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:				
112-116 Mount Auburn Street	112 Mount Auburn Street, Cambridge, MA 02138				
b) Location Address of the Facility (if different from mailing	Facility Location Type of Business:				
address):		Construction Site			
	longitude:71.122502 latitude: _42.372915	Facility SIC codes:			
c) Name of facility owner: Conductor's Building, LLC	Owner's email: dmessin	a@carpenterholdings.com			
Owner's Tel #: (617) 864-2800	Owner's Fax #:				
Address of owner (if different from facility address) Carpenter & Company, Inc., Charles Square, 20 Un Owner is (check one): 1. Federal2. State 3. Private					
Legal name of Operator, if not owner:					
Operator Contact Name: Darren Messina					
Operator Tel Number: (617) 864-2800 Fax N	umber:				
Operator's email: dmessina@carpenterholdings.com					
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:					
 Has a prior NPDES permit been granted for the discharge? Yes √ No If Yes, Permit Number: MAG70388 Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Yes No √ 					
2. Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Fes $N_0 \checkmark$ 3. Is the facility covered by an individual NPDES permit? Yes $N_0 \checkmark$ If Yes, Permit Number					
4. Is there a pending application on file with EPA for this discharge					

Appendix V - NPDES Dewatering General Permit

2. Disci	narge information. Flease provide information about the discharge, (attaching additional sheets as needed)
a)	Name of receiving water into which discharge will occur: Charles River
Sta	te Water Quality Classification: Class B Freshwater: Marine Water:
b)	Describe the discharge activities for which the owner/applicant is seeking coverage:
1	1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
	2. Short-term or long-term dewatering of foundation sumps.
	3. Other.
c)	Number of outfalls 1
For	r each outfall:
d)	Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 72000 GPD Average Monthly Flow 28800 GPD
e.)	What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH <u>83</u> Min pH <u>65</u>
f.)	Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. Groundwater, See attached report
g.)	What treatment does the wastewater receive prior to discharge? Sedimentation Tank, See attached report
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 \checkmark No \sim
	If yes, approximate start date of dewatering April 24, 2014 (covered under previous permit) approximate end date of dewatering December 20, 2015
• `	
i.)	Latitude and longitude of each discharge within 100 feet (See <u>http://www.epa.gov/tri/report/siting_tool</u>): Outfall 1: long. <u>-71.1248</u> lat. <u>42.3716</u> ; 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 VIII for equations and additional information)

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

 $\label{eq:product} Appendix \ V-NPDES \ Dewatering \ General \ Permit$

Page 7 of 9

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.

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

a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met? A

b) Please attach documentation with your NOI supporting your response. Please see Appendix IV for acceptable documentation

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

a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes 🗸 No ; Question 2: No Yes

b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No ____ If yes, attach the results of the consultation(s).

c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met? 🔼

d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes _____ or No _√_ If yes, provide that name of the Indian Tribe associated with the property. ______

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

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

Page 8 of 9

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: 112-116 Mount Auburn Street		
Operator signature: Jun Meg		
Print Full Name and Title: Davico Messino	V.P	
Date: 5/22/15		

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.



Trust Resources List

This resource list is to be used for planning purposes only — it is not an official species list.

Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:

New England Ecological Services Field Office 70 COMMERCIAL STREET, SUITE 300 CONCORD, NH 3301 (603) 223-2541 http://www.fws.gov/newengland

Project Name: 112 Mount Auburn Street



Trust Resources List

Project Location Map:



Project Counties:

Middlesex, MA | Suffolk, MA

Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):

MULTIPOLYGON (((-71.1268641 42.3721048, -71.1258555 42.3724694, -71.1246065 42.3712822, -71.1232906 42.3693167, -71.124653 42.3688856, -71.1252753 42.3693929, -71.126434 42.3709306, -71.1264769 42.3714855, -71.1268641 42.3721048)))

Project Type:

Development



Trust Resources List

Endangered Species Act Species List (<u>USFWS Endangered Species Program</u>). There are no listed species found within the vicinity of your project.

Critical habitats within your project area:

There are no critical habitats within your project area.

FWS National Wildlife Refuges (<u>USFWS National Wildlife Refuges Program</u>).

There are no refuges found within the vicinity of your project.

FWS Migratory Birds (USFWS Migratory Bird Program).

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: http://www.fws.gov/migratorybirds/RegulationsandPolicies.html.

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to: <u>http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BCC.html</u>.

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tool links in the Bird Conservation Tools section at: <u>http://www.fws.gov/migratorybirds/CCMB2.htm</u>.

For information about conservation measures that help avoid or minimize impacts to birds, please visit: <u>http://www.fws.gov/migratorybirds/CCMB2.htm</u>.



Trust Resources List

Migratory birds of concern that may be affected by your project:

There are **19** birds on your Migratory birds of concern list. The underlying data layers used to generate the migratory bird list of concern will continue to be updated regularly as new and better information is obtained. User feedback is one method of identifying any needed improvements. Therefore, users are encouraged to submit comments about any questions regarding species ranges (e.g., a bird on the USFWS BCC list you know does not occur in the specified location appears on the list, or a BCC species that you know does occur there is not appearing on the list). Comments should be sent to the ECOS Help Desk.

