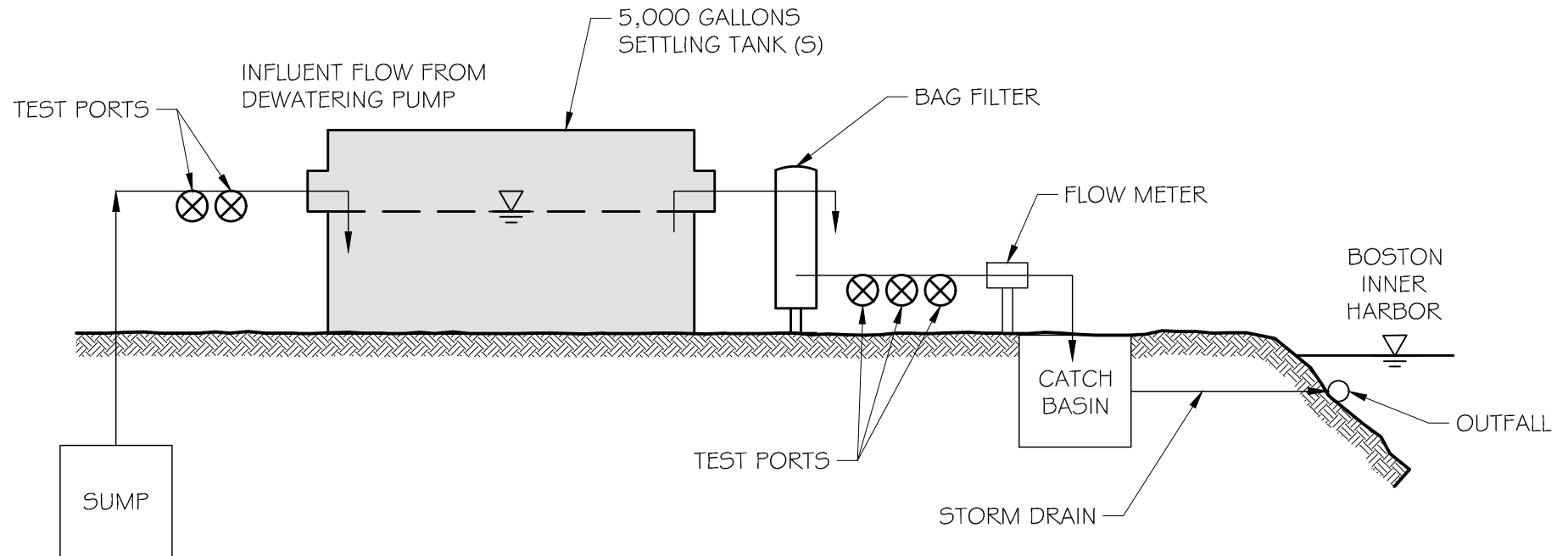




FIGURE 4



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WATERSIDE PLACE 2

BOSTON

MASSACHUSETTS

SCHEMATIC OF WATER FLOW

FOR

THE DREW COMPANY & SUFFOLK CONSTRUCTION CO.

BY

McPHAIL ASSOCIATES, LLC  
CONSULTING GEOTECHNICAL ENGINEERS

Date: NOVEMBER 2017

Dwn: F.G.P.

Chkd: B.F.M.

Scale: N.T.S.

Project No:

5980

TABLE 1  
Analytical Results - Groundwater

Waterside Place 2  
Boston, Massachusetts  
Project No. 5996

LOCATION	TBEL Limits (mg/L)	M 108 (OW)
SAMPLING DATE		4/13/2017
LAB SAMPLE ID		L1711749-01
SAMPLE TYPE		GW
Anions by Ion Chromatography		
Chloride	---	2520
General Chemistry		
Solids, Total Suspended	30	14
Chlorine, Total Residual	0.2	ND(0.02)
pH (H)		8.4
Chromium, Hexavalent	0.0001	0.004
Total Metals	0	
Antimony, Total	0.206	0.00333
Arsenic, Total	0.104	0.00635
Cadmium, Total	0.0102	ND(0.001)
Chromium, Total	0.323	0.00182
Copper, Total	0.242	0.00823
Iron, Total	5	0.063
Lead, Total	0.16	ND(0.001)
Mercury, Total	0.000739	ND(0.0002)
Nickel, Total	1.45	0.00192
Zinc, Total	0.42	ND(0.01)

ND - not detected laboratory method detection limits  
(#) - detection limit  
Blank - not tested

**TABLE 2**  
**Analytical Results - Surface water**

**Waterside Place 2**  
**Boston, Massachusetts**  
**Project No. 5996**

		<b>BOSTON INNER</b>
<b>LOCATION</b>		<b>HARBOR</b>
<b>SAMPLING DATE</b>		<b>5/11/2017</b>
<b>LAB SAMPLE ID</b>		<b>L1715446-01</b>
		<b>Results</b>
General Chemistry (SU & ug/l)		
	SALINITY	20
	Nitrogen, Ammon	95
Total Metals (ug/l)		
	Arsenic, Total	ND
	Copper, Total	ND
	Iron, Total	136
	Lead, Total	ND
	Zinc, Total	ND

ND - not detected laboratory method detection limits

(#) - detection limit

Blank - not tested



## **APPENDIX A:**

## **LIMITATIONS**





## **LIMITATIONS**

The purpose of this report is to present a summary of environmental conditions, including the results of testing of groundwater samples obtained from a groundwater monitoring well on the property located at 505 Congress Street in Boston, Massachusetts in support of an application for approval of temporary construction dewatering discharge of groundwater into surface waters of the Commonwealth of Massachusetts under EPA's Massachusetts Remediation General Permit MAG910000.

The observations were made under the conditions stated in this report. The conclusions presented above were based on these observations. If variations in the nature and extent of subsurface conditions between the spaced subsurface explorations become evident in the future, it will be necessary to re-evaluate the conclusions presented herein after performing on-site observations and noting the characteristics of any variations.

The conclusions submitted in this report are based in part upon analytical data obtained from analysis of groundwater samples, and are contingent upon their validity. The data have been reviewed, and interpretations have been made in the text. It should also be noted that fluctuations in the types and levels of contaminants and variations in their flow paths may occur due to changes in seasonal water table, past practices used in disposal and other factors.

Laboratory analyses have been performed for specific constituents during the course of this assessment, as described in the text. However, it should be noted that additional constituents not searched for during the current study may be present in soil and/or groundwater at the site.

This report and application have been prepared on behalf of and for the exclusive use of The Drew Company and Suffolk Construction Co. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, other than the submission to relevant governmental agencies, nor used in whole or in part by any other party without prior written consent of McPhail Associates, LLC.



