

Transmitted via US Mail and e-mail to generalpermit.dewatering@epa.gov

July 29, 2016

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

**Re: Notice of Intent for Dewatering General Permit
Amtrak Southampton Street Maintenance Facility, Boston, Massachusetts**

To Whom It May Concern:

AMEC Massachusetts, Inc. (AMEC) is submitting the attached Notice of Intent (NOI) and applicable supporting documentation on behalf of the National Railroad Passenger Corporation (Amtrak) for dewatering activities associated with a proposed project to remove two underground storage tanks (USTs) at the Amtrak Southampton Street Maintenance Facility in Boston, Massachusetts (the Site). The NOI is being submitted to request authorization under the National Pollutant Discharge Elimination System (NPDES) Dewatering General Permit (DGP) in Massachusetts (MAG70000) to allow the discharge of pumped groundwater associated with the construction activities. The Project and related permit information are discussed below.

Proposed Project and Dewatering Activities

The proposed project will consist of the removal of two USTs located adjacent to the on-site Wastewater Treatment Plan (WWTP). A Site Plan (Figure C-101) is provided in **Attachment A** to illustrate the location of the tanks and the area that requires dewatering. It is anticipated that dewatering will be necessary based on the depth of the bottom of the tanks at approximately 12.7 feet below ground surface (bgs) and the measured depth to groundwater of approximately 9.12 feet bgs. The project will maintain existing ground surface elevations and will be completed in accordance with the Underground Storage Tank Systems regulations at 310 CMR 80.00.

Groundwater and Surface Water Monitoring Results

A representative groundwater sample was collected from an existing sump that was used for dewatering purposes when the USTs were installed in 1998 and analysed for metals, pH, and chloride. An unfiltered water sample was also collected from a nearby stormwater catch basin CB-14, which is directly connected to the Dorchester Brook Culvert, and analysed for hardness. The culvert flows through the Site and eventually discharges to the Fort Point Channel and Boston Inner Harbor. It is under tidal influence and receives stormwater and combined sanitary sewer flows from other entities within the contributing watershed. The culvert terminates at the Boston Water and Sewer Commission (BWSC) combined sewer outfall # BOS 070. The named receiving water for the dewatering discharge is the Boston Inner Harbor.

The laboratory analytical results indicate that several metals were present in the groundwater sample, with the result for iron exceeding the effluent limit in Appendix III of the NPDES Remedial General Permit. It is important to note that cadmium was not detected, but the reporting limit exceeds the permit limit. A copy of the laboratory report is provided in **Attachment B** and a summary of the results is presented below.

Table 1. Laboratory Results

Groundwater Sump Sample

Total Metals	Result (ug/l)	Effluent Limit*	
		Freshwater	Saltwater
Antimony	ND	5.6	5.6
Arsenic	0.9	10	36
Cadmium	(0.5) ¹	0.2	8.9
Chromium III (trivalent)	ND	48.8	100
Chromium VI (hexavalent)	ND	11.4	50.3
Copper	ND	5.2	3.7
Iron	14,000	1,000	1,000
Mercury	ND	0.9	1.1
Nickel	2.0	29	8.2
Silver	ND	1.2	2.2
Zinc	ND	66.6	85.6
Lead	0.9	1.3	8.5
Inorganic Chemistry		Effluent Limit	
pH	6.9 SU	6.5 - 8.0	6.5 - 8.0
Chloride	2,940 mg/L	monitor only	

Surface Water Sample

	Result (mg/l)	Effluent Limit
CB-14 to Dorchester Brook Culvert	3,500	N/A

Notes:

*Total metals limits are from Appendix III of the NPDES Remedial General Permit.

ND = not detected

1. Cadmium was not detected, but the reporting limit exceeds the effluent limit.

Highlighted cells exceed the effluent limit.

Since the Dorchester Brook Culvert is tidally influenced and discharges to the Fort Point Channel, data are not available to calculate a metals dilution factor to meet an effluent limit. However, it should be noted that the duration of the proposed dewatering activity will be one week or less. AMEC understands that the US EPA will review this information and provide guidance on the dilution factor and consider the duration of the dewatering discharge to meet the requirements of the DGP.

Notice of Intent Form

Amtrak's NOI form for permit coverage under the NPDES DGP is provided in **Attachment C**. Additional supporting documentation related to endangered species and historic properties is provided in **Attachments D and E** and discussed below.

Endangered Species Permit Eligibility

Endangered species permit eligibility requirements were previously evaluated for the Multi-Sector General Permit (MSGP) for Stormwater Discharges when Amtrak renewed their coverage under the MSGP (MAR05CY12) in September 2015. At that time, the “Red Knot” (*Calidris cantus rufa*) was identified as a threatened species in the vicinity of the Southampton Street Maintenance Facility based on the report from the U.S. Fish and Wildlife Service on-line database (<https://ecos.fws.gov/ipac/>). This information was provided in the Official Species List for Consultation Code: 05E1NE00-2015-SLI-2053 which is included in **Attachment D**. In addition, based on a review of endangered species maps from the National Marine Fisheries Service (NMFS) at the time of the MSGP renewal, the following species were identified as likely being present in the vicinity of the Southampton Street Maintenance Facility: Humpback Whales, Right Whales, Fin Whales, the Atlantic Sturgeon, Atlantic Salmon, Loggerhead Sea Turtle, Kemp’s Ridley Sea Turtle, and Leatherback and Green Sea Turtles. There are no critical habitats with the “Action Area”.

Based on the above information, it was determined that the Southampton Street Maintenance Facility meets the MSGP eligibility Criterion C under the MSGP: federally listed threatened or endangered species are likely to occur near the facility’s Action Area and the industrial activity’s discharges and discharge-related activities are not likely to adversely affect the listed species. As a result, Amtrak was required to submit the criterion selection worksheet in Part E.4, including completion of the Criterion C Eligibility Form, to EPA at least 30 days prior to filing the NOI for permit coverage under the MSGP. AMEC anticipates that this information is suitable to meet Criterion C of the Endangered Species Permit Eligibility requirements in Appendix IV of the DGP.

Historic Properties Permit Eligibility

Based on a review of the Massachusetts Cultural Resource Information System, there are no listed areas, buildings, burial grounds, objects or structures in the vicinity of the Southampton Street Maintenance Facility. Additionally, the proposed subsurface construction activities are limited to the removal of USTs that were installed in 1998. Dewatering activities are limited to the work area for the UST removal and pumped groundwater will be discharged to an existing on-site stormwater catch basin. Based on this information, the proposed construction activity and dewatering discharge at the site do not have the potential to impact historic properties. As a result, the facility meets the DGP eligibility Criterion A for Historic Properties.

In addition to the above information, a Project Notification Form was submitted to the Massachusetts Historic Commission (MHC) and the MHC determined that the project is unlikely to affect significant historic or archaeological resources (see **Attachment E**).

Dewatering Treatment System

The dewatering sump and proposed discharge location are identified on the site plan included in Attachment A. A schematic of the proposed treatment system is provided in **Attachment F**, which

Southampton Street Maintenance Facility
July 29, 2016



is based on the anticipated system that will be used by the contractor. The location and layout of equipment on-site may vary, but the operating parameters (e.g., maximum flow rate) and discharge location will not change.

If you have any questions or need additional information, please do not hesitate to contact me by phone at (978) 392-5355 or via email: rich.niles@amecfw.com.

AMEC Massachusetts, Inc.

A handwritten signature in black ink, appearing to read "Rich Niles".

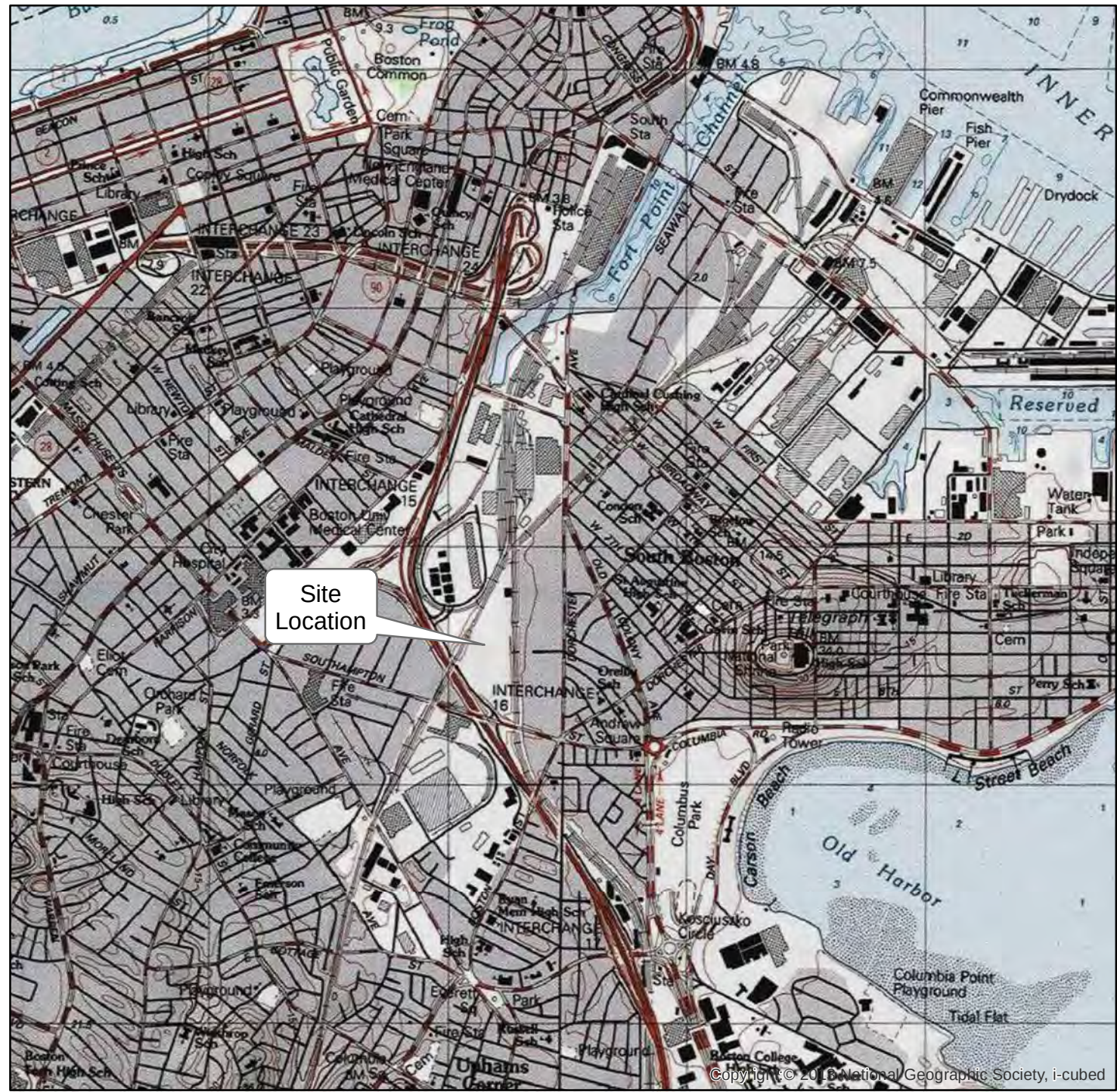
Rich Niles
Water Resources Project Manager