Species Name	Bird of Conservation Concern (BCC)	S p e c i e s Profile	Seasonal Occurrence in Project Area
American Oystercatcher (Haematopus palliatus)	Yes species info Breeding		Breeding
American bittern (<i>Botaurus lentiginosus</i>)	Yes species info Breeding		Breeding
Bald eagle (Haliaeetus leucocephalus)	Yes	species info	Year-round
Black-billed Cuckoo (Coccyzus erythropthalmus)	Yes	species info	Breeding
Blue-winged Warbler (Vermivora pinus)	Yes	species info	Breeding
Canada Warbler (<i>Wilsonia</i> canadensis)	Yes	species info	Breeding
Hudsonian Godwit (<i>Limosa</i> haemastica)	Yes	species info	Migrating
Least Bittern (Ixobrychus exilis)	Yes	species info	Breeding
Peregrine Falcon (Falco peregrinus)	Yes	species info	Breeding
Pied-billed Grebe (Podilymbus podiceps)	Yes	species info	Breeding
Prairie Warbler (Dendroica discolor)	Yes	species info	Breeding
Purple Sandpiper (<i>Calidris maritima</i>)	Yes	species info	Wintering
Saltmarsh Sparrow (Ammodramus caudacutus)	Yes	species info	Breeding



Trust Resources List

Seaside Sparrow (Ammodramus maritimus)	Yes	species info	Breeding
Short-eared Owl (Asio flammeus)	Yes	species info	Wintering
Snowy Egret (Egretta thula)	Yes	species info	Breeding
Upland Sandpiper (Bartramia longicauda)	Yes	<u>species info</u>	Breeding
Wood Thrush (Hylocichla mustelina)	Yes	<u>species info</u>	Breeding
Worm eating Warbler (<i>Helmitheros vermivorum</i>)	Yes	species info	Breeding

NWI Wetlands (<u>USFWS National Wetlands Inventory</u>).

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate <u>U.S. Army Corps of Engineers District</u>.

Data Limitations, Exclusions and Precautions

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.



Trust Resources List

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Exclusions - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Precautions - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

The following wetland types intersect your project area in one or more locations:

Wetland Types	NWI Classification Code	Total Acres
Riverine	<u>R2UBH</u>	209.0445



NOTICE OF INTENT FOR DISCHARGE UNDER MASSACHUSETTS DEWATERING GENERAL PERMIT MAG070000

112-116 MOUNT AUBURN STREET

CAMBRIDGE MASSACHUSETTS

to

U.S. Environmental Protection Agency, Massachusetts Department of Environmental Protection

Project No. 4828

January 15, 2013



January 15, 2013

U.S Environmental Protection Agency Dewatering GP Processing Municipal Assistance Unit (CMU) 1 Congress Street, Suite 1100 Boston, MA 02114-2023

Attention: DGP Processing

Reference: 112-116 Mount Auburn Street; Cambridge, Massachusetts Notice of Intent for Construction Dewatering Discharge Under Massachusetts General Discharge MAG070000

Ladies and Gentlemen:

The purpose of this letter report is to provide a summary of the site and groundwater quality information in support of an application for approval from the U.S. Environmental Protection Agency (EPA) for the temporary discharge of groundwater into the Charles River via a storm drain system during construction at the above referenced site. Refer to **Figure 1** Project Location Plan for the general site locus.

These services were performed and this report was prepared in accordance with the authorization of Conductor's Building, LLC. These services are subject to the limitations contained in **Appendix A**.

The development parcel occupies an approximate 160-foot by 65-foot rectangular footprint located on the east end of the block formed by Mount Auburn Street to the north, Bennett Street to the south, and a Massachusetts Bay Transportation Authority (MBTA) Busway to the east. To the west, the site is bounded by a 4-story residential structure. The northern portion of the development parcel is occupied by a 2 to 4-story structure with a partial basement, which will be demolished as part of the proposed development. The southern portion of the development parcel is occupied by a one-story building that contains an MBTA Transformer Facility which has a one-level basement in which the concrete floor slab is at Elevation +14.2. The existing ground surface surrounding the site slopes down gradually from about Elevation +25 along Mount Auburn Street to about Elevation +23 along Bennett Street. Elevations cited herein are in feet and are referenced to the Cambridge City Base (CCB) which is 10.84 feet below the National Geodetic Vertical Datum (NGVD). Existing site conditions are shown on the attached **Subsurface Exploration Plan, Figure 2**.

The scope of the proposed development includes the demolition of the vacant building that occupies the northern portion of the development parcel and the construction of a seven-story steel-framed structure occupying the entire parcel. The existing building that contains the MBTA Transformer Facility will remain in-place and the new structure will span over the existing building. The proposed structure will have a partial basement occupying the northern portion of the site having its lowest level slab at Elevation +14.2 to match that of the basement level of the adjacent MBTA Transformer Facility.

Excavation within the proposed building footprint will extend to a depth of approximately 15 feet below the current ground surface and will require temporary excavation support. The final excavations will also extend approximately 4 to 5 feet below the observed groundwater level. Hence, construction dewatering will be required within the excavation area to allow the construction of the below-grade portion of the concrete slab and foundations.

GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERS 2269 Massachusetts Avenue Cambridge, Massachusetts 02140 617 / 868-1420



US EPA NOI, 112-116 Mount Auburn Street; Cambridge Page 2, January 15, 2013

Construction dewatering will require the discharge of collected groundwater into the storm drain system under the requested Dewatering General Permit (DGP). A review of available plans on the City of Cambridge on-line GIS database indicates that dedicated storm drains are located beneath Bennett Street on the southern side of the site. Specifically, there is a 15-inch storm drain line which connects to a 34-inch by 54-inch storm drain line beneath University Road that flows southwest and discharges into the Charles River, a Class B water body. The location of the relevant catch basins with relation to the site are indicated on **Figure 2**. The flow path of the discharge is shown on a plan provided by the City of Cambridge on-line GIS database which is included as **Figure 3**.

Given that the proposed scope of construction includes excavation for the proposed building foundation, a sedimentation tank, 5,000-gallons in capacity, will be incorporated into the discharge system in order to meet allowable discharge limits for total suspended solids (TSS) established by the DGP. It is estimated that continuous groundwater discharge required during the foundation construction will be on the order of 20 to 50 gallons per minute (gpm). This estimate of discharge does not include surface runoff which will be removed from the excavation during the limited duration of a rain storm and shortly thereafter. A schematic of the treatment system is shown on **Figure 4**.

To document the effectiveness of the above treatment system, samples of the discharge water will be obtained and tested for the presence of TSS prior to the start of discharge into the storm drain system. Should the pre-start up testing indicate that the levels of TSS in the effluent from the settling tank exceed the limits established under the DGP, additional filtration of the effluent will be implemented prior to discharge.