**APPENDIX B:**

**NOTICE OF INTENT - NPDES REMEDIATION GENERAL PERMIT  
BOSTON WATER & SEWER DEWATERING DISCHARGE PERMIT  
APPLICATION**

## II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

### A. General site information:

1. Name of site: Waterside Place 2	Site address: 505 Congress Street  Street:		
2. Site owner The Drew Company  Owner is (check one): <input type="checkbox"/> Federal <input type="checkbox"/> State/Tribal <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other; if so, specify:	City: Boston	State: MA	Zip: 02210
3. Site operator, if different than owner Suffolk Construction Company	Contact Person: Theonie Alicandro  Telephone: 617 312 6800      Email: theonie.alicandro@drewcompany  Mailing address: Street: 2 Seaport Lane, 9th Floor  City: Boston      State: MA      Zip: 02210		
4. NPDES permit number assigned by EPA:  NPDES permit is (check all that apply): <input type="checkbox"/> RGP <input type="checkbox"/> DGP <input type="checkbox"/> CGP <input type="checkbox"/> MSGP <input type="checkbox"/> Individual NPDES permit <input type="checkbox"/> Other; if so, specify:	5. Other regulatory program(s) that apply to the site (check all that apply):  <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> MA Chapter 21e; list RTN(s):   <input type="checkbox"/> NH Groundwater Management Permit or            Groundwater Release Detection Permit:         </div> <div> <input type="checkbox"/> CERCLA  <input type="checkbox"/> UIC Program  <input type="checkbox"/> POTW Pretreatment  <input type="checkbox"/> CWA Section 404         </div> </div>		

**B. Receiving water information:**

1. Name of receiving water(s): <b>Boston Inner Harbor</b>	Waterbody identification of receiving water(s): <b>Marine</b>	Classification of receiving water(s): <b>SB</b>
Receiving water is (check any that apply): <input type="checkbox"/> Outstanding Resource Water <input type="checkbox"/> Ocean Sanctuary <input type="checkbox"/> territorial sea <input type="checkbox"/> Wild and Scenic River		
2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Are sensitive receptors present near the site? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify:		
3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. No TMDL for Boston Harbor		
4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.		N/A
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.		0
6. Has the operator received confirmation from the appropriate State for the 7Q10 and dilution factor indicated? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, indicate date confirmation received: n/a		
7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

**C. Source water information:**

1. Source water(s) is (check any that apply):			
<input checked="" type="checkbox"/> Contaminated groundwater  Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Contaminated surface water  Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> The receiving water	<input type="checkbox"/> Potable water; if so, indicate municipality or origin:  <input type="checkbox"/> Other; if so, specify:
		<input type="checkbox"/> A surface water other than the receiving water; if so, indicate waterbody:	

2. Source water contaminants: TSS, Copper	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

#### D. Discharge information

1.The discharge(s) is a(n) (check any that apply): <input type="checkbox"/> Existing discharge <input checked="" type="checkbox"/> New discharge <input type="checkbox"/> New source	
Outfall(s): SDO3	Outfall location(s): (Latitude, Longitude) 42.349456, -71.039930
<p>Discharges enter the receiving water(s) via (check any that apply): <input type="checkbox"/> Direct discharge to the receiving water <input checked="" type="checkbox"/> Indirect discharge, if so, specify:</p> <p>Discharge outfall indirectly into Boston Inner Harbor</p> <p><input type="checkbox"/> A private storm sewer system <input checked="" type="checkbox"/> A municipal storm sewer system</p> <p>If the discharge enters the receiving water via a private or municipal storm sewer system:</p> <p>Has notification been provided to the owner of this system? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Has the operator has received permission from the owner to use such system for discharges? (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, if so, explain, with an estimated timeframe for obtaining permission: Submission of documentation to and approval from BWSC in tandem with this NOI</p> <p>Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
Provide the expected start and end dates of discharge(s) (month/year): December 2017 - October 2018	
Indicate if the discharge is expected to occur over a duration of: <input checked="" type="checkbox"/> less than 12 months <input type="checkbox"/> 12 months or more <input type="checkbox"/> is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)	
<input type="checkbox"/> I – Petroleum-Related Site Remediation <input type="checkbox"/> II – Non-Petroleum-Related Site Remediation <input checked="" type="checkbox"/> III – Contaminated Site Dewatering <input type="checkbox"/> IV – Dewatering of Pipelines and Tanks <input type="checkbox"/> V – Aquifer Pump Testing <input type="checkbox"/> VI – Well Development/Rehabilitation <input type="checkbox"/> VII – Collection Structure Dewatering/Remediation <input type="checkbox"/> VIII – Dredge-Related Dewatering	<p>a. If Activity Category I or II: (check all that apply)</p> <p><input type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	
	<p>b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)</p>	
	<table border="1"> <tr> <td data-bbox="970 800 1419 873"><input checked="" type="checkbox"/> G. Sites with Known Contamination</td><td data-bbox="1419 800 2003 873"><input type="checkbox"/> H. Sites with Unknown Contamination</td></tr> </table>	<input checked="" type="checkbox"/> G. Sites with Known Contamination
<input checked="" type="checkbox"/> G. Sites with Known Contamination	<input type="checkbox"/> H. Sites with Unknown Contamination	
<table border="1"> <tr> <td data-bbox="970 873 1419 1409"> <p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p> </td><td data-bbox="1419 873 2003 1409"> <p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p> </td></tr> </table>	<p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	<p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p>
<p>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)</p> <p><input checked="" type="checkbox"/> A. Inorganics</p> <p><input type="checkbox"/> B. Non-Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> C. Halogenated Volatile Organic Compounds</p> <p><input type="checkbox"/> D. Non-Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> E. Halogenated Semi-Volatile Organic Compounds</p> <p><input type="checkbox"/> F. Fuels Parameters</p>	<p>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</p>	



4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia	✓		0					Report mg/L	---
Chloride	✓		1	443000	50000	2520000	2520000	Report µg/l	---
Total Residual Chlorine	✓		1	121,4500C	20	<DL	<DL	0.2 mg/L	
Total Suspended Solids		✓	1	1212540D	5000	14000	14000	30 mg/L	
Antimony	✓		1	1,6020A	4	3.33	3.33	206 µg/L	
Arsenic		✓	1	1,6020A	0.5	6.35	6.35	104 µg/L	
Cadmium	✓		1	1,6020A	2	<DL	<DL	10.2 µg/L	
Chromium III	✓		1	1,6020A	1	1.82	1.82	323 µg/L	
Chromium VI	✓		1	1,6020A	1	4	4	323 µg/L	
Copper		✓	1	1,6020A	1	8.23	8.23	242 µg/L	
Iron		✓	1	19200.7	50	63	63	5,000 µg/L	
Lead		✓	1	1,6020A	0.5	<DL	<DL	160 µg/L	
Mercury	✓		1	3,245.1	0.2	ND	ND	0.739 µg/L	
Nickel	✓		1	1,6020A	0.5	1.92	1.92	1,450 µg/L	
Selenium			0					235.8 µg/L	
Silver			0					35.1 µg/L	
Zinc		✓	1	1,6020A	10	69.8	39.9	420 µg/L	
Cyanide			0					178 mg/L	
B. Non-Halogenated VOCs									
Total BTEX			0					100 µg/L	---
Benzene			0					5.0 µg/L	---
1,4 Dioxane			0					200 µg/L	---
Acetone			0					7.97 mg/L	---
Phenol			0					1,080 µg/L	