cc: Joseph Allione, Amtrak
Rob Graham, Amtrak
George Bray, Amtrak

Attachments: A – Figure 1 USGS Map and Site Plan
B – Laboratory Data Report
C – Notice of Intent
D – Endangered Species Information
E – MHC Project Notification Form and Determination
F – Treatment System Layout and Schematic

Attachment A

Figure 1 USGS Map and Site Plan



SITE LOCATION MAP

Amtrak
Southampton Street
Maintenance Facility

Boston, Massachusetts

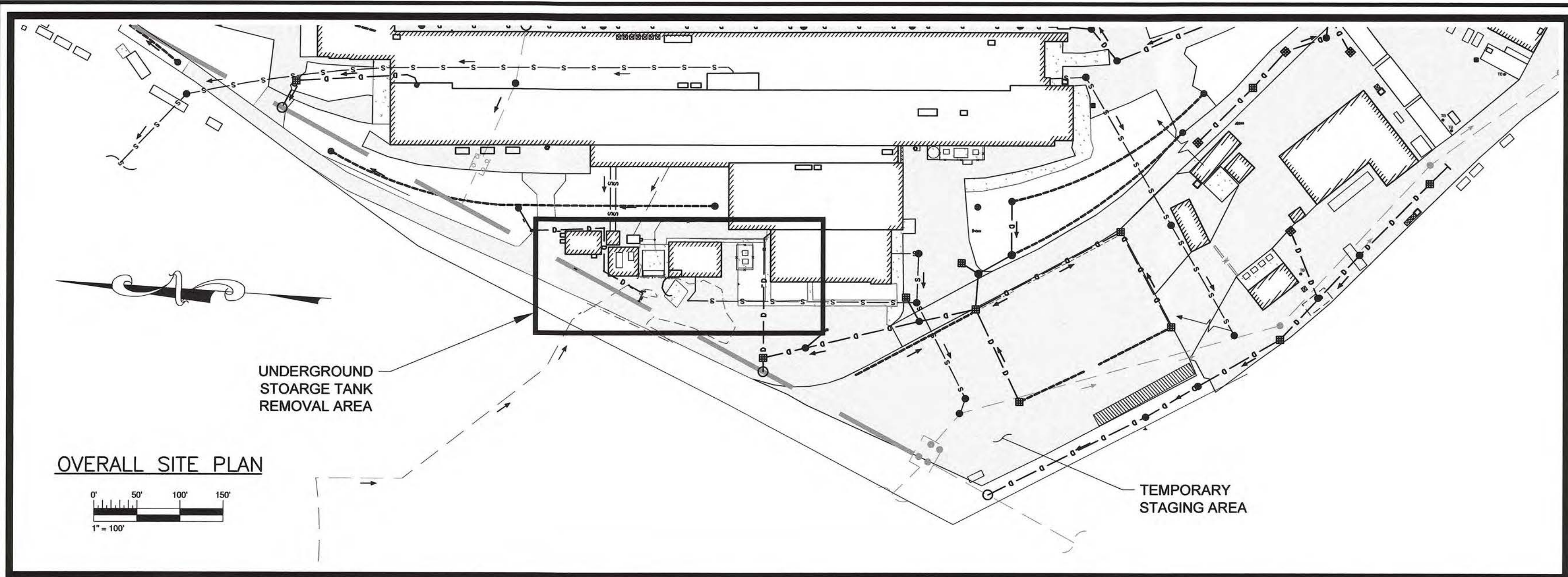
Location of Site



FIGURE 1



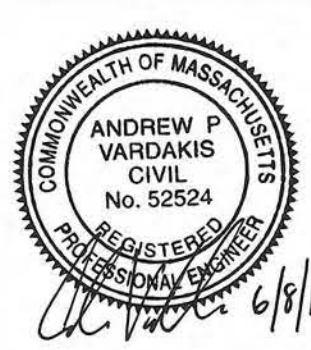
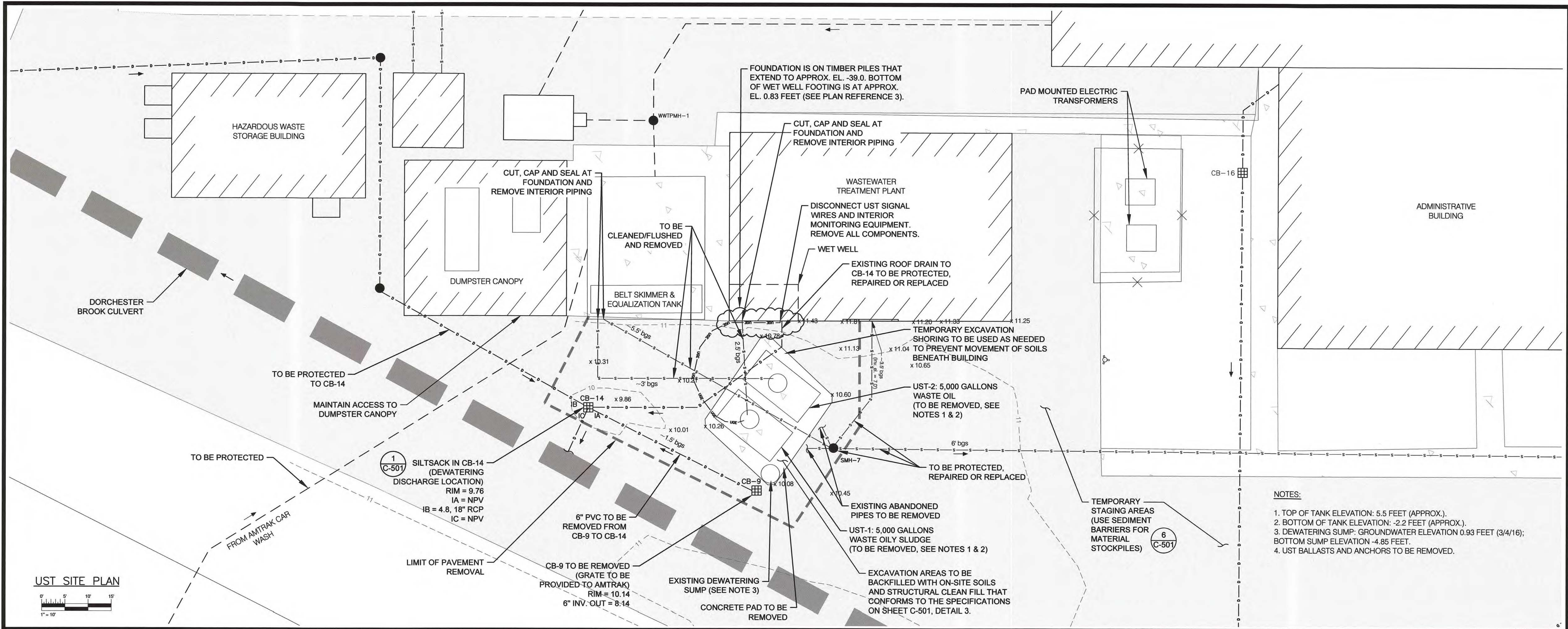
**amec
foster
wheeler**
Amec Foster Wheeler
Environment & Infrastructure, Inc.
271 Mill Road
Chelmsford, MA 01824
(978) 692-9090



PLAN REFERENCES:

LEGEND:

GENERAL NOTE:



REV	D	M	Y	ISSUE/REVISION DESCRIPTION	ENG.	APPR.
08	06	2016		ISSUED FOR BIDDING	APV	RBN



NATIONAL RAILROAD
PASSENGER CORPORATION
(AMTRAK)

amec foster wheeler

271 Mill Road, Chelmsford, MA 01824

DATUM:	NA
PROJECTION:	NA
DRAWN BY:	A. VARDAKIS
REVIEWED BY:	R. NILES
ORIGINAL SCALE:	AS SHOWN

AMTRAK
SOUTHAMPTON STREET MAINTENANCE FACILITY
BOSTON, MASSACHUSETTS

UNDERGROUND STORAGE TANK REMOVAL
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJECT NO.:	2-7771-0631
REVISION NO.:	0
DATE:	8 JUNE 2016
FIGURE NO.:	C-101
SHEET NO.:	1 of 3