In conclusion, it is our opinion that groundwater at the site is acceptable for discharge into the storm drain system and ultimately into the Charles River under a Dewatering General Permit. Sampling and analysis of the effluent will be carried out in accordance with the terms of Dewatering General Permit.

Supplemental information attached to this letter in support of the DGP includes the following;

- Notice of Intent and Transmittal Form for Permit Application (Appendix B);
- A summary of groundwater analysis (**Appendix C, Table 1**);
- A review of adjacent and nearby DEP-listed disposal sites (Attachment D);
- A review of Areas of Critical Concern and Endangered and Threatened Species (Appendix E); and
- A review of National Historic Places (Attachment F).



US EPA NOI, 112-116 Mount Auburn Street; Cambridge Page 3, January 15, 2013

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

Very truly yours,

McPHAIL ASSOCIATES, LLC

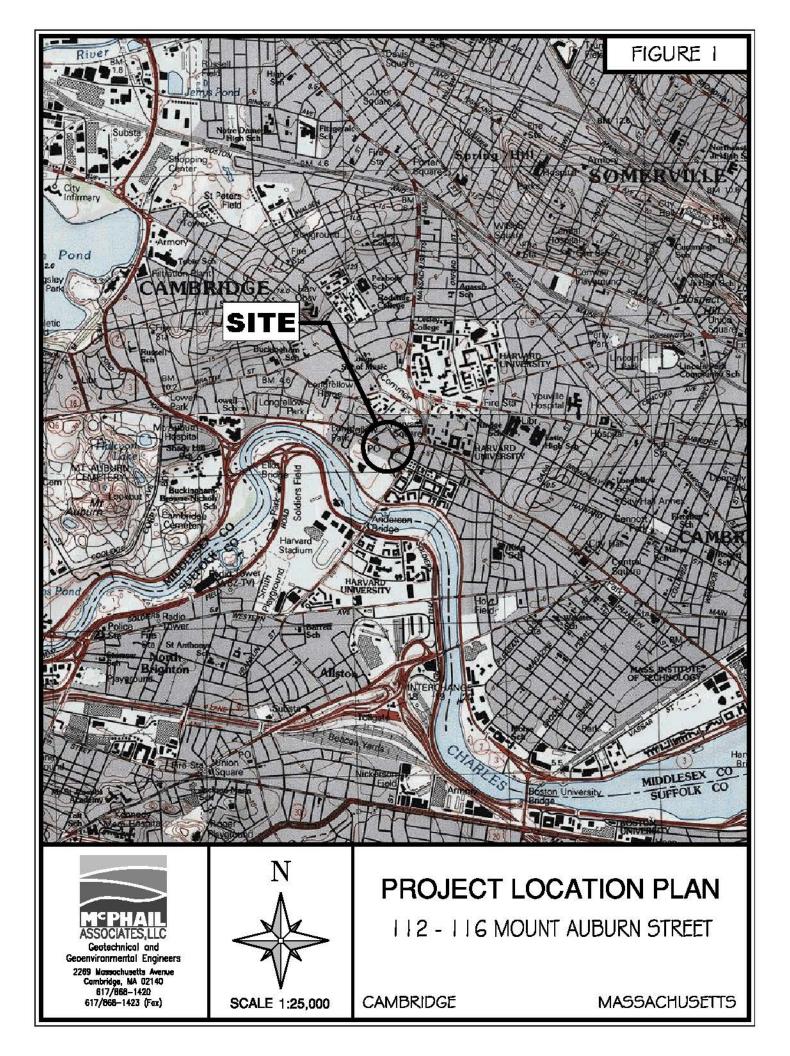
in Benjamin E. Downing Ambrose J. Donovan, P.E., L.S.P.