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride			0					4.4 µg/L	
1,2 Dichlorobenzene			0					600 µg/L	---
1,3 Dichlorobenzene			0					320 µg/L	---
1,4 Dichlorobenzene			0					5.0 µg/L	---
Total dichlorobenzene			0					763 µg/L in NH	---
1,1 Dichloroethane			0					70 µg/L	---
1,2 Dichloroethane			0					5.0 µg/L	---
1,1 Dichloroethylene			0					3.2 µg/L	---
Ethylene Dibromide			0					0.05 µg/L	---
Methylene Chloride			0					4.6 µg/L	---
1,1,1 Trichloroethane			0					200 µg/L	---
1,1,2 Trichloroethane			0					5.0 µg/L	---
Trichloroethylene			0					5.0 µg/L	---
Tetrachloroethylene			0					5.0 µg/L	
cis-1,2 Dichloroethylene			0					70 µg/L	---
Vinyl Chloride			0					2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates			0					190 µg/L	
Diethylhexyl phthalate			0					101 µg/L	
Total Group I PAHs			0					1.0 µg/L	---
Benzo(a)anthracene			0					As Total PAHs	
Benzo(a)pyrene			0						
Benzo(b)fluoranthene			0						
Benzo(k)fluoranthene			0						
Chrysene			0						
Dibenzo(a,h)anthracene			0						
Indeno(1,2,3-cd)pyrene			0						

[illegible]

### E. Treatment system information

<p>1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)</p> <p> <input type="checkbox"/> Adsorption/Absorption             <input type="checkbox"/> Advanced Oxidation Processes             <input type="checkbox"/> Air Stripping             <input type="checkbox"/> Granulated Activated Carbon (“GAC”)/Liquid Phase Carbon Adsorption  <input type="checkbox"/> Ion Exchange   <input type="checkbox"/> Precipitation/Coagulation/Flocculation   <input checked="" type="checkbox"/> Separation/Filtration   <input type="checkbox"/> Other; if so, specify:         </p>	
<p>2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.</p> <p>Settling tank and bag filters, if necessary, Ion exchange resin filter</p> <p>Identify each major treatment component (check any that apply):</p> <p> <input checked="" type="checkbox"/> Fractionation tanks   <input type="checkbox"/> Equalization tank   <input type="checkbox"/> Oil/water separator   <input type="checkbox"/> Mechanical filter   <input type="checkbox"/> Media filter  <input type="checkbox"/> Chemical feed tank   <input type="checkbox"/> Air stripping unit   <input checked="" type="checkbox"/> Bag filter   <input type="checkbox"/> Other; if so, specify:         </p> <p>Indicate if either of the following will occur (check any that apply):</p> <p> <input type="checkbox"/> Chlorination   <input type="checkbox"/> De-chlorination         </p>	
<p>3. Provide the <b>design flow capacity</b> in gallons per minute (gpm) of the most limiting component.</p> <p>Indicate the most limiting component: Frac Tank</p> <p>Is use of a flow meter feasible? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, if so, provide justification:</p>	50
<p>Provide the proposed maximum effluent flow in gpm.</p>	50
<p>Provide the average effluent flow in gpm.</p>	25
<p>If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:</p>	
<p>4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	

### F. Chemical and additive information

<p>1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)</p> <p><input type="checkbox"/> Algaecides/biocides <input type="checkbox"/> Antifoams <input type="checkbox"/> Coagulants <input type="checkbox"/> Corrosion/scale inhibitors <input type="checkbox"/> Disinfectants <input type="checkbox"/> Flocculants <input type="checkbox"/> Neutralizing agents <input type="checkbox"/> Oxidants <input type="checkbox"/> Oxygen <input type="checkbox"/> scavengers <input type="checkbox"/> pH conditioners <input type="checkbox"/> Bioremedial agents, including microbes <input type="checkbox"/> Chlorine or chemicals containing chlorine <input type="checkbox"/> Other; if so, specify: n/a</p>
<p>2. Provide the following information for each chemical/additive, using attachments, if necessary:</p> <p>a. Product name, chemical formula, and manufacturer of the chemical/additive; b. Purpose or use of the chemical/additive or remedial agent; c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive; d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive; e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).</p>
<p>3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No</p>

### G. Endangered Species Act eligibility determination

<p>1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:</p> <p><input type="checkbox"/> <b>FWS Criterion A:</b> No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the “action area”.</p> <p><input type="checkbox"/> <b>FWS Criterion B:</b> Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are “not likely to adversely affect” listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No; if no, is consultation underway? (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> <b>FWS Criterion C:</b> Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have “no effect” on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) <input type="checkbox"/> the operator <input type="checkbox"/> EPA <input type="checkbox"/> Other; if so, specify:</p>
---

☒ **NMFS Criterion:** A determination made by EPA is affirmed by the operator that the discharges and related activities will have “no effect” or are “not likely to adversely affect” any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ☒ Yes ☐ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ☒ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ☒ No; if yes, attach.

#### H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

- ☒ **Criterion A:** No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.
- ☐ **Criterion B:** Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.
- ☐ **Criterion C:** Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ☒ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ☒ No

#### I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

n/a

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ☒ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☒ Yes ☐ No



**J. Certification requirement**

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

A BMPP meeting the requirements of this general permit will be developed and implemented prior to  
BMPP certification statement: the initiation of discharge.

Notification provided to the appropriate State, including a copy of this NOI, if required.

Check one: Yes ☒ No ☐

Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.

Check one: Yes ☒ No ☐

Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.  
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.

Check one: Yes ☒ No ☐ NA ☐  
Submission of documentation to and approval from BWSC in tandem with this NOI  
Check one: Yes ☐ No ☒ NA ☐

Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit  
☐ Other; if so, specify:

Check one: Yes ☒ No ☐ NA ☐

Signature:



Date: 11/27/17

Print Name and Title: Nicholas S. Morel - Sr. Project Manager



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

## DEWATERING DISCHARGE PERMIT APPLICATION

### OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: Suffolk Construction Co. Address: 65 Allerton Street - Boston, MA 02219

Phone Number: (617) 517-5228 Fax number: \_\_\_\_\_

Contact person name: Nicholas Morel Title: Project Manager

Cell number: \_\_\_\_\_ Email address: nmorel@suffolk.com

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

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

Owner of property being dewatered: The Drew Company

Owner's mailing address: 2 Seaport Lane - Boston, MA 02210 Phone number: (617) 312-6800

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

Street number and name: 505 Congress Street Neighborhood Seaport

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

Describe Proposed Pre-Treatment System(s): Sediment Settling Tank and Bag Filters

BWSC Outfall No. SDO 03 Receiving Waters Boston Inner Harbor

### Temporary Discharges (Provide Anticipated Dates of Discharge): From December, 2017 To October, 2018

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Groundwater Remediation   | <input type="checkbox"/> Tank Removal/Installation | <input checked="" type="checkbox"/> Foundation Excavation |
| <input type="checkbox"/> Utility/Manhole Pumping   | <input type="checkbox"/> Test Pipe                 | <input type="checkbox"/> Trench Excavation                |
| <input type="checkbox"/> Accumulated Surface Water | <input type="checkbox"/> Hydrogeologic Testing     | <input type="checkbox"/> Other _____                      |

### Permanent Discharges

- |   |   |
|---|---|
| <input type="checkbox"/> Foundation Drainage                | <input type="checkbox"/> Crawl Space/Footing Drain          |
| <input type="checkbox"/> Accumulated Surface Water          | <input type="checkbox"/> Non-contact/Uncontaminated Cooling |
| <input type="checkbox"/> Non-contact/Uncontaminated Process | <input type="checkbox"/> 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: 11/27/17