Attachment B

Laboratory Data Report



ANALYTICAL REPORT

Lab Number:	L1616358
Client:	AMEC Foster Wheeler E & I, Inc. 271 Mill Road 3rd Floor Chelmsford, MA 01824
ATTN:	Rich Niles
Phone:	(978) 392-5355
Project Name:	AMTRAK SHSY
Project Number:	277710631.0200
Report Date:	06/07/16

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), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1616358-01	SUMP_05312016	WATER	BOSTON, MA	05/31/16 08:45	05/31/16
L1616358-02	DORCHESTER BROOK	WATER	BOSTON, MA	05/31/16 09:10	05/31/16

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

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: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Case Narrative (continued)

MCP Related Narratives

Metals

In reference to question G:

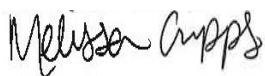
L1616358-01: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question I:

L1616358-01: All samples were analyzed for a subset of MCP analytes per the Chain of Custody.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 06/07/16

METALS

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

SAMPLE RESULTS

Lab ID: L1616358-01
Client ID: SUMP_05312016
Sample Location: BOSTON, MA
Matrix: Water

Date Collected: 05/31/16 08:45
Date Received: 05/31/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab											
Antimony, Total	ND		mg/l	0.0020	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Arsenic, Total	0.0009		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Cadmium, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Chromium, Total	ND		mg/l	0.0010	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Copper, Total	ND		mg/l	0.0020	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Iron, Total	14		mg/l	0.05	--	1	06/02/16 13:45	06/02/16 22:53	EPA 3005A	97,6010C	FB
Lead, Total	0.0009		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Mercury, Total	ND		mg/l	0.0002	--	1	06/01/16 14:23	06/01/16 21:45	EPA 7470A	97,7470A	EA
Nickel, Total	0.0020		mg/l	0.0010	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Silver, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
Zinc, Total	ND		mg/l	0.0100	--	1	06/02/16 13:45	06/03/16 12:05	EPA 3005A	97,6020A	TT
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	--	1		06/03/16 12:05	NA	107,-	



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

SAMPLE RESULTS

Lab ID: L1616358-02
Client ID: DORCHESTER BROOK
Sample Location: BOSTON, MA
Matrix: Water

Date Collected: 05/31/16 09:10
Date Received: 05/31/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	3500		mg/l	0.66	NA	1	06/06/16 08:55	06/06/16 20:45	EPA 3005A	1,6010C	AM



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG899512-1										
Mercury, Total	ND		mg/l	0.0002	--	1	06/01/16 14:23	06/01/16 21:23	97,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG899914-1										
Iron, Total	ND		mg/l	0.05	--	1	06/02/16 13:45	06/02/16 21:44	97,6010C	FB

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Mansfield Lab for sample(s): 01 Batch: WG899915-1										
Antimony, Total	ND		mg/l	0.0020	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Arsenic, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Cadmium, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Chromium, Total	ND		mg/l	0.0010	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Copper, Total	ND		mg/l	0.0020	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Lead, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Nickel, Total	ND		mg/l	0.0010	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Silver, Total	ND		mg/l	0.0005	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT
Zinc, Total	ND		mg/l	0.0100	--	1	06/02/16 13:45	06/03/16 11:51	97,6020A	TT

Prep Information

Digestion Method: EPA 3005A



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 02 Batch: WG900874-1										
Hardness	ND		mg/l	0.66	NA	1	06/06/16 08:55	06/06/16 21:30	1,6010C	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG899512-2 WG899512-3								
Mercury, Total	111		111		80-120	0		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG899914-2 WG899914-3								
Iron, Total	89		90		80-120	1		20
MCP Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG899915-2 WG899915-3								
Antimony, Total	100		102		80-120	2		20
Arsenic, Total	113		115		80-120	2		20
Cadmium, Total	114		114		80-120	0		20
Chromium, Total	106		109		80-120	3		20
Copper, Total	109		113		80-120	4		20
Lead, Total	114		116		80-120	2		20
Nickel, Total	110		114		80-120	4		20
Silver, Total	108		106		80-120	2		20
Zinc, Total	107		106		80-120	1		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 Batch: WG900874-2								
Hardness	103		-		80-120	-		

INORGANICS & MISCELLANEOUS

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

SAMPLE RESULTS

Lab ID: L1616358-01
Client ID: SUMP_05312016
Sample Location: BOSTON, MA
Matrix: Water

Date Collected: 05/31/16 08:45
Date Received: 05/31/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	06/01/16 00:05	06/01/16 01:34	97,7196A	VM
General Chemistry - Westborough Lab										
pH (H)	6.9		SU	-	NA	1	-	06/01/16 03:10	121,4500H+-B	MC
Anions by Ion Chromatography - Westborough Lab										
Chloride	2940		mg/l	125	--	250	-	06/02/16 22:14	44,300.0	AU



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP General Chemistry - Westborough Lab for sample(s): 01 Batch: WG899278-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	06/01/16 00:05	06/01/16 01:30	97,7196A	VM
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG900127-1										
Chloride	ND		mg/l	0.500	--	1	-	06/02/16 17:21	44,300.0	AU



Lab Control Sample Analysis

Batch Quality Control

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG899275-1								
pH	101		-		99-101	-		5
MCP General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG899278-2 WG899278-3								
Chromium, Hexavalent	104		104		49-151	0		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG900127-2								
Chloride	95		-		90-110	-		

Lab Duplicate Analysis
Batch Quality Control**Project Name:** AMTRAK SHSY**Project Number:** 277710631.0200**Lab Number:** L1616358**Report Date:** 06/07/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG899275-2 QC Sample: L1616358-01 Client ID: SUMP_05312016						
pH (H)	6.9	6.8	SU	1		5

Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

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(*)
L1616358-01A	Plastic 250ml HNO3 preserved	A	<2	3.1	Y	Absent	MCP-FE-6010T-10(180),MCP-CR-6020T-10(180),MCP-7470T-10(28),MCP-CU-6020T-10(180),MCP-ZN-6020T-10(180),MCP-AS-6020T-10(180),MCP-NI-6020T-10(180),MCP-AG-6020T-10(180),MCP-CD-6020T-10(180),MCP-PB-6020T-10(180),MCP-SB-6020T-10(180)
L1616358-01B	Plastic 500ml unpreserved	A	7	3.1	Y	Absent	CL-300(28),PH-4500(.01),MCP-HEXCR7196-10(1)
L1616358-02A	Plastic 120ml HNO3 preserved	A	<2	3.1	Y	Absent	HARDT(180)

*Values in parentheses indicate holding time in days



Project Name: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
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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: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

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: AMTRAK SHSY
Project Number: 277710631.0200

Lab Number: L1616358
Report Date: 06/07/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.
- 107 Alpha Analytical - In-house calculation method.
- 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.



Certification Information

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

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

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, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

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.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, 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, SM9222D-MF.**

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

PAGE 1 OF 1

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

Project Name: Amtrak SHSY

Project Location: Boston, MA

Project #: 277710631.0200

Project Manager: Rich Niles

ALPHA Quote #:

Turn-Around Time

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

Date Due:

Additional Project Information:

Date Rec'd in Lab:

Report Information - Data Deliverables

☒ ADEx ☒ EMAIL

ALPHA Job #: 21616358

Billing Information

☒ 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

Criteria

ANALYSIS

VOC: ☐ 8280 ☐ 624 ☐ 524.2

SVOC: ☐ ABN ☐ PAH

METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15

METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13

EPH: ☐ Ranges & Targets ☐ Ranges Only

VPH: ☐ Ranges & Targets ☐ Ranges Only

☐ PCB ☐ PEST

TPH: ☐ Quant Only ☐ Fingerprint

PH MCP-HEXCR7196-10 CL

Total Hg Total Metals

Total Metals

SAMPLE INFO

Filtration

☐ Field
☐ Lab to do

Preservation
☐ Lab to do

Sample Comments

	TOTAL #	BOTTLES
1. 100% Pure	100	100
2. 99% Pure	100	100
3. 98% Pure	100	100
4. 97% Pure	100	100
5. 96% Pure	100	100
6. 95% Pure	100	100
7. 94% Pure	100	100
8. 93% Pure	100	100
9. 92% Pure	100	100
10. 91% Pure	100	100
11. 90% Pure	100	100
12. 89% Pure	100	100
13. 88% Pure	100	100
14. 87% Pure	100	100
15. 86% Pure	100	100
16. 85% Pure	100	100
17. 84% Pure	100	100
18. 83% Pure	100	100
19. 82% Pure	100	100
20. 81% Pure	100	100
21. 80% Pure	100	100
22. 79% Pure	100	100
23. 78% Pure	100	100
24. 77% Pure	100	100
25. 76% Pure	100	100
26. 75% Pure	100	100
27. 74% Pure	100	100
28. 73% Pure	100	100
29. 72% Pure	100	100
30. 71% Pure	100	100
31. 70% Pure	100	100
32. 69% Pure	100	100
33. 68% Pure	100	100
34. 67% Pure	100	100
35. 66% Pure	100	100
36. 65% Pure	100	100
37. 64% Pure	100	100
38. 63% Pure	100	100
39. 62% Pure	100	100
40. 61% Pure	100	100
41. 60% Pure	100	100
42. 59% Pure	100	100
43. 58% Pure	100	100
44. 57% Pure	100	100
45. 56% Pure	100	100
46. 55% Pure	100	100
47. 54% Pure	100	100
48. 53% Pure	100	100
49. 52% Pure	100	100
50. 51% Pure	100	100
51. 50% Pure	100	100
52. 49% Pure	100	100
53. 48% Pure	100	100
54. 47% Pure	100	100
55. 46% Pure	100	100
56. 45% Pure	100	100
57. 44% Pure	100	100
58. 43% Pure	100	100
59. 42% Pure	100	100
60. 41% Pure	100	100
61. 40% Pure	100	100
62. 39% Pure	100	100
63. 38% Pure	100	100
64. 37% Pure	100	100
65. 36% Pure	100	100
66. 35% Pure	100	100
67. 34% Pure	100	100
68. 33% Pure	100	100
69. 32% Pure	100	100
70. 31% Pure	100	100
71. 30% Pure	100	100
72. 29% Pure	100	100
73. 28% Pure	100	100
74. 27% Pure	100	100
75. 26% Pure	100	100
76. 25% Pure	100	100
77. 24% Pure	100	100
78. 23% Pure	100	100
79. 22% Pure	100	100
80. 21% Pure	100	100
81. 20% Pure	100	100
82. 19% Pure	100	100
83. 18% Pure	100	100
84. 17% Pure	100	100
85. 16% Pure	100	100
86. 15% Pure	100	100
87. 14% Pure	100	100
88. 13% Pure	100	100
89. 12% Pure	100	100
90. 11% Pure	100	100
91. 10% Pure	100	100
92. 9% Pure	100	100
93. 8% Pure	100	100
94. 7% Pure	100	100
95. 6% Pure	100	100
96. 5% Pure	100	100
97. 4% Pure	100	100
98. 3% Pure	100	100
99. 2% Pure	100	100
100. 1% Pure	100	100
101. 0% Pure	100	100