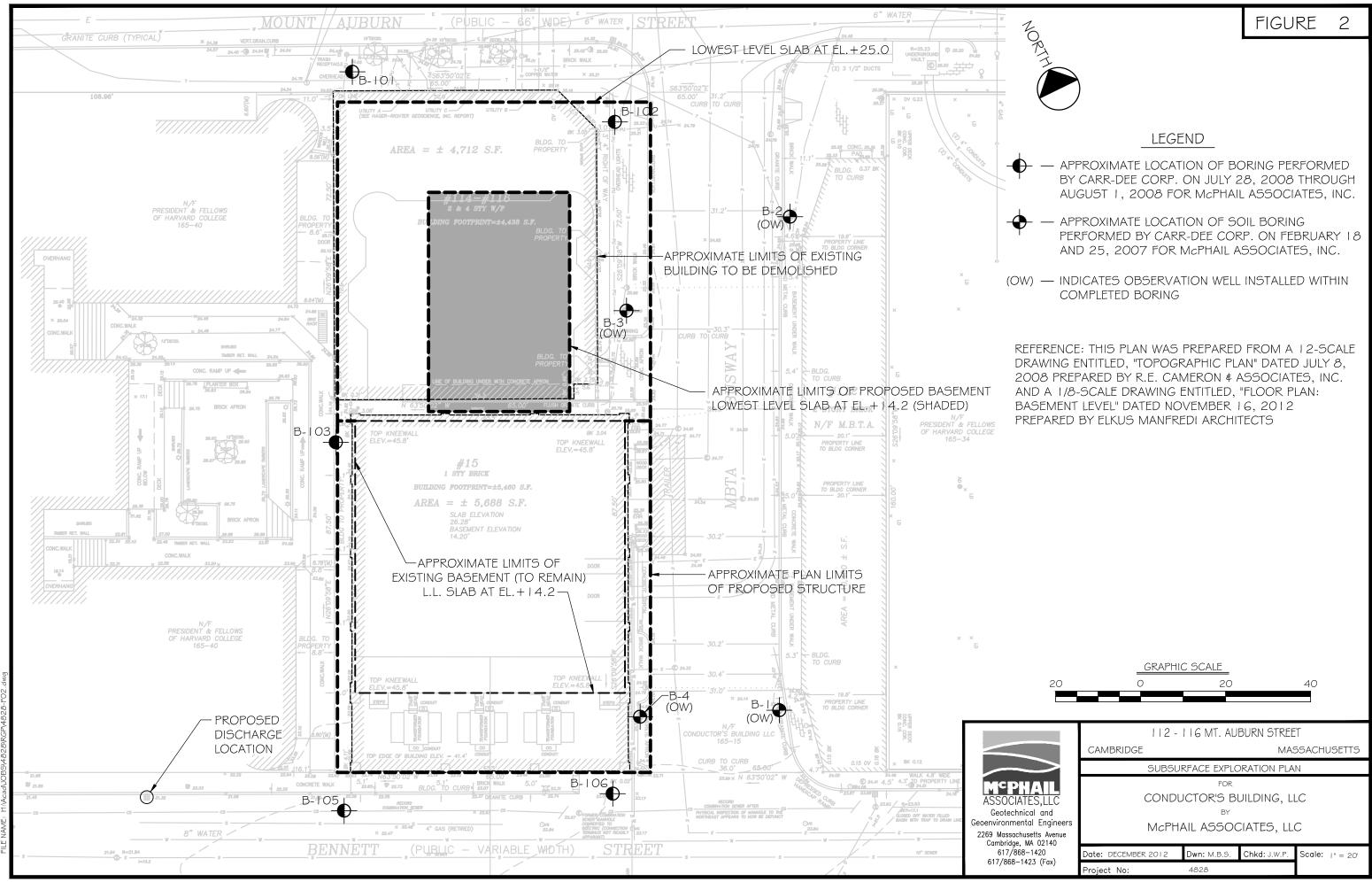
Enclosures

c: Conductor's Building, LLC (Mr. Darren Messina) CSL Consulting, LLC (Mr. Chad Siebel)

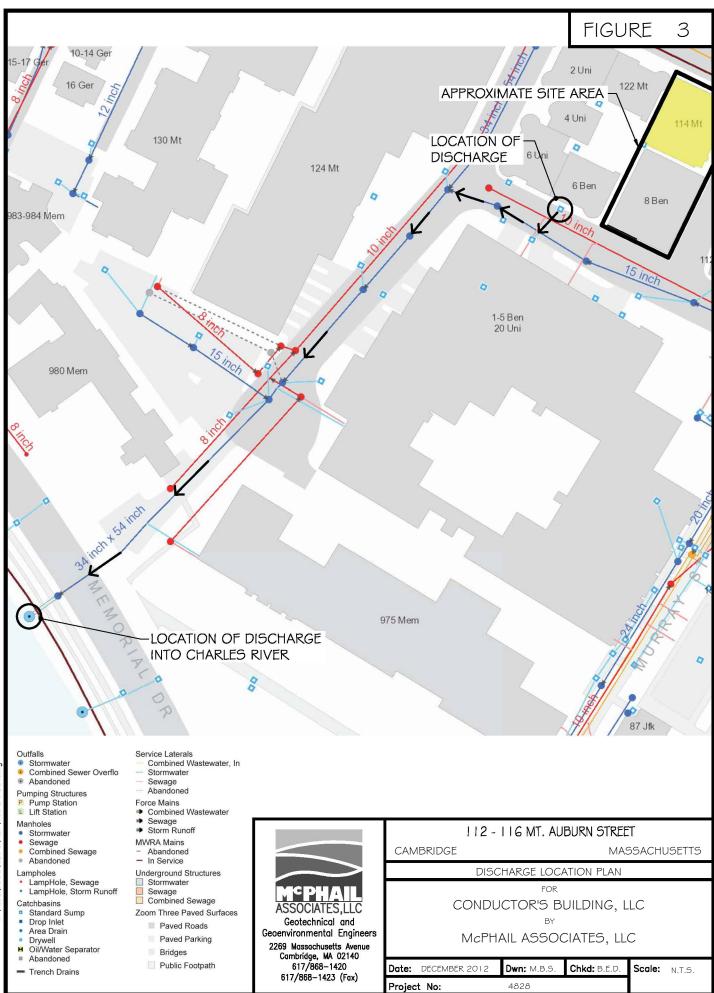
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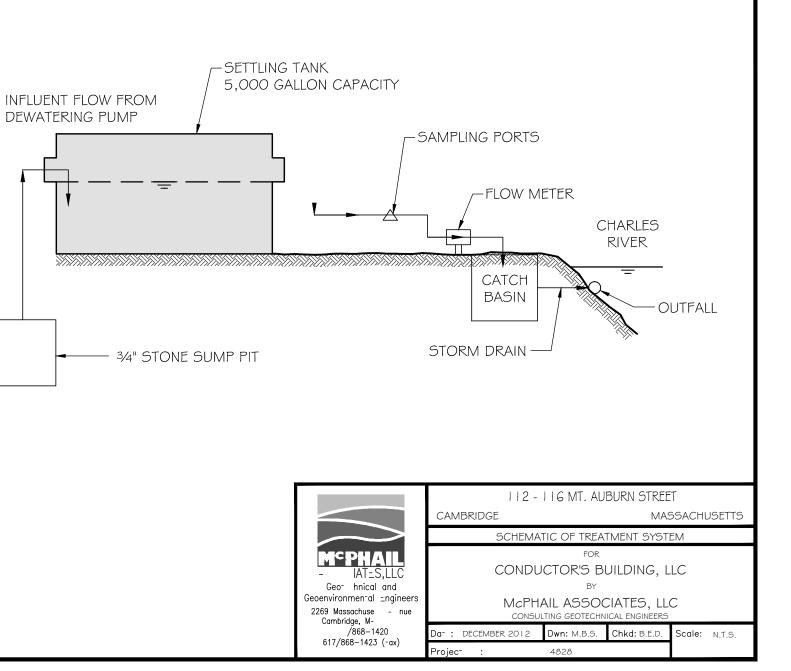














APPENDIX A

LIMITATIONS

The purpose of this report is to present the results of testing of groundwater samples obtained from a monitoring well on the property located at 112-116 Mount Auburn Street in Cambridge, Massachusetts, in support of an application for approval of construction site dewatering discharge into surface waters of the Commonwealth of Massachusetts under EPA's Massachusetts Dewatering General Permit MAG070000.