**APPENDIX C:**

**DEP PRIORITY RESOURCES MAP**

**DILUTION FACTOR AND WQBEL CALCULATIONS**

**ADDITIONAL NOI SUPPORT INFORMATION**

# MassDEP - Bureau of Waste Site Cleanup

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

### Site Information:

WATERSIDE PLACE II  
505 CONGRESS STREET BOSTON, MA

### NAD83 UTM Meters:

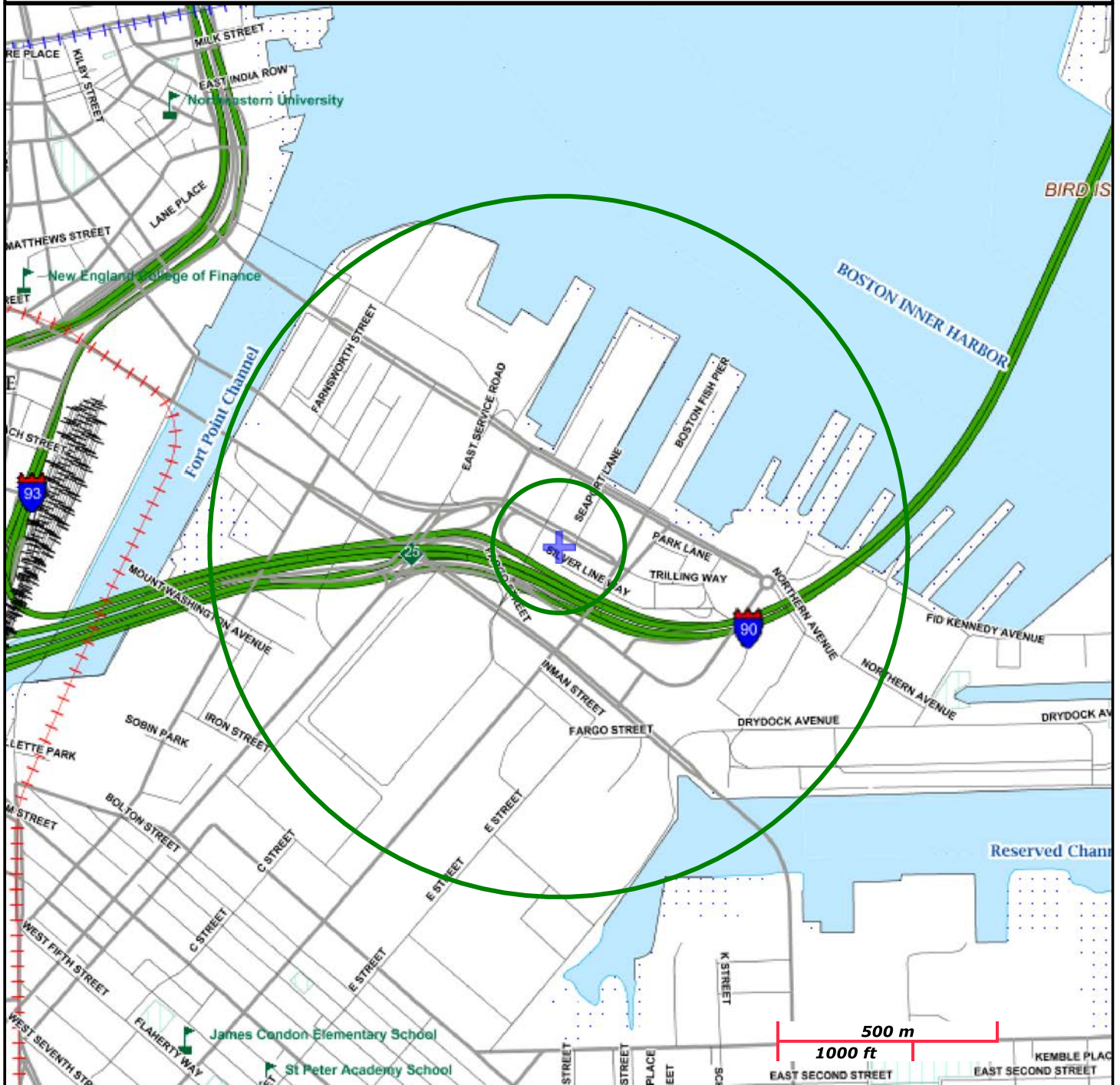
4690481mN, 331805mE (Zone: 19)  
September 20, 2017

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

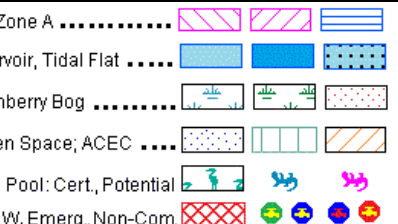
Hydrography: Open Water, PWS Reservoir, Tidal Flat

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.





## 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:

April 20, 2017

Consultation Code: 05E1NE00-2017-SLI-1377

Event Code: 05E1NE00-2017-E-02705

Project Name: Waterside Place 2

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: 05E1NE00-2017-SLI-1377

Event Code: 05E1NE00-2017-E-02705

Project Name: Waterside Place 2

Project Type: DREDGE / EXCAVATION

Project Description: Dewatering for new construction

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/42.34838336508322N71.0419985991008W>



Counties: Suffolk, MA

## Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on your 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. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

---

## Birds

NAME	STATUS
Red Knot ( <i>Calidris canutus rufa</i> )	Threatened
No critical habitat has been designated for this species.	
Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>	

## Critical habitats

There are no critical habitats within your project area.

# Massachusetts Cultural Resource Information System

## MACRIS

### MACRIS Search Results

Search Criteria: Town(s): Boston; Street No: 505; Street Name: Congress St; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
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## MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

June 2009

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### Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