[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= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H = Na₂S₂O₃
I= Ascorbic Acid
J = NH₄Cl
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)

Attachment C

Notice of Intent

II. Suggested Notice of Intent (NOI) Format

1. General facility information. Please provide the following information about the facility.

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

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

a) Name of receiving water into which discharge will occur: _____
State Water Quality Classification: _____ Freshwater: _____ Marine Water: _____

- b) Describe the discharge activities for which the owner/applicant is seeking coverage:
1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
 2. Short-term or long-term dewatering of foundation sumps.
 3. Other.

c) Number of outfalls _____

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 288,000
GPD Average Monthly Flow 144,000 GPD

e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.0 Min pH 6.9

f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit.

g.) What treatment does the wastewater receive prior to discharge? Filtration for sediment

h.) Is the discharge continuous? Yes _____ No _____ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) _____
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____;
If (I), number of days/year there is a discharge _____
Is the discharge temporary? Yes _____ No _____
If yes, approximate start date of dewatering _____ approximate end date of dewatering _____

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

j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations _____ cfs
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC): k.) Does the discharge occur in an ACEC? Yes _____ No _____ If yes, provide the name of the ACEC: _____

3. Contaminant Information

a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)). No b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. None
--

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

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

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes _____ No _____ ; Question 2: No _____ Yes _____ b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No _____ If yes, attach the results of the consultation(s). c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met? _____ d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes _____ or No _____ If yes, provide that name of the Indian Tribe associated with the property. _____

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

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

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

Facility Name: Southampton Street Maintenance Facility

Operator signature:



Digitally signed by Joseph "JC" Allione Jr
DN: cn=Joseph "JC" Allione Jr, o=AMTRAK, ou=NED-EAST MECH, email=joseph.allione@amtrak.com, c=US
Date: 2016.07.29 13:32:06 -04'00'

Print Full Name and Title: Joseph Allione, Jr., Assistant Superintendent, Facility Manager

Date:

Federal regulations require this application to be signed as follows:

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

Attachment D

Endangered Species Information

Niles, Rich

From: Allen, Kristy [Kristy.Allen@tetrattech.com]
Sent: Tuesday, August 04, 2015 2:14 PM
To: Joseph.Allione@amtrak.com
Cc: Niles, Rich; msgpesa@epa.gov
Subject: COMPLETE - Criterion C Eligibility Form Forwarded to the Services, Amtrak Southampton Street Maintenance Facility, Boston, MA
Attachments: Amtrak MSGP Criterion C Form, MAR05CY12.pdf

This email is in response to the Criterion C Eligibility Form (Form) submitted to U.S. EPA as part of the industrial stormwater Multi-Sector General Permit (MSGP) requirements. The Form submitted for Amtrak Southampton Street Maintenance Facility was complete and forwarded to the Services (FWS and NMFS) for review on August 4, 2015. You may submit the NOI for permit coverage if no response is received by August 30, 2015.

Kristy Allen | Environmental Scientist

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Criterion C Eligibility Form

Instructions:

In order to be eligible for coverage under criterion C, you must complete the following form and you must submit it to EPA following the instructions in Section VII a **minimum of 30 days prior to filing your NOI for permit coverage**. After you submit your form, you may be contacted by EPA with additional measures (e.g., additional stormwater controls or modifications to your discharge-related activities) that you must implement in order to ensure your eligibility under criterion C.

If after completing this worksheet you cannot make a determination that your discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or designated critical habitat, you must submit this completed worksheet to EPA, and you may not file your NOI for permit coverage until you receive a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Note: Much of the information needed for this form can be obtained from your draft SWPPP which will be needed when you file your NOI.

SECTION I. OPERATOR, FACILITY, AND SITE LOCATION INFORMATION.

1) Operator Information

a) **Operator Name:** National Railroad Passenger Corporation

b) **Point of Contact**

First Name: Joseph **Last Name:** Allione

Phone Number: (617) 345-7846

E-mail: Joseph.Allione@amtrak.com

2) Facility Information

a) **Facility Name:** Amtrak Southampton Street Maintenance Facility

b) **Check which of the following applies:**

☐ I am seeking coverage under the MSGP as a new discharger or as a new source

☐ I am seeking coverage under the MSGP as an existing discharger and my facility has modifications to its discharge characteristics (e.g., changes in discharge flow or area drained, different pollutants) and/or discharge-related activities (e.g., stormwater controls)

Indicate the number of years the facility has been in operation: _____ years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: _____

☒ I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Indicate the number of year the facility has been in operation: 29 years

Provide your NPDES ID (i.e., permit tracking number) from your previous MSGP coverage: MAR05CY12

c) Facility Address:

Address 1: 2 Frontage Road

Address 2: _____

City: Boston State: MA Zip Code: 02118

d) Identify the primary industrial sector to be covered under the 2015 MSGP:

SIC Code 4011 or Primary Activity Code _____

Sector P and Subsector 1

e) Identify the sectors of any co-located activities to be covered under the 201r MSGP:

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

Sector _____ Subsector _____

f) Estimated area of industrial activity exposed to stormwater: 27 acres

g) Provide a general description of the industrial activities that are taking place at this facility:

The facility consists of several buildings, office trailers, steel storage containers ("connex boxes"), outdoor material storage areas, and two rail yards. Operationally, the facility is divided into three separate but contiguous areas for the servicing and maintenance of Amtrak passenger trains, the storage and limited servicing of MBTA Commuter Rail trains, and the storage of supplies, equipment, and vehicles for Amtrak Engineering Department forces involved with maintenance-of-way activities.

3) Receiving Waters Information

List all the stormwater outfalls from your facility.				For each outfall, provide the following receiving water information:	
Outfall ID	Design Capacity (if known)	Latitude (decimal degrees)	Longitude (decimal degrees)	Name of the receiving water that receives stormwater from the outfall and/or from the MS4 that the outfall discharges to	Type of Waterbody (e.g., lake, pond, river/stream/creek, estuarine/marine water)
01	Unknown	<u>_42.3354</u>	<u>-71.0605</u>	Boston Inner Harbor	Marine water
02	Unknown	<u>_42.3345</u>	<u>-71.0608</u>	Boston Inner Harbor	Marine water
03	Unknown	<u>_42.3338</u>	<u>-71.0597</u>	Boston Inner Harbor	Marine water
04	Unknown	<u>_42.3338</u>	<u>-71.0604</u>	Boston Inner Harbor	Marine water
05	Unknown	<u>_42.3329</u>	<u>-71.0618</u>	Boston Inner Harbor	Marine water
06	Unknown	<u>_72.3322</u>	<u>-71.0623</u>	Boston Inner Harbor	Marine Water
07	Unknown	<u>_42.3334</u>	<u>-71.0616</u>	Boston Inner Harbor	Marine Water

SECTION II. ACTION AREA

Ensure that your action area is described in [Attachment 1](#), as required in [Step 2](#).

SECTION III. LISTED SPECIES AND CRITICAL HABITAT LIST

Ensure that the listed species and critical habitat list is included in [Attachment 2](#), as required in [Step 3](#).

Review your species list in Attachment 2, choose one of the following three statements, and follow the corresponding instructions:

☐ The species list includes only terrestrial species and/or their designated critical habitat. No aquatic or aquatic-dependent species or their critical habitat are present in the action area. **You may skip to [Section IV](#) of this form. You are not required to fill out [Section V](#).**

☒ The species list includes only aquatic and/or aquatic-dependent species and/or their designated critical habitat. No terrestrial species or their critical habitat are present in the action area. **You may skip to [Section V](#) of this form and are not required to fill out [Section IV](#).**

☐ The species list includes both terrestrial and aquatic or aquatic-dependent species and/or their designated critical habitat. **You must fill out both [Sections IV](#) and [V](#) of this form.**

Note: For the purposes of this permit, "terrestrial species" would not include animal or plant species that 1) spends any portion of its life cycle in a waterbody or wetland, or 2) if an animal, depends on prey or habitat that occurs in a waterbody or wetland. For example, shorebirds, wading birds, amphibians, and certain reptiles would not be considered terrestrial species under this definition. Please also be aware that some terrestrial animals (e.g., certain insects, amphibians) may have an aquatic egg or larval/juvenile phase.