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

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

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

This report and application have been prepared on behalf of and for the exclusive use of Conductor's Building, LLC. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party nor used in whole or in part by any other party without prior written consent of McPhail Associates, LLC.



APPENDIX B

Notice of Intent Transmittal Form

II. Suggested Notice of Intent (NOI) Form

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

a) Name of facility:	facility: Mailing Address for the Facility:				
112-116 Mount Auburn Street	112 Mount Auburn Street, Cambridge, MA 02138				
b) Location Address of the Facility (if different from mailing	Facility Location Type of Business:				
address):		Construction Site			
	longitude: <u>-71.122502</u> latitude: <u>42.372915</u>	Facility SIC codes:			
c) Name of facility owner: <u>Conductor's Building, LLC</u>	Owner's email: dmes	sina@carpenterholdings.com			
Owner's Tel #: <u>617-864-2800</u>	Owner's Fax #:				
Address of owner (if different from facility address)					
Carpenter & Company, Inc., Charles Square, 20 University Ro	ad, Cambridge, MA 02138				
Owner is (check one): 1. Federal 2. State 3. Tribal	4. Private4. Other	(Describe)			
Legal name of Operator, if not owner:					
Operator Contact Name: Darren Messina					
Operator Tel Number: <u>(617)</u> 864-2800 Fax N	Number:				
Operator's email: dmessina@carpenterholdings.com					
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:					
 Has a prior NPDES permit been granted for the discharge? Yes No If Yes, Permit Number: Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes No 					
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes \checkmark No 3. Is the facility covered by an individual NPDES permit? Yes No_ \checkmark If Yes, Permit Number					
4. Is there a pending application on file with EPA for this discharge? Yes No If Yes, date of submittal:					

	large information. Please provide information about the discharge, (attaching additional sneets as needed)
a)	Name of receiving water into which discharge will occur: Charles River te Water Quality Classification: class B Freshwater: X Marine Water:
Sta	te Water Quality Classification: <u>Class B</u> Freshwater: <u>X</u> Marine Water:
	 Describe the discharge activities for which the owner/applicant is seeking coverage: Construction dewatering of groundwater intrusion and/or storm water accumulation. Short-term or long-term dewatering of foundation sumps. Other.
c)	Number of outfalls 1
For	each outfall:
d)	Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow <u>72000</u> GPD 28800 Average Monthly Flow <u>GPD</u>
e)	What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH <u>8.5</u> Min pH <u>6.5</u>
e)	what is the maximum and minimum monting pri of the discharge (in s.u.): what pri 8.5 with pri 0.5
f)	Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. Groundwater, see attached report
g)	What treatment does the wastewater receive prior to discharge? Sedimentation Settling Tank, see attached report
h)	Is the discharge continuous? Yes \checkmark 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 (Is t	I), number of days/year there is a dischargeNo If yes, approximate start date of dewatering <u>March 1, 2013</u> approximate end date of dewatering <u>August 30, 2013</u> he discharge temporary?
i)	Latitude and longitude of each discharge within 100 feet (See <u>http://www.epa.gov/tri/report/siting_tool</u>): Outfall 1: long. <u>-71.1248</u> lat. <u>42.3716</u> ; 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
(Se	ee 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)).
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

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

- a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____No____
- b) Has any consultation with the federal services been completed ? Yes No 4
- c) Is consultation underway? Yes ____ No_✓__
- d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____ or written concurrence_____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.
- e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D,or E) have you met? <u>A</u>
- f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

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

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No 🖌
- 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 requirements listed in Appendix 3, Section C (1,2 o3) have you met? 1_____

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: 112-116 Mount Auburn Street Operator signature: Jane Manie Title: Uce Present 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.



1. Please type or print. A separate

Enter your transmittal number

X254119

Transmittal Number

Your unique Transmittal Number can be accessed online: http://www.mass.gov/dep/counter/trasmfrm.shtml or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection

Transmittal Form must be completed for each permit application.	
2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to:	B
DEP. P.O. Box	

3. Three copies of this form will be needed.

4062, Boston, MA

02211.

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

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

> DEP P.O. Box 4062 Boston, MA 02211

* Note: For BWSC Permits, enter the LSP.

-	mit Information		Dewatering Ge	neral Permit	
	ermit Code: 7 or 8 character code from perm	it instructions	2. Name of Permit		
Т	emporary Construction Dewatering				
3. T	ype of Project or Activity				
B. Ap	plicant Information – Firm	n or Individua	l		
Co	onductor's Building, LLC				
1. N	ame of Firm - Or, if party needing this ap	proval is an individua	l enter name below:		
2. L	ast Name of Individual	3. First	Name of Individual		4. MI
с	/o Carpenter & Company, Inc., 20 U	niversity Road			
5. S	treet Address				
	ambridge	MA	02138	617-864-2800	
	ity/Town arren Messina	7. State	8. Zip Code	9. Telephone #	10. Ext. #
	Contact Person		12. e-mail address	(optional)	
11	2-116 Mount Auburn Street	equiring App	roval		
11 1. N 1	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street	equiring Appi	roval		
11 1. N 1 [*] 2. S	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address				
11 1. N 1 [.] 2. S	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge		02138		
11 1. N 1 [.] 2. S	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address			6. Telephone #	7. Ext. #
11 1. N 1' 2. S (3. C	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge	MA 4. State	02138		
11 1. N 2. S (3. C 8. D	2-116 Mount Auburn Street ame of Facility, Site Or Individual I2 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known)	MA 4. State 9. Federa	02138 5. Zip Code		
11 1. N 2. S <u>()</u> 3. C 8. D D. Ap	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town	MA 4. State 9. Federa	02138 5. Zip Code		
11 1. N 1' 2. S (3. C 8. D D. Ap 1. N	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual	MA 4. State 9. Federa	02138 5. Zip Code		
11 1. N 2. S (3. C 8. D D. Ap 1. N	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual 2269 Massachusetts Avenue	MA 4. State 9. Federa	02138 5. Zip Code		
11 1. N 2. S <u>C</u> 3. C 8. D D. Ap 1. N <u>2</u> . A	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual 2269 Massachusetts Avenue ddress	MA 4. State 9. Federa	02138 5. Zip Code I I.D. Number (if Kno Section B)*	own) 10. BWSC Track	
11 1. N 1' 2. S (3. C 3. C 8. D D. Ap 1. N 2 2. A	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual 269 Massachusetts Avenue ddress Cambridge	MA 4. State 9. Federa lifferent from MA	02138 5. Zip Code I I.D. Number (if Kno Section B)* 02140	own) 10. BWSC Track 617-349-7323	ing # (if Known)
11 1. N 2. S <u>0</u> 3. C B. D D. Ap 1. N <u>2</u> 2. A <u>3. C</u>	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual 2269 Massachusetts Avenue ddress Cambridge ity/Town	MA 4. State 9. Federa	02138 5. Zip Code I I.D. Number (if Kno Section B)*	own) 10. BWSC Track	
11 1. N 1. N 2. S (3. C 8. D D. Ap 1. N 2. A 3. C 3. C B. D	2-116 Mount Auburn Street ame of Facility, Site Or Individual 12 Mount Auburn Street treet Address Cambridge ity/Town EP Facility Number (if Known) plication Prepared by (if c McPhail Associates, LLC ame of Firm Or Individual 269 Massachusetts Avenue ddress Cambridge	MA 4. State 9. Federa lifferent from MA	02138 5. Zip Code I I.D. Number (if Kno Section B)* 02140	own) 10. BWSC Track 617-349-7323 6. Telephone #	ing # (if Known)