---

#### **Bourne Back River**

(1,850 acres, 1989) Bourne

**Canoe River Aquifer and Associated Areas** (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

#### **Cedar Swamp**

(1,650 acres, 1975) Hopkinton and Westborough

#### **Central Nashua River Valley**

(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

#### **Cranberry Brook Watershed**

(1,050 acres, 1983) Braintree and Holbrook

#### **Ellisville Harbor**

(600 acres, 1980) Plymouth

#### **Fowl Meadow and Ponkapoag Bog**

(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

#### **Golden Hills**

(500 acres, 1987) Melrose, Saugus, and Wakefield

#### **Great Marsh (originally designated as Parker River/Essex Bay)**

(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

#### **Herring River Watershed**

(4,450 acres, 1991) Bourne and Plymouth

#### **Hinsdale Flats Watershed**

(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

#### **Hockomock Swamp**

(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

#### **Inner Cape Cod Bay**

(2,600 acres, 1985) Brewster, Eastham, and Orleans

#### **Kampoosa Bog Drainage Basin**

(1,350 acres, 1995) Lee and Stockbridge

#### **Karner Brook Watershed**

(7,000 acres, 1992) Egremont and Mount Washington

#### **Miscoe, Warren, and Whitehall Watersheds**

(8,700 acres, 2000) Grafton, Hopkinton, and Upton

#### **Neponset River Estuary**

(1,300 acres, 1995) Boston, Milton, and Quincy

#### **Petapawag**

(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

#### **Pleasant Bay**

(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

#### **Pocasset River**

(160 acres, 1980) Bourne

#### **Rumney Marshes**

(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

#### **Sandy Neck Barrier Beach System**

(9,130 acres, 1978) Barnstable and Sandwich

#### **Schenob Brook Drainage Basin**

(13,750 acres, 1990) Mount Washington and Sheffield

#### **Squannassit**

(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

#### **Three Mile River Watershed**

(14,280 acres, 2008) Dighton, Norton, Taunton

#### **Upper Housatonic River**

(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

#### **Waquoit Bay**

(2,580 acres, 1979) Falmouth and Mashpee

#### **Weir River**

(950 acres, 1986) Cohasset, Hingham, and Hull

#### **Wellfleet Harbor**

(12,480 acres, 1989) Eastham, Truro, and Wellfleet

#### **Weymouth Back River**

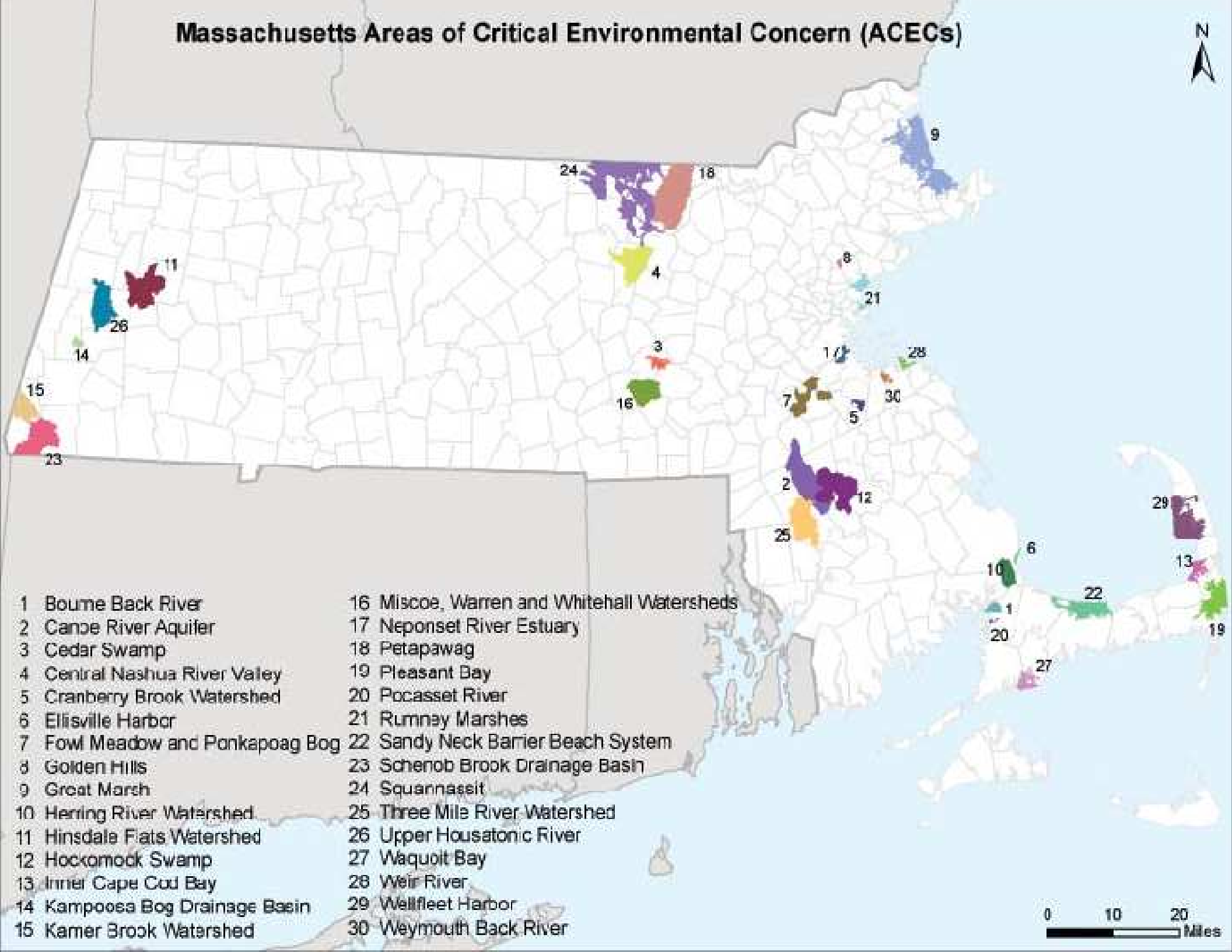
(800 acres, 1982) Hingham and Weymouth

## Towns with ACECs within their Boundaries

June 2009

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay		Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Truro	Wellfleet Harbor
		Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
	Squannassit	Upton	Miscoe-Warren-Whitehall Watersheds
Harvard	Central Nashua River Valley		
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
		Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River		
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

# Massachusetts Areas of Critical Environmental Concern (ACECs)



- |                                 |  |
|---------------------------------|--|
| 1 Bourns Back River             | 16 Miscoe, Warren and Whitehall Watersheds |
| 2 Canoe River Aquifer           | 17 Neponset River Estuary                  |
| 3 Cedar Swamp                   | 18 Petapawag                               |
| 4 Central Nashua River Valley   | 19 Pleasant Bay                            |
| 5 Cranberry Brook Watershed     | 20 Pocasset River                          |
| 6 Ellisville Harbor             | 21 Rummey Marshes                          |
| 7 Fowl Meadow and Ponkapoag Bog | 22 Sandy Neck Barrier Beach System         |
| 8 Golden Hills                  | 23 Schenob Brook Drainage Basin            |
| 9 Great Marsh                   | 24 Squannassit                             |
| 10 Herring River Watershed      | 25 Three Mile River Watershed              |
| 11 Hinsdale Flats Watershed     | 26 Upper Housatonic River                  |
| 12 Hockomock Swamp              | 27 Waquoit Bay                             |
| 13 Inner Cape Cod Bay           | 28 Weir River                              |
| 14 Kampooosa Bog Drainage Basin | 29 Wellfleet Harbor                        |
| 15 Kame Brook Watershed         | 30 Weymouth Back River                     |

0 10 20 Miles

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Raynham and Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Glocester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, and Wareham
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

- Eastern cougar and gray wolf are considered extirpated in Massachusetts.
- Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
- Critical habitat for the Northern Red-bellied cooter is present in Plymouth County.

7/31/2008





## **APPENDIX D:**

### **LABORATORY ANALYTIC DATA - GROUNDWATER**



## ANALYTICAL REPORT

Lab Number:	L1711749
Client:	McPhail Associates 2269 Massachusetts Avenue Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	WATERSIDE PLACE 2
Project Number:	5996.9.00
Report Date:	04/19/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1711749-01	M 108 (OW)	GROUNDWATER	SEAPORT	04/13/17 13:00	04/13/17

**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

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

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

### Case Narrative (continued)

#### Report Submission

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

#### Chlorine, Total Residual

WG994111: A laboratory duplicate and matrix spike could not be performed due to insufficient sample volume available for analysis.