SECTION IV. EVALUATION OF DISCHARGE-RELATED ACTIVITIES EFFECTS

Note: You are only required to fill out this section if your facility's action area contains terrestrial species and/or their designated critical habitat. If your action area only contains aquatic and/or aquatic-dependent species and/or their designated critical habitat, you can skip directly to [Section V](#).

Most of the potential effects related to coverage under the MSGP are assumed to occur to aquatic and/or aquatic-dependent species. However, in some cases, potential effects to terrestrial species and/or their critical habitat should be considered as well from any discharge-related activities that occur during coverage under the MSGP. Examples of discharge-related activities that could have potential effects on listed terrestrial species or their critical habitat include the storage of materials and land disturbances associated with stormwater management-related activities (e.g., the installation or placement of stormwater control measures).

A. Select the applicable statement(s) below and follow the corresponding instructions:

☐ There are no discharge-related activities that are planned to occur during my coverage under the MSGP. You can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or their critical habitat in your action area, you must skip to [Section V](#), *Evaluation of Discharge Effects*, below.
- If there are no aquatic or aquatic-dependent species you may skip to [Section VI](#) and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in [Section VII](#) of this form. You may select criterion C on your NOI form and may submit your NOI for permit coverage 30 days after you have submitted this *Criterion C Eligibility Form*. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s) in your action area**, as well as any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.

☐ There are discharge-related activities planned as part of the proposal. Describe your discharge-related activities in the following box and continue to (b) below.

Describe discharge-related activities:

B. In order to ensure any discharge-related activities will have no likely adverse effects on listed species and/or their designated critical habitat, you must certify that all the following are true:

☐ Discharge-related activities will occur:

- on previously cleared/developed areas of the site where maintenance and operation of the facility are currently occurring or where existing conditions of the area(s) in which the discharge-related activities will occur precludes its use by listed species (e.g., work on existing impervious surfaces, work occurring inside buildings, area is not used by species), and
- if discharge-related activities will include the establishment of structures (including, but not limited to, infiltration ponds and other controls) or any related disturbances, these structures and/or disturbances will be sited in areas that will not result in isolation or degradation of nesting, breeding, or foraging habitat or other habitat functions for listed animal species (or their designated critical habitat), and will avoid the destruction of native vegetation (including listed plant species).

☐ If vegetation removal (e.g., brush clearing) or other similar activities will occur, no terrestrial listed species that use these areas for habitat would be expected to be present during vegetation removal.

If all the above are true, you can conclude that your discharge-related activities will have no likely adverse effects, and:

- If there are any aquatic or aquatic-dependent species and/or critical habitat in your action area, you must skip to Section V, Evaluation of Discharge Effects, below.
- If there are no aquatic or aquatic-dependent species you may skip to Section VI and verify that your activities will have no likely adverse effects. You must submit this form to EPA as specified in Section VII of this form. You may select criterion C on your NOI and may submit your NOI for permit coverage 30 days after you have submitted this completed form. You must also provide a description of the basis for the criterion you selected on your NOI form, **including the species and critical habitat list(s)**, and any other documentation supporting your eligibility. You must also include this completed *Criterion C Eligibility Form* in your SWPPP.
- **If any of the above are not true**, you cannot conclude that your discharge-related activities will have no likely adverse effects. You must complete the rest of this form (if applicable), and must submit the form to EPA for assistance in determining your eligibility for coverage.

SECTION V. EVALUATION OF DISCHARGE EFFECTS

Note: You are only required to fill out this section if your facility's action area includes aquatic and/or aquatic-dependent species and/or their critical habitat.

In this section, you will evaluate the likelihood of adverse effects from your facility's discharges. The scope of effects to consider will vary with each facility and species/critical habitat characteristics. The following are examples of discharge effects you should consider:

- **Hydrological Effects.** Stormwater discharges may adversely affect receiving waters from pollutant parameters such as turbidity, temperature, salinity, or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely.
- **Toxicity of Pollutants.** Pollutants in stormwater may have toxic effects on listed species and may adversely affect critical habitat. Exceedances of benchmarks, effluent limitation guidelines, or state or tribal water quality requirements may be indicative of potential adverse effects on listed species or critical habitat. However, some listed species may be adversely affected at pollutant concentrations below benchmarks, effluent limitation guidelines, and state or tribal water quality standards. In addition, stormwater pollutants identified in Part 5.2.3.2 of your SWPPP, but not monitored as benchmarks or effluent limitation guidelines, may also adversely affect listed species and critical habitat.

As these effects are difficult to analyze for listed species, their prey, habitat, and designated critical habitat, this form helps you to analyze your discharges and make a determination of whether your discharges will have likely adverse effects and whether there are any additional controls you can implement to ensure no likely adverse effects.

A. Evaluation of Pollutants and Controls to Avoid Adverse Effects. In this section, you must document all of your pollutant sources and pollutants expected to be discharged in stormwater. You must also document the controls you will implement to avoid adverse effects on listed aquatic and aquatic-dependent species. You must include specific details about the expected effectiveness of the controls in avoiding adverse effects to the listed aquatic-and aquatic-dependent species. Attach additional pages if needed.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species. Include information supporting why the control(s) will ensure no adverse effects, including any data you have about the effectiveness of the control(s) in reducing pollutant concentrations. You may also attach photos of your controls to this form.
e.g., vehicle and equipment fueling	e.g., • Oil & grease • Diesel • Gasoline • TSS • Antifreeze	e.g., • Fueling operators (including the transfer of fuel from tank trucks) will be conducted on an impervious or contained pad or under cover • Drip pans will be used where leaks or spills of fuel can occur and where making and breaking hose connections • Spill kit will be kept on-site in close proximity to potential spill areas • Any spills will be cleaned-up immediately using dry clean up methods • Stormwater runoff will be diverted around fueling areas using diversion dikes and curbing

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Petroleum product transfers (hazardous materials and wastes)	Virgin oils, waste oil, and waste oily solids	Most bulk storage containers are located indoors and spill prevention procedures are in place at all storage and transfer locations. Spill absorbent pads and/or spill buckets are used during locomotive fueling. Facility personnel oversee all product transfers and receive annual spill prevention training.
Drum storage and handling (hazardous materials and wastes)	Virgin oils, waste oil, and waste oily solids	Drums are stored indoors on containment pallets or within containment areas. Spill prevention procedures are maintained at all storage and transfer locations. All containers are clearly labeled and all covers/bungholes are kept closed when not in use. Facility personnel receive annual spill prevention training.
Equipment storage (locomotives and on-track maintenance equipment)	Petroleum products (fuel, engine oil, and hydraulic fluids)	Track absorbent pads (mats) are maintained beneath parked locomotives and designated on-track equipment to collect any drips or leaks.
Locomotive brake testing and storage	Traction sand	Sand is collected on track absorbent pads (mats) beneath locomotives. Waste sand is removed and temporarily stored in a sealed and covered container to await off-site disposal.
Work vehicle storage (trucks and heavy equipment)	Petroleum products (fuel, engine oil, and hydraulic fluids)	Absorbent pads (mats) are maintained beneath designated vehicles and equipment as needed to collect any drips or leaks. In addition, a spill kit and drain blocker mat are maintained where vehicles are commonly parked.

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Equipment maintenance	Virgin oils, waste oil, and waste oily solids	Locomotive maintenance is conducted indoors. Occasional outdoor maintenance is conducted for small vehicles and equipment. Facility personnel receive annual spill prevention training.
Servicing of commuter rail coaches	Sanitary wastewater	Sanitary wastewater is removed from commuter rail coaches by a single electric vehicle with a storage tank. Wastewater is transferred to a dump station with a direct connection to the municipal sanitary sewer system.
Equipment washing	Wash water (detergents, oil & grease)	Trains are washed inside the facility Car Wash and yard switcher locomotives are occasionally steam cleaned inside the Repair Shop. All wash water is collected and discharged to the on-site wastewater treatment plant that ultimately discharges to the sanitary sewer. Any other vehicle washing is prohibited.
Transformer use	Mineral oil (dielectric fluid)	Transformers are inspected on a regular basis for signs of deterioration and leaks and spill kits are maintained in close proximity.
☐ Check if you are not able to make a preliminary determination that any of your pollutants will be controlled to a level necessary to avoid adverse effects on aquatic and/or aquatic-dependent listed species and their designated critical habitat. You must check in <u>Section VI</u> that you are unable to make a determination of no likely adverse effects, and must complete the rest of the form. You must submit your completed form to EPA for assistance in determining your eligibility for coverage.		

Potential Pollutant Source	Potential Pollutants	Controls to Avoid Adverse Effects on Listed Aquatic and Aquatic-Dependent Species.
Railroad material storage	Wood preservative from new railroad ties, iron from steel rail and hardware	Absorbent pads (mats) are maintained beneath bundles of new railroad ties stored in the Front Rail Yard. No stormwater catch basins are located in this area.
Salt/sand storage for winter deicing activities	Sand and salt (calcium chloride)	A stockpile of salt and sand is stored inside the facility Salt Storage Shed.
Solid waste storage	Rubbish, cardboard, scrap wood, and scrap metal	The primary rubbish and scrap metal containers for the facility are stored indoors or under cover. Other containers stored outdoors are covered/sealed and inspected to ensure no leaks are occurring. Staff are trained to properly handle and dispose of wastes.