Is this project subject to MEPA review? 1. If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

F. Amount Due

DEP Use Only	Special Provisions:		
Demois		wn or municipal housing authority)(state agency if fe	,
Permit No:		ptions for BWSC permits, regardless of applicant sta	
		payment extensions according to 310 CMR 4.04(3)	(C).
Rec'd Date:		Project (according to 310 CMR 4.05 and 4.10).	
	4. 🛛 Homeowner (accord	ing to 310 CMR 4.02).	
Reviewer:	31235	\$385.00	1/
			D /

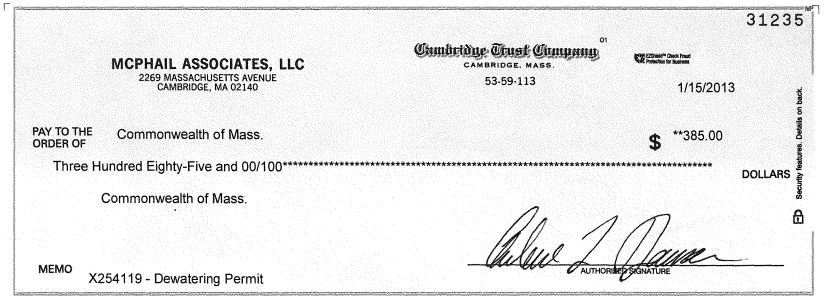
1/15/2013

Check Number

Dollar Amount

Date

EOEA File Number



"°O31235" ⊹"°O11300595". "SO552801"



APPENDIX C

RESULTS OF RECENT GROUNDWATER ANALYSIS

On December 11, 2012, McPhail Associates, LLC obtained a sample of groundwater from on-site monitoring well B-3 (OW) and submitted the sample to a certified laboratory for analysis for the presence of paramaters required under the EPA's Dewatering General Permit (DGP) application, including pH, total suspended solids (TSS), total residual chlorine, total petroleum hydrocarbons (TPH), cyanide, volatile organic compounds (VOCs) including total benzene, toluene, ethylbenzene and xylenes (BTEX), polyaromatic hydrocarbons (PAHs), total phenols, PCBs, and total recoverable metals.

The results of the laboratory analysis are summarized in Table 1 included in Appendix C. The results of laboratory analysis indicate the following:

- 1. **pH**: The tested sample exhibited pH levels of 7.2 Standard Units (S.U.) which is within the recommended range of 6.5 to 8.5 S.U. for discharge into freshwater.
- 2. TSS: Total suspended solids (TSS) was detected in the tested sample at a concentration of 170 milligram per liter (mg/l), which is in excess of the upper limit of 30 mg/l established by the EPA for discharge into surface water. The detected level of TSS is considered to be attributable to the disturbance of suspended solids in the monitoring well during development of the well and subsequent sampling. However, it should be noted that groundwater will be pre-treated by passing the water through a sediment tank(s) prior to discharge in order to reduce the concentration of TSS in the effluent.
- 3. **VOCs**: Laboratory analysis of the groundwater sample indicated no detectable levels of VOCs
- 4. **TPH**: Laboratory analysis of the groundwater sample indicated no detectable levels of TPH.
- 5. PAHs and Total Phenols: The laboratory reported no detectable levels of Group I or Group II PAHs. Total Phenols were detected at a concentration of 50 ug/l, which is below the upper limit of 300 ug/l established by the EPA for discharge into surface water.
- 6. **PCBs:** The laboratory results indicated no detectable levels of PCBs.



- 7. **Cyanide**: Laboratory analysis of the groundwater sample indicated no detectable levels of cyanide above the method detection limit of 5 ug/l..
- 8. **Total Metals**: The laboratory reported no detectable levels of cadmium, chromium VI, mercury, selenium, or silver in the submitted samples of groundwater. Levels of antimony, arsenic, chromium III, copper, iron, lead, nickel, and zinc were reported at levels of 0.8 microgram per liter (ug/l), 1.0 ug/l, 5.2 ug/l, 8.1 ug/l, 4,100 ug/l, 5.7 ug/l, 4.3 ug/l and 22 ug/l, respectively. The detected levels of antimony, arsenic, chromium III, nickel and zinc are below the EPA effluent limits of 5.6 ug/l, 10 ug/l, 48.8 ug/l, 29 ug/l and 66.6 ug/l, respectively, for discharge to a freshwater body.