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

Authorized Signature:



Amita Naik

Title: Technical Director/Representative

Date: 04/19/17

## METALS

Project Name: WATERSIDE PLACE 2

Lab Number: L1711749

Project Number: 5996.9.00

Report Date: 04/19/17

## SAMPLE RESULTS

Lab ID: L1711749-01

Date Collected: 04/13/17 13:00

Client ID: M 108 (OW)

Date Received: 04/13/17

Sample Location: SEAPORT

Field Prep: Not Specified

Matrix: Groundwater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Antimony, Total	0.00333	J	mg/l	0.00400	0.00042	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Arsenic, Total	0.00635		mg/l	0.00100	0.00016	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Cadmium, Total	ND		mg/l	0.00100	0.00005	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Chromium, Total	0.00182		mg/l	0.00100	0.00017	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Copper, Total	0.00823		mg/l	0.00100	0.00038	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Iron, Total	0.063		mg/l	0.050	0.009	1	04/17/17 10:10	04/18/17 20:37	EPA 3005A	19,200.7	AB
Lead, Total	ND		mg/l	0.00100	0.00034	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/18/17 16:35	04/18/17 23:24	EPA 245.1	3,245.1	EA
Nickel, Total	0.00192	J	mg/l	0.00200	0.00055	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/17/17 10:10	04/18/17 13:39	EPA 3005A	3,200.8	BV



Project Name: WATERSIDE PLACE 2

Lab Number: L1711749

Project Number: 5996.9.00

Report Date: 04/19/17

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG994826-1										
Antimony, Total	ND		mg/l	0.00400	0.00042	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Arsenic, Total	ND		mg/l	0.00100	0.00016	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Cadmium, Total	ND		mg/l	0.00100	0.00005	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Chromium, Total	0.00020	J	mg/l	0.00100	0.00017	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Copper, Total	ND		mg/l	0.00100	0.00038	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Lead, Total	ND		mg/l	0.00050	0.00034	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Nickel, Total	ND		mg/l	0.00200	0.00055	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV
Zinc, Total	ND		mg/l	0.01000	0.00341	1	04/17/17 10:10	04/18/17 13:33	3,200.8	BV

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG994828-1										
Iron, Total	ND		mg/l	0.050	0.009	1	04/17/17 10:10	04/18/17 20:28	19,200.7	AB

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG995270-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	04/18/17 16:35	04/18/17 22:35	3,245.1	EA

### Prep Information

Digestion Method: EPA 245.1



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** WATERSIDE PLACE 2

**Project Number:** 5996.9.00

**Lab Number:** L1711749

**Report Date:** 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG994826-2								
Antimony, Total	94		-		85-115	-		
Arsenic, Total	101		-		85-115	-		
Cadmium, Total	105		-		85-115	-		
Chromium, Total	103		-		85-115	-		
Copper, Total	104		-		85-115	-		
Lead, Total	100		-		85-115	-		
Nickel, Total	96		-		85-115	-		
Zinc, Total	98		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG994828-2								
Iron, Total	99		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG995270-2								
Mercury, Total	102		-		85-115	-		

# Matrix Spike Analysis

## Batch Quality Control

Project Name: WATERSIDE PLACE 2

Project Number: 5996.9.00

Lab Number: L1711749

Report Date: 04/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG994826-3 QC Sample: L1711749-01 Client ID: M 108 (OW)												
Antimony, Total	0.00333J	0.5	0.5567	111		-	-		70-130	-		20
Arsenic, Total	0.00635	0.12	0.1407	112		-	-		70-130	-		20
Cadmium, Total	ND	0.051	0.05667	111		-	-		70-130	-		20
Chromium, Total	0.00182	0.2	0.2160	107		-	-		70-130	-		20
Copper, Total	0.00823	0.25	0.2859	111		-	-		70-130	-		20
Lead, Total	ND	0.51	0.5350	105		-	-		70-130	-		20
Nickel, Total	0.00192J	0.5	0.5057	101		-	-		70-130	-		20
Zinc, Total	ND	0.5	0.5280	106		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG994828-3 QC Sample: L1711749-01 Client ID: M 108 (OW)												
Iron, Total	0.063	1	1.04	98		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG995270-3 QC Sample: L1711545-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00492	98		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG995270-5 QC Sample: L1711863-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00496	99		-	-		70-130	-		20

# **Lab Duplicate Analysis** Batch Quality Control

**Project Name:** WATERSIDE PLACE 2

**Project Number:** 5996.9.00

**Lab Number:** L1711749

**Report Date:** 04/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG994826-4 QC Sample: L1711749-01 Client ID: M 108 (OW)						
Antimony, Total	0.00333J	0.00241J	mg/l	NC		20
Arsenic, Total	0.00635	0.00686	mg/l	8		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00182	0.00189	mg/l	4		20
Copper, Total	0.00823	0.00845	mg/l	3		20
Lead, Total	ND	ND	mg/l	NC		20
Nickel, Total	0.00192J	0.00192J	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG994828-4 QC Sample: L1711749-01 Client ID: M 108 (OW)						
Iron, Total	0.063	0.066	mg/l	5		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG995270-4 QC Sample: L1711545-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG995270-6 QC Sample: L1711863-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

# **INORGANICS & MISCELLANEOUS**

Project Name: WATERSIDE PLACE 2

Project Number: 5996.9.00

Lab Number: L1711749

Report Date: 04/19/17

## SAMPLE RESULTS

Lab ID: L1711749-01

Client ID: M 108 (OW)

Sample Location: SEAPORT

Matrix: Groundwater

Date Collected: 04/13/17 13:00

Date Received: 04/13/17

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	14.		mg/l	5.0	NA	1	-	04/14/17 13:40	121,2540D	DW
Chlorine, Total Residual	ND		mg/l	0.02	0.01	1	-	04/13/17 22:25	121,4500CL-D	AS
pH (H)	8.4		SU	-	NA	1	-	04/13/17 21:55	1,9040C	AS
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	04/14/17 02:44	04/14/17 03:05	1,7196A	KA
Anions by Ion Chromatography - Westborough Lab										
Chloride	2520		mg/l	50.0	5.41	100	-	04/15/17 00:06	44,300.0	AU



Project Name: WATERSIDE PLACE 2

Lab Number: L1711749

Project Number: 5996.9.00

Report Date: 04/19/17

### Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG994111-1										
Chlorine, Total Residual	ND		mg/l	0.02	0.01	1	-	04/13/17 22:25	121,4500CL-D	AS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG994149-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	04/14/17 02:44	04/14/17 03:03	1,7196A	KA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG994194-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	04/14/17 13:40	121,2540D	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG994509-1										
Chloride	ND		mg/l	0.500	0.054	1	-	04/14/17 20:30	44,300.0	AU

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** WATERSIDE PLACE 2

**Project Number:** 5996.9.00

**Lab Number:** L1711749

**Report Date:** 04/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG994111-2								
Chlorine, Total Residual	93		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG994112-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG994149-2								
Chromium, Hexavalent	102		-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG994509-2								
Chloride	105		-		90-110	-		

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** WATERSIDE PLACE 2

**Lab Number:** L1711749

**Project Number:** 5996.9.00

**Report Date:** 04/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01    QC Batch ID: WG994149-4    QC Sample: L1711749-01    Client ID: M 108 (OW)												
Chromium, Hexavalent	0.004J	0.1	0.109	109		-	-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01    QC Batch ID: WG994509-3    QC Sample: L1711537-01    Client ID: MS Sample												
Chloride	7.42	4	11.4	100		-	-		90-110	-		18