B. Analysis of Effects Based on Past Monitoring Data. Select which of the following applies to your facility:

- ☐ I have no previous monitoring data for my facility because there are no applicable monitoring requirements for my facility's sector(s).
- ☐ I have no previous monitoring data for my facility because I am a new discharger or a new source, but I am subject to monitoring under the 2015 MSGP. You must provide information to support a conclusion that your facility's discharges are not expected to result in benchmark or numeric effluent limit exceedances that will adversely affect listed species or their critical habitat:
- ☒ My facility has not had any exceedances under the 2008 MSGP of any required benchmark(s) or numeric effluent limits.
- ☐ My facility has had exceedances of one or more benchmark(s) or numeric effluent limits under the 2008 MSGP, but I have addressed them during my coverage under the 2008 MSGP, or in my evaluation of controls to avoid adverse effects in (A) above. Describe all actions (including specific controls) that you will implement to ensure that the pollutants in your discharge(s) will not result in likely adverse effects from future exceedances.
- ☐ Check if your facility has had exceedances of one or more benchmarks or numeric effluent limits under the 2008 MSGP and you have not been able to address them to avoid adverse effects from future exceedances, or if you are a new discharger or a new source but you are not sure if you can avoid adverse effects from possible exceedances. You must check in Section VI that you are unable to make a determination of no likely adverse effects. You must submit your completed form to EPA for assistance in determining your eligibility for coverage. You may not file your NOI for permit coverage until you are able to make a determination that your discharges will avoid adverse effects on listed species and designated critical habitat.

SECTION VI VERIFICATION OF PRELIMINARY EFFECTS DETERMINATION

Based on Steps I – V of this form, you must verify your preliminary determination of effects on listed species and designated critical habitat from your discharges and/or discharge-related activities :

- ☒ Following the applicable Steps in I – V above, I have made a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.
- ☐ Following the applicable Steps in I – V above, I am **not** able to make a preliminary determination that my discharges and/or discharge-related activities are not likely to adversely affect listed species and designated critical habitats.

Certification Information

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: J o s e p h C A l l i o n e

Title: A s s i s t a n t S u p e r i n t e n d e n t

Signature:  Digitally signed by Joseph "JC" Allione Jr
DN: cn=Joseph "JC" Allione Jr, o=AMTRAK, ou=NED-EAST MECH,
email=joseph.allione@amtrak.com, c=US
Date: 2015.07.31 09:55:53 -04'00'

Date: 07 / 31 / 2015

E-mail: J o s e p h . A l l i o n e @ a m t r a k . c o m

SECTION VII CRITERION C ELIGIBILITY FORM SUBMISSION INSTRUCTIONS

You must submit this completed form to EPA at msgapesa@epa.gov, including any attachments and any additional information that demonstrates how you will avoid or eliminate adverse effects to listed species or critical habitat (e.g., specific controls you will implement to avoid or eliminate adverse effects). **Any missing or incomplete information may result in a delay of your coverage under the permit.**

If you have made a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this form must be submitted a minimum of 30 days prior to submitting your NOI for permit coverage under criterion C. Please note that during either the 30-day *Criterion C Eligibility Form* review period prior to your NOI submission, or within 30 days after your NOI submission and before you have been authorized for permit coverage, EPA may advise you that additional information is needed, or that there are additional measures you must implement to avoid likely adverse effects.

If you are unable to make a preliminary determination that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat, this worksheet must be submitted to EPA, but you may not file your NOI for permit coverage until you have received a determination from EPA that your discharges and/or discharge-related activities are not likely to adversely affect listed species and critical habitat.

Attachment 1

Include a map **and a written description** of the action area of your facility, as required in Step 2. You may choose to include the map that is generated from the FWS' on-line mapping tool IPaC (the Information, Planning, and Consultation System) located at <http://ecos.fws.gov/ipac/>.

The written description of your action area that accompanies your action area map must explain your rationale for the extent of the action area drawn on your map. For example, your action area written description may look something like this:

The action area for the (name of your facility)'s stormwater discharges extends downstream from the outfall(s) in (name of receiving waterbody) (# of meters/feet/kilometers/miles). The downstream limit of the action area reflects the approximate distance at which the discharge waters and any pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because (insert rationale). The action area does/does not extend to the (name of receiving waterbody)'s confluence with (name of confluence waterbody) because (insert rationale).

Note that your action area written description will be highly site-specific, depending on the expected effects of your facility's discharges and discharge-related activities, receiving waterbody characteristics, etc.

The action area for the Amtrak Southampton Street Maintenance Facility encompasses the approximately 27-acre site and the Dorchester Brook Culvert that receives the facility's stormwater discharges. The Dorchester Brook Culvert is owned and operated by the local MS4 (Boston Water & Sewer Commission) and flows to Fort Point Channel (Boston Inner Harbor) approximately 1,500 feet north of the facility, which is the downstream limit of the action area. The Dorchester Brook Culvert receives stormwater and combined sanitary sewer flows from other entities within the contributing watershed and terminates at the BWSC combined sewer overflow (CSO) outfall # BOS 070.

The action area does not extend beyond the confluence of the Dorchester Brook Culvert and Fort Point Channel because the Fort Point Channel watershed and the channel itself are heavily urbanized and influenced by stormwater, CSO, and cooling water discharges. According to data available with the BWSC, there are a total of 45 storm drain outfalls, seven CSO outfalls, and four cooling water outfalls that discharge to Fort Point Channel.

Based on the above information, the downstream limit of the action area reflects the approximate distance at which the stormwater discharges and any pollutants from the Amtrak facility would be expected to cause potential adverse effects to listed species and/or critical habitat.

The action area is depicted on the map provided in Attachment 2 from the U.S. Fish and Wildlife Service on-line mapping tool IPaC.

Attachment 2

List or attach the listed species and critical habitat in your action area on this sheet, as required in Step 3. You must include a list for applicable listed NMFS and FWS species and critical habitat. If there are listed species and/or critical habitat for only one Service, you must include a statement confirming there are no listed species and/or critical habitat for the other Service. For FWS species, include the full printout from your IPaC query. *Note: If your Official Species List from the USFWS indicated no species or critical habitat were present in your action area, include the full consultation tracking code at the top of your Official Species List in your NOI submittal in the question "Provide a brief summary of the basis for the criterion selected in Appendix E." If an Official Species List was not available on IPaC, list the contact date and name of the Service staff with whom you corresponded to identify the existence of any USFWS species or critical habitat present in your action area.*

The U.S. Fish and Wildlife Service has identified the Red Knot (*calidris canutus rufa*) to be present in or near the vicinity of the action area for Amtrak Southampton Street Maintenance Facility. This information is provided in the attached Official Species List for Consultation Code: 05E1NE00-2015-SLI-0970

According to the endangered species maps available from the National Marine Fisheries Service (NMFS), the following species are likely present in or near the vicinity of the action area for the Amtrak Southampton Street Maintenance Facility:

- a) Humpback, Right, and Fin Whales
- b) Sea Turtles: Loggerhead, Kemp's Ridley, Leatherback and Green
- c) Atlantic Sturgeon
- d) Atlantic Salmon

Copies of the maps showing the estimated range of the above endangered species are attached.

There are no critical habitats within the action area for the Amtrak Southampton Street Maintenance Facility.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2015-SLI-0970

July 22, 2015

Event Code: 05E1NE00-2015-E-01361

Project Name: Amtrak Southampton Street Maintenance Facility

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Amtrak Southampton Street Maintenance Facility

Official Species List

Provided by:

New England Ecological Services Field Office

70 COMMERCIAL STREET, SUITE 300

CONCORD, NH 3301

(603) 223-2541

<http://www.fws.gov/newengland>

Consultation Code: 05E1NE00-2015-SLI-0970

Event Code: 05E1NE00-2015-E-01361

Project Type: WATER QUALITY MODIFICATION

Project Name: Amtrak Southampton Street Maintenance Facility

Project Description: 2 Frontage Road, Boston, MA. Active Amtrak facility for maintenance of trains to support Amtrak's northeast corridor operations. Existing developed and permitted site that is seeking renewal of the US EPA Multi-Sector General Permit (MSGP) for industrial stormwater discharges, effective June 4, 2015. Stormwater discharges to the Dorchester Brook Culvert, which flows to the Fort Point Channel and the Boston Inner Harbor (~1,500' north of the facility).

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: Amtrak Southampton Street Maintenance Facility

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-71.06104373844572 42.34280222638984, -71.06204509822417 42.34039675143872, -71.06079339981079 42.33510967046158, -71.06168746860929 42.33426369660239, -71.06265306385467 42.334025764313395, -71.06286764057586 42.333074026156, -71.06168746860929 42.3315142022437, -71.06036424636841 42.3305359863572, -71.06014966964722 42.330192286370945, -71.05925559822936 42.33003365467672, -71.05972051620483 42.335479780265096, -71.06079339981079 42.3358234523261, -71.061830521503 42.340370317301726, -71.06082916172454 42.34282865950443, -71.06104373844572 42.34280222638984)))

Project Counties: Suffolk, MA



United States Department of Interior
Fish and Wildlife Service

Project name: Amtrak Southampton Street Maintenance Facility

Endangered Species Act Species List

There are a total of 1 threatened or endangered 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	Status	Has Critical Habitat	Condition(s)
Red Knot (<i>Calidris canutus rufa</i>)	Threatened		