The detected levels of copper, iron and lead exceed the EPA effluent limits of 5.2 ug/l, 1,000 ug/l and 1.3 ug/l, respectively, for discharge into a freshwater body. A Dilution Factor (DF) was calculated for the detected levels pursuant to the procedure contained in MAG910000, Appendix V. The purpose of the DF calculation is to establish Total Recoverable Limits for metals, taking into consideration the anticipated dilution of the detected analyte upon discharge into the Charles River. The calculated DF was then used to find the appropriate Dilution Range Concentration (DRC) contained in MAG910000, Appendix IV. The Minimum Flow Rate calculated by the USGS Streamstats GIS database at the location of discharge into the Charles River for seven consecutive days with a recurrence interval of 10 years (7Q10 flow) is 24.5, thus resulting in a DF of 198. A DF over 100 corresponds to a dilution concentration of 520 ug/l, 5,000 ug/l and 132 ug/l for copper, iron and lead, respectively. Therefore, based on the calculation of the applicable dilution factor, none of these concentrations exceed the applicable dilution concentrations for discharge into a freshwater body.

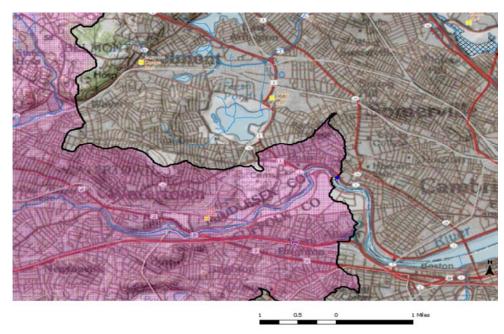
TABLE 1

ANALYTICAL TEST RESULTS--GROUNDWATER DECEMBER 2012

112-116 Mount Auburn Street; Cambridge, Massachusetts Project Number 4828

LOCATION	EPA	Total		B-3 (OW)
SAMPLING DATE	Effluent	Recoverable	Units	12/11/2012
LAB SAMPLE ID	Limits	Limits		L1222526-01
General Chemistry				
Solids, Total Suspended	30		mg/l	170
рН (Н)	6.5-8.5		SU	7.2
Chloride	Monitor		mg/l	1800
Chlorine, Total Residual	11		ug/l	ND(20)
TPH	5000		ug/l	ND(4400)
Phenolics, Total	300		ug/l	50
Cyanide, Total	5.2		ug/l	ND(5)
Total Metals				
Antimony, Total	5.6	141	ug/l	0.8
Arsenic, Total	10	540	ug/l	1
Cadmium, Total	0.2	20	ug/l	ND(0.2)
Chromium, Trivalent	48.8	1710	ug/l	5.2
Chromium, Hexavalent	11.4	1140	ug/l	ND(10)
Copper, Total	5.2	520	ug/l	8.1
Iron, Total	1000	5000	ug/l	4100
Lead, Total	1.3	132	ug/l	5.7
Mercury, Total	0.9	2.3	ug/l	ND(0.2)
Nickel, Total	29	2380	ug/l	4.3
Selenium, Total	5	408	ug/l	ND(5)
Silver, Total	1.2	115	ug/l	ND(0.4)
Zinc, Total	66.6	1480	ug/l	22
Volatile Organics				
Total VOCs			ug/l	ND
Semi-Volatile Organics				
Total SVOCs			ug/l	ND
PAHs				
Group I PAHs	10		ug/l	ND
Group II PAHs	10		ug/l	ND
Polycholorinated Bipheny	ls			
Total PCBs	0.000046		ug/l	ND





1/15/2013 9:46:45 AM

Explanation

- 🔶 NHDHGage
- NHDHDam
 - ▲ P
- ★ GlobalWatershedPoint
- Dendritic Stream Network
- streams
- GlobalWatershed
- ☆ Excludepoly

- Gaging Station, Continuous Record
- Low Flow, Partial Record
- Peak Flow, Partial Record
- Peak and Low Flow, Partial Record
- 🔺 Stage Only
- Low Flow, Partial Record, Stage
- Miscellaneous Record
- ▲ Unknown

U.S. Department of the Interior | U.S. Geological Survey URL: http://streamstatsags.cr.usgs.gov/ma_ss/default.aspx Page Contact Information: StreamStats Help Page Last Modified: 01/15/2013 11:39:46

Streamstats Status



Massachusetts StreamStats

Streamstats Ungaged Site Report

Date: Tue Jan 15 2013 09:43:41 Mountain Standard Time Site Location: Massachusetts NAD27 Latitude: 42.3714 (42 22 17) NAD27 Longitude: -71.1261 (-71 07 34) NAD83 Latitude: 42.3715 (42 22 18) NAD83 Longitude: -71.1256 (-71 07 32) ReachCode: 01090001000111 Measure: 42.17 Drainage Area: 281 mi2

Low Flows Basin Characteristics			
100% Statewide Low Flow (281 mi2)	Value	Value Regression Equation Va	
Parameter		Min	Max
Drainage Area (square miles)	281 (above max value 149)	1.61	149
Mean Basin Slope from 250K DEM (percent)	2.34	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.23	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Probability of Perennial Flow Basin Characteristics 100% Perennial Flow Probability (281 mi2)				
Parameter	Value	Regression Equation Valid Range		
rarameter		Min	Max	
Drainage Area (square miles)	281 (above max value 1.99)	0.01	1.99	
Percent Underlain By Sand And Gravel (percent)	47.57	0	100	
Percent Forest (percent)	42.24	0	100	
Massachusetts Region (dimensionless)	0	0	1	

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Low Flows Streamflow Statistics						
	Statistic Flow (ft ³ /s) Prediction Error		Equivalent percent) years of record	90-Percent Prediction Interval		
Statistic		Prediction Error (percent)		Minimum	Maximum	
D50	300					
D60	248					
D70	170					
D75	139					
D80	109					
D85	87.5					
D90	68.2					
D95	46.1					
D98	30.7					
D99	25.5					
M7D2Y	49.2					
AUGD50	93.7					
M7D10Y	24.5					

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi2, as errors beyond for basins beyond these bounds are unknown.