**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1711749  
**Report Date:** 04/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG994112-2 QC Sample: L1711749-01 Client ID: M 108 (OW)						
pH (H)	8.4	8.3	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG994149-3 QC Sample: L1711749-01 Client ID: M 108 (OW)						
Chromium, Hexavalent	0.004J	0.003J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG994194-2 QC Sample: L1711424-01 Client ID: DUP Sample						
Solids, Total Suspended	62.	68	mg/l	9		29
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG994509-4 QC Sample: L1711537-01 Client ID: DUP Sample						
Chloride	7.42	7.42	mg/l	0		18

**Project Name:** WATERSIDE PLACE 2**Project Number:** 5996.9.00**Lab Number:** L1711749**Report Date:** 04/19/17**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711749-01A	Plastic 950ml unpreserved	A	7	4.1	Y	Absent	TSS-2540(7)
L1711749-01B	Plastic 500ml unpreserved	A	7	4.1	Y	Absent	HEXCR-7196(1),PH-9040(1),TRC-4500(1)
L1711749-01C	Plastic 250ml unpreserved	A	7	4.1	Y	Absent	CL-300(28)
L1711749-01D	Plastic 250ml HNO3 preserved	A	<2	4.1	Y	Absent	CD-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),FE-UI(180),AS-2008T(180),HG-U(28),CR-2008T(180),PB-2008T(180),SB-2008T(180)
L1711749-01E	Plastic 250ml HNO3 preserved	A	<2	4.1	Y	Absent	CD-2008T(180),NI-2008T(180),ZN-2008T(180),CU-2008T(180),FE-UI(180),AS-2008T(180),HG-U(28),CR-2008T(180),PB-2008T(180),SB-2008T(180)

\*Values in parentheses indicate holding time in days

**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

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

### Terms

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

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** WATERSIDE PLACE 2  
**Project Number:** 5996.9.00

**Lab Number:** L1711749  
**Report Date:** 04/19/17

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

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

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



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

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## Certification Information

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

**Westborough Facility****EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

**Westborough Facility:****Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**


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



## PAGE \_\_\_\_\_ OF \_\_\_\_\_

4/13/17

ALPHA Job #: 21711749

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

Project Name: Waterside Place 2

Project Location: Senporet

Project #: 5996.9.00

Project Manager: Brian Fong-Murdoch

ALPHA Quote #:

☒ Standard      ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Client: McPhail Assoc.  
Address: 2269 MASS AVE

Phone: 617 349 7351

Email: bfm@mcpheildge.com

Additional Project Information:

<input type="checkbox"/> Same as Client info	PO #:
--	-------

☒ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods  
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)  
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)  
☒ Yes ☐ No NPDES RGP  
☒ Other State /Fed Program \_\_\_\_\_ Criteria

ANALYSIS		SAMPLE INFO
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2		Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH		Preservation <input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15		
EPH: <input type="checkbox"/> RCRA45 <input type="checkbox"/> RCRA8		
VPH: <input type="checkbox"/> Ranges & Targets <input checked="" type="checkbox"/> PPT13 ?		
<input type="checkbox"/> PCB <input type="checkbox"/> PEST		
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
PH	TRC	
TSS		
		Sample Comments

TOTAL # BOTTLES

Sample ID

Collection	
Date	T

Sample Matrix

Sampler

11749-01	M 108 (GW)	4/13/17	13:00	GW	NH
----------	------------	---------	-------	----	----

Sample Comments									
	X				X	X	X		Sb, As, Cd, Tot Cr, Cu, Pb, Fe, Hg, Ni, Zn

P= Plastic  
A= Amber glass  
V= Vial  
G= Glass  
B= Bacteria cup  
C= Cube  
O= Other  
E= Encore  
D= BOD Bottle

A= None  
B= HCl  
C= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
I= Ascorbic Acid  
J = NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions.  
(See reverse side.)

FORM NO: 01-01 (rev. 12-Mar-2012)



**APPENDIX E:**  
**LABORATORY ANALYTICAL DATA – SURFACE WATER**





## ANALYTICAL REPORT

Lab Number:	L1715446
Client:	McPhail Associates 2269 Massachusetts Avenue Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	399 CONGRESS ST
Project Number:	4540.2.D7
Report Date:	05/16/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1715446-01	BOSTON INNER HARBOR	WATER	399 CONGRESS	05/11/17 13:30	05/11/17

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

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

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17


**Case Narrative (continued)**

Metals

L1715446-01, WG1002864-4: The internal standard (IS) response(s) for Arsenic, Copper, Lead, and Zinc were outside the acceptance criteria due to sample matrix interference; however, the criteria were achieved upon re-analysis on dilution. The results of the re-analysis are reported.

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

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 05/16/17

## METALS

Project Name: 399 CONGRESS ST

Lab Number: L1715446

Project Number: 4540.2.D7

Report Date: 05/16/17

## SAMPLE RESULTS

Lab ID: L1715446-01

Date Collected: 05/11/17 13:30

Client ID: BOSTON INNER HARBOR

Date Received: 05/11/17

Sample Location: 399 CONGRESS

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.01000	--	10	05/12/17 11:15	05/13/17 12:44	EPA 3005A	3,200.8	BV
Copper, Total	ND		mg/l	0.01000	--	10	05/12/17 11:15	05/13/17 12:44	EPA 3005A	3,200.8	BV
Iron, Total	0.136		mg/l	0.050	--	1	05/12/17 11:15	05/12/17 17:57	EPA 3005A	19,200.7	AB
Lead, Total	ND		mg/l	0.01000	--	10	05/12/17 11:15	05/13/17 12:44	EPA 3005A	3,200.8	BV
Zinc, Total	ND		mg/l	0.1000	--	10	05/12/17 11:15	05/13/17 12:44	EPA 3005A	3,200.8	BV



**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1002863-1										
Iron, Total	ND		mg/l	0.050	--	1	05/12/17 11:15	05/12/17 17:33	19,200.7	AB

### Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1002864-1										
Arsenic, Total	ND		mg/l	0.00100	--	1	05/12/17 11:15	05/13/17 10:13	3,200.8	BV
Copper, Total	ND		mg/l	0.00100	--	1	05/12/17 11:15	05/13/17 10:13	3,200.8	BV
Lead, Total	ND		mg/l	0.00100	--	1	05/12/17 11:15	05/13/17 10:13	3,200.8	BV
Zinc, Total	ND		mg/l	0.01000	--	1	05/12/17 11:15	05/13/17 10:13	3,200.8	BV

### Prep Information

Digestion Method: EPA 3005A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 399 CONGRESS ST

**Project Number:** 4540.2.D7

**Lab Number:** L1715446

**Report Date:** 05/16/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1002863-2								
Iron, Total	105		-		85-115	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1002864-2								
Arsenic, Total	95		-		85-115	-		
Copper, Total	101		-		85-115	-		
Lead, Total	107		-		85-115	-		
Zinc, Total	99		-		85-115	-		



# Matrix Spike Analysis

## Batch Quality Control

Project Name: 399 CONGRESS ST

Project Number: 4540.2.D7

Lab Number: L1715446

Report Date: 05/16/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002863-3 QC Sample: L1715446-01 Client ID: BOSTON INNER HARBOR												
Iron, Total	0.136	1	1.08	94		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002863-7 QC Sample: L1715328-01 Client ID: MS Sample												
Iron, Total	17.0	1	17.0	0	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002864-3 QC Sample: L1715446-01 Client ID: BOSTON INNER HARBOR												
Arsenic, Total	ND	0.12	0.1326	110		-	-		70-130	-		20
Copper, Total	ND	0.25	0.2733	109		-	-		70-130	-		20
Lead, Total	ND	0.51	0.5631	110		-	-		70-130	-		20
Zinc, Total	ND	0.5	0.5660	113		-	-		70-130	-		20