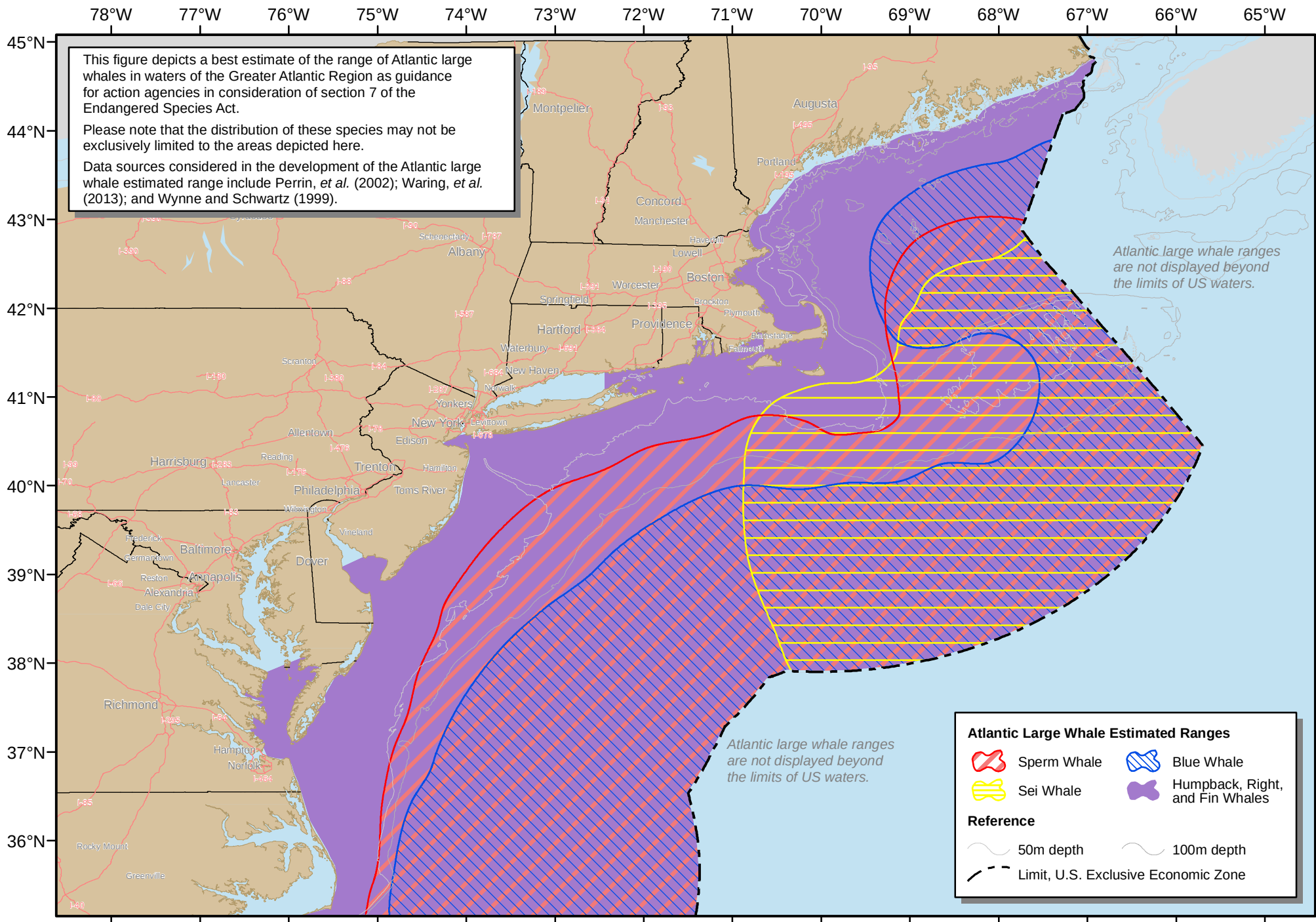
United States Department of Interior
Fish and Wildlife Service

Project name: Amtrak Southampton Street Maintenance Facility

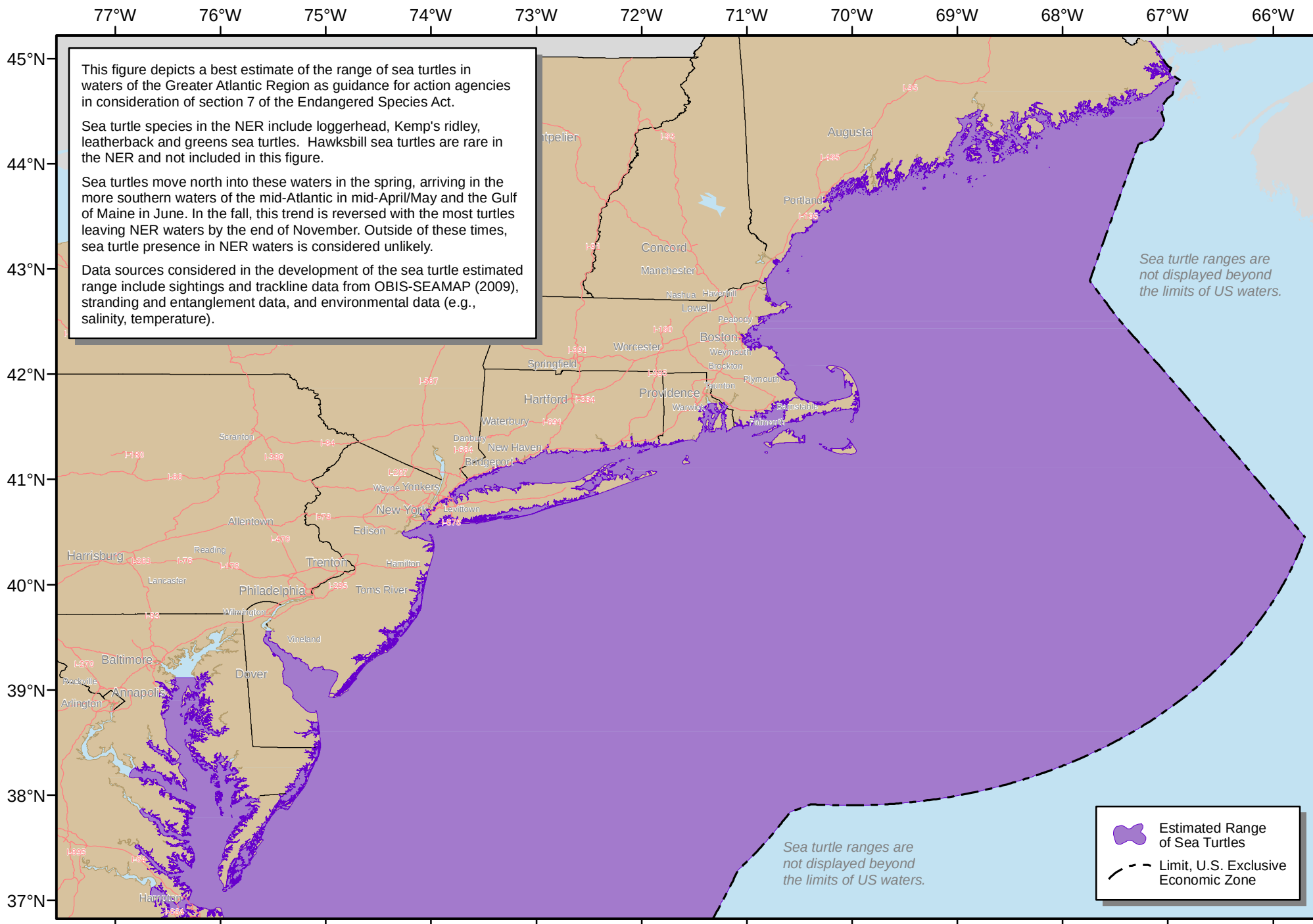
Critical habitats that lie within your project area

There are no critical habitats within your project area.

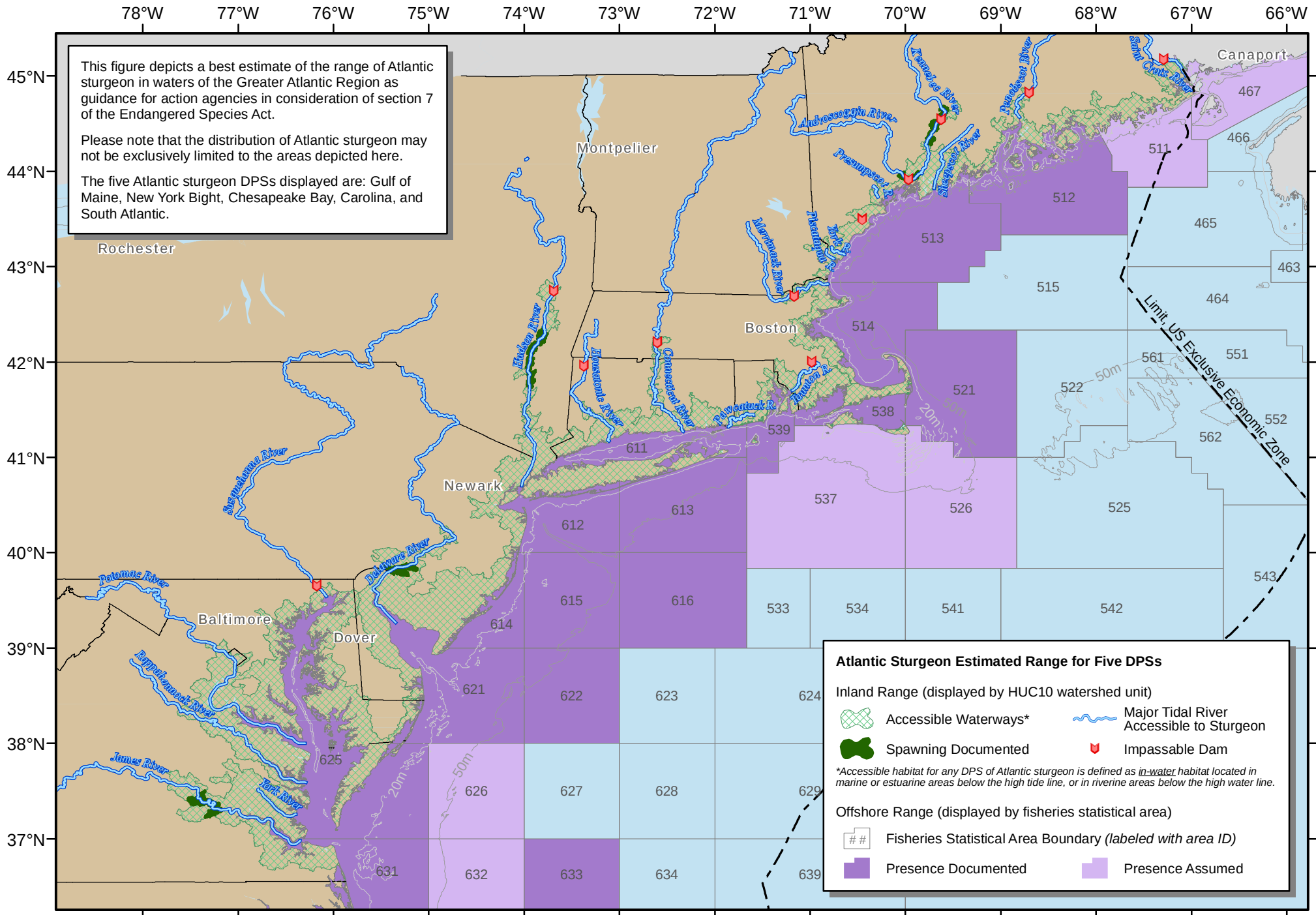
Estimated Range of Atlantic Large Whales



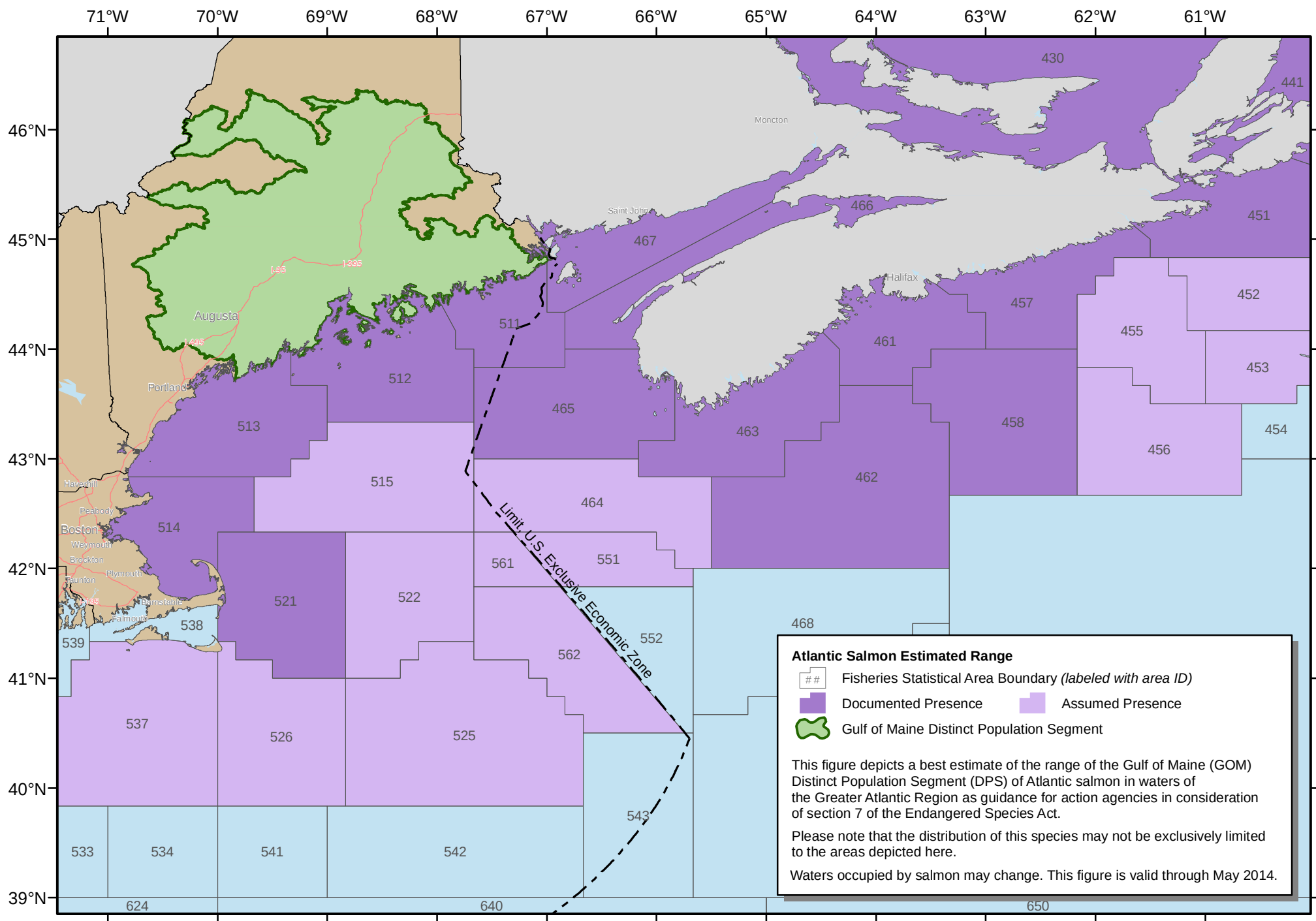
Estimated Range of Sea Turtles



Estimated Range of Atlantic Sturgeon Distinct Population Segments (DPSs)



Estimated Offshore Range of Atlantic Salmon



Step One: Are you an existing facility that is reapplying for certification under the 2015 MSGP?

If you are an existing facility you should have already addressed NHPA issues. To gain coverage under the 2008 MSGP you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts. As long as you are not constructing or installing any new stormwater control measures then you have met eligibility Criterion A of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If you are an existing facility and will construct or install stormwater control measures that require subsurface disturbance of less than one (1) acre then you should proceed to Step Three. (Note: Construction activities disturbing one (1) acre or more are not eligible for coverage under this permit.)

If you are a new facility then you should proceed to Step Two.

No activities are proposed at the Southamptton Street Facility, therefore, the facility has met eligibility Criterion A.

Step Two: Are you constructing or installing any stormwater control measures that require subsurface disturbance of less than one (1) acre?

If, as part of your coverage under this permit, you are not building or installing control measures on your site that cause less than one (1) acre of subsurface disturbance, then your discharge-related activities do not have the potential to have an effect on historic properties. You have no further obligations relating to historic properties. You have met eligibility Criterion A of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If the answer to the Step Two question is yes, then you should proceed to Step Three.

Step Three: Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?

If previous construction either revealed the absence of historic properties or prior disturbances preclude the existence of historic properties, then you have no further obligations relating to historic properties. You have met eligibility Criterion B of the MSGP. After you submit your NOI, there is a 30-day waiting period during which the SHPO, THPO, or other tribal representative may review your NOI. The SHPO, THPO, or other tribal representative may request that EPA hold up authorization based on concerns about potential adverse impacts to historic properties. EPA will evaluate any such request and notify you if any additional measures to address adverse impacts to historic properties are necessary.

If the answer to the Step Three question is no, then you should proceed to Step Four.

Step Four: Contact the appropriate historic preservation authorities

Where you are building and/or installing control measures affecting less than one (1) acre of land to control stormwater or allowable non-stormwater discharges associated with this

Attachment E

MHC Project Notification Form and Determination

RECEIVED

JUL 14 2016

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

MASS. HIST. COMM

60622

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: Amtrak Southampton Street Yard Facility UST Removal Project

Location / Address: 2 Frontage Road

City / Town: Boston

Project Proponent

Name: Amtrak

Address: 2 Frontage Road

City/Town/Zip/Telephone: Boston, MA 02110 (617) 345-7846

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Type of License or funding (specify)

U.S. Environmental Protection Agency

NPDES Dewatering General Permit

Project Description (narrative):

The proposed project consists of removing two 5,000 gallon underground storage tanks (USTs) and associated equipment that previously contained waste oil and oily sludge and restoring the site conditions with minor drainage modifications.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

No building demolition is proposed. Pavement and a concrete pad will be removed in order to access and remove the USTs and restore the site.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

The proposed project does not include any rehabilitation of existing buildings.

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

The proposed project includes the installation of a new stormwater catch basin to improve drainage conditions. A USGS figure and the project plans are provided in Attachment A.

After review of MHC files and the materials you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

5/31/96 (Effective 7/1/93) - corrected

950 CMR - 275

RC 60622

Jonathan K. Patton
Archaeologist/ Preservation Planner
Massachusetts Historical Commission

Date

+cc: Thelma Murphy, EPA

7/27/16

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

No. The MACRIS database was last reviewed on July 5, 2016 and no historic properties were identified.

What is the total acreage of the project area?

Woodland	0	acres	Productive Resources:		
Wetland	0	acres	Agriculture	0	acres
Floodplain	0	acres	Forestry	0	acres
Open space	0	acres	Mining/Extraction	0	acres
Developed	27	acres	Total Project Acreage	27	acres

What is the acreage of the proposed new construction? 0.06 acres

What is the present land use of the project area?

The property is located in a highly industrialized area of Boston and consists of several buildings, office trailers, steel storage containers ("connex boxes"), outdoor material storage areas, and two rail yards. Photographs of the project area are provided in Attachment B.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

A USGS Site Location Map clearly showing the project location is included in Attachment A.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form:  Date: July 13, 2016

Name: Rich Niles, Project Manager, AMEC Massachusetts, Inc.

Address: 271 Mill Road, 3rd Floor

City/Town/Zip: Chelmsford, MA 01824

Telephone: (978) 392-5355

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

Attachment F

Treatment System Layout and Schematic

Dewatering Treatment System Schematic