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1715446  
**Report Date:** 05/16/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002863-4 QC Sample: L1715446-01 Client ID: BOSTON INNER HARBOR						
Iron, Total	0.136	0.124	mg/l	9		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002863-8 QC Sample: L1715328-01 Client ID: DUP Sample						
Iron, Total	17.0	17.4	mg/l	2		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1002864-4 QC Sample: L1715446-01 Client ID: BOSTON INNER HARBOR						
Arsenic, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Lead, Total	ND	ND	mg/l	NC		20
Zinc, Total	ND	ND	mg/l	NC		20

# **INORGANICS & MISCELLANEOUS**

Project Name: 399 CONGRESS ST

Project Number: 4540.2.D7

Lab Number: L1715446

Report Date: 05/16/17

## SAMPLE RESULTS

Lab ID: L1715446-01  
 Client ID: BOSTON INNER HARBOR  
 Sample Location: 399 CONGRESS  
 Matrix: Water

Date Collected: 05/11/17 13:30  
 Date Received: 05/11/17  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
SALINITY	20		SU	2.0	--	1	-	05/15/17 16:30	121,2520B	AS
Nitrogen, Ammonia	0.095		mg/l	0.075	--	1	05/12/17 14:38	05/12/17 21:45	121,4500NH3-BH	AT



Project Name: 399 CONGRESS ST

Lab Number: L1715446

Project Number: 4540.2.D7

Report Date: 05/16/17

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1002792-1										
Nitrogen, Ammonia	ND		mg/l	0.075	--	1	05/12/17 14:38	05/12/17 21:23	121,4500NH3-BH	AT

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 399 CONGRESS ST

**Project Number:** 4540.2.D7

**Lab Number:** L1715446

**Report Date:** 05/16/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1002792-2								
Nitrogen, Ammonia	98		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1003620-1								
SALINITY	96		-			-		

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** 399 CONGRESS ST

**Lab Number:** L1715446

**Project Number:** 4540.2.D7

**Report Date:** 05/16/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002792-4 QC Sample: L1715071-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.076	4	3.92	96		-	-		80-120	-		20

## Lab Duplicate Analysis

Batch Quality Control

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1002792-3 QC Sample: L1715071-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.076	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1003620-2 QC Sample: L1715446-01 Client ID: BOSTON INNER HARBOR						
SALINITY	20	22	SU	10		



**Project Name:** 399 CONGRESS ST**Project Number:** 4540.2.D7**Lab Number:** L1715446**Report Date:** 05/16/17**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1715446-01A	Plastic 250ml HNO3 preserved	A	<2	5.3	Y	Absent	ZN-2008T(180),CU-2008T(180),FE-UI(180),AS-2008T(180),PB-2008T(180)
L1715446-01B	Plastic 250ml H2SO4 preserved	A	<2	5.3	Y	Absent	NH3-4500(28)
L1715446-01C	Amber 500ml unpreserved	A	7	5.3	Y	Absent	SALINITY(28)
L1715446-01D	Vial MeOH preserved	A	N/A	5.3	Y	Absent	ARCHIVE(0)
L1715446-01E	Vial water preserved	A	N/A	5.3	Y	Absent	ARCHIVE(0)
L1715446-01F	Vial water preserved	A	N/A	5.3	Y	Absent	ARCHIVE(0)

\*Values in parentheses indicate holding time in days

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

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

### Terms

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

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

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

**Report Format:** Data Usability Report



**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

#### Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

**Project Name:** 399 CONGRESS ST  
**Project Number:** 4540.2.D7

**Lab Number:** L1715446  
**Report Date:** 05/16/17

## REFERENCES

- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

## LIMITATION OF LIABILITIES

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

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



**Alpha Analytical, Inc.**

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

**Certification Information**

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

**Westborough Facility****EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

**Westborough Facility:****Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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



## PAGE \_\_\_\_\_ OF \_\_\_\_\_

$\therefore 5 \text{ ml}$

4715946

### Billing Information

PO #:

3 day

## Criteria

TOTAL # BOTTLES

☐ Lab to do

FORM NO. 01-01 (rev. 12-Mar-2012)

## PAGE OF

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-822-9300

Project Name: 399 Congress St

Project Location: 399 (Congress)

Project #: 4540 2. D7

Project Manager: WJB

ALPHA Quote #:

## Turn-Around Time

☐ Standard ☒ ~~RUSH~~ (only confirmed if pre-approved!)

Date Due: 3 day

Date Rec'd in Lab: 5/11/17

ALPHA Job #: 4715946

## Report Information - Data Deliverables

☒ ADEX ☐ EMAIL☐ Same as Client info PO #:

## Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods
 ☐ Yes ☒ No CT RCP Analytical Methods  
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)  
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)  
☒ Yes ☐ No NPDES RGP  
☐ Other State /Fed Program

## Client Information

Client: McPhail Associates, LLC

Address: 2269 Massachusetts Avenue,  
Cambridge, MA 02140

Phone: 617-868-1420

Email:

Additional Project Information:

ANALYSIS		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260	<input type="checkbox"/> 624 <input type="checkbox"/> 524.2	Filtration	
SVOC: <input type="checkbox"/> ABN	<input type="checkbox"/> PAH	<input type="checkbox"/> Field	
METALS: <input type="checkbox"/> MCP 13	<input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	<input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> RCRA5	<input type="checkbox"/> RCRA8 <input type="checkbox"/> PP13	Preservation	
EPH: <input type="checkbox"/> Ranges & Targets	<input type="checkbox"/> Ranges Only	<input type="checkbox"/> Lab to do	
VPH: <input type="checkbox"/> Ranges & Targets	<input type="checkbox"/> Ranges Only		
<input type="checkbox"/> PCB	<input type="checkbox"/> PEST		
TPH: <input type="checkbox"/> Quant Only	<input type="checkbox"/> Fingerprint		
Total Metals - RGP 13			
Ammonia			
Salinity			
<del>PAH</del>			
<del>TPH</del>			
Sample Comments			

	TOTAL #	BOTTLES
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
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18	1	1
19	1	1
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85	1	1
86	1	1
87	1	1
88	1	1
89	1	1
90	1	1
91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

## SAMPLE INFO

### Filtration

☐ Field  
☐ Lab to do

### Preservation

☐ Lab to do

### Sample Comments

[illegible]

### Container Type

P= Plastic  
A= Amber glass  
V= Vial  
G= Glass  
B= Bacteria cup  
C= Cube  
O= Other  
E= Encore  
D= BOD Bottle

**Preservative**

A= None  
B= HCl  
C= HNO<sub>3</sub>  
D= H<sub>2</sub>SO<sub>4</sub>  
E= NaOH  
F= MeOH  
G= NaHSO<sub>4</sub>  
H= Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
I= Ascorbic Acid  
J= NH<sub>4</sub>Cl  
K= Zn Acetate  
O= Other

Container Type

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

All samples submitted are subject to Alpha's Terms and Conditions.  
See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)