Probability of Perennial Flow Statistics			
Statistic	Value	Standard Error (percent)	
PROBPEREN	1		



ANALYTICAL REPORT

Lab Number:	L1222526
Client:	McPhail Associates
	2269 Massachusetts Avenue
	Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	114 MOUNT AUBURN STREET
Project Number:	4828.9.00
Report Date:	12/18/12

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), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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



Project Name:114 MOUNT AUBURN STREETProject Number:4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Alpha	
Sample	ID

L1222526-01

Client ID B-3 (OW) Sample Location

CAMBRIDGE, MA

Collection Date/Time

12/11/12 12:00



Project Name:114 MOUNT AUBURN STREETProject Number:4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the 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 free of charge for 30 days from the date the project is completed. After 30 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.

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



Project Name: 114 MOUNT AUBURN STREET Project Number: 4828.9.00 Lab Number: L1222526 Report Date: 12/18/12

Case Narrative (continued)

Sample Receipt

The analyses of Hexavalent Chromium and Total Residual Chlorine were received with the method required holding times exceeded and were performed at the client's request.

The sample was received without the container for Total Cyanide analysis. An aliquot was taken from an unpreserved container and preserved appropriately.

Semivolatile Organics

The WG579686-2/-3 LCS/LCSD recoveries, associated with L1222526-01, are below the acceptance criteria for Benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte.

Phenolics, Total

The WG579271-3 Laboratory Duplicate RPD (50%), performed on L1222526-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

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.

Elly Stendow Kelly Stenstrom

Authorized Signature:

Title: Technical Director/Representative

Date: 12/18/12



ORGANICS



VOLATILES



		Serial_No	:12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	SAMPLE RES	SULTS	
Lab ID:	L1222526-01	Date Collected:	12/11/12 12:00
Client ID:	B-3 (OW)	Date Received:	12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/14/12 17:55		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough	n Lab					
Methylene chloride	ND		ug/l	3.0		1
1,1-Dichloroethane	ND		ug/l	0.75		1
Chloroform	ND		ug/l	0.75		1
Carbon tetrachloride	ND		ug/l	0.50		1
1,2-Dichloropropane	ND		ug/l	1.8		1
Dibromochloromethane	ND		ug/l	0.50		1
1,1,2-Trichloroethane	ND		ug/l	0.75		1
Tetrachloroethene	ND		ug/l	0.50		1
Chlorobenzene	ND		ug/l	0.50		1
Trichlorofluoromethane	ND		ug/l	2.5		1
1,2-Dichloroethane	ND		ug/l	0.50		1
1,1,1-Trichloroethane	ND		ug/l	0.50		1
Bromodichloromethane	ND		ug/l	0.50		1
trans-1,3-Dichloropropene	ND		ug/l	0.50		1
cis-1,3-Dichloropropene	ND		ug/l	0.50		1
1,1-Dichloropropene	ND		ug/l	2.5		1
Bromoform	ND		ug/l	2.0		1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50		1
Benzene	ND		ug/l	0.50		1
Toluene	ND		ug/l	0.75		1
Ethylbenzene	ND		ug/l	0.50		1
Chloromethane	ND		ug/l	2.5		1
Bromomethane	ND		ug/l	1.0		1
Vinyl chloride	ND		ug/l	1.0		1
Chloroethane	ND		ug/l	1.0		1
1,1-Dichloroethene	ND		ug/l	0.50		1
trans-1,2-Dichloroethene	ND		ug/l	0.75		1
Trichloroethene	ND		ug/l	0.50		1
1,2-Dichlorobenzene	ND		ug/l	2.5		1
1,3-Dichlorobenzene	ND		ug/l	2.5		1
1,4-Dichlorobenzene	ND		ug/l	2.5		1



					Serial_N	lo:12181	216:21
Project Name:	114 MOUNT AUBURN S	TREET		La	ab Number:	L1:	222526
Project Number:	4828.9.00			R	eport Date:	12	/18/12
-		SAMPLE R	ESULTS		•		
Lab ID:	L1222526-01			Date	e Collected:	12/1	1/12 12:00
Client ID:	B-3 (OW)				e Received:		2/12
Sample Location:	CAMBRIDGE, MA			Fiel	d Prep:	Not	Specified
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics b	oy GC/MS - Westborough La	ab					
Methyl tert butyl ether		ND		ug/l	1.0		1
p/m-Xylene		ND		ug/l	1.0		1
o-Xylene		ND		ug/l	1.0		1
Xylenes, Total		ND		ug/l	1.0		1
cis-1,2-Dichloroethene		ND		ug/l	0.50		1
Dibromomethane		ND		ug/l	5.0		1
1,4-Dichlorobutane		ND		ug/l	5.0		1
1,2,3-Trichloropropane		ND		ug/l	5.0		1
Styrene		ND		ug/l	1.0		1
Dichlorodifluoromethan	e	ND		ug/l	5.0		1
Acetone		ND		ug/l	5.0		1
Carbon disulfide		ND		ug/l	5.0		1
2-Butanone		ND		ug/l	5.0		1
Vinyl acetate		ND		ug/l	5.0		1
4-Methyl-2-pentanone		ND		ug/l	5.0		1
2-Hexanone		ND		ug/l	5.0		1
Ethyl methacrylate		ND		ug/l	5.0		1
Acrylonitrile		ND		ug/l	5.0		1
Bromochloromethane		ND		ug/l	2.5		1
Tetrahydrofuran		ND		ug/l	5.0		1
2,2-Dichloropropane		ND		ug/l	2.5		1
1,2-Dibromoethane		ND		ug/l	2.0		1
1,3-Dichloropropane		ND		ug/l	2.5		1
1,1,1,2-Tetrachloroetha	ine	ND		ug/l	0.50		1
Bromobenzene		ND		ug/l	2.5		1
n-Butylbenzene		ND		ug/l	0.50		1
sec-Butylbenzene		ND		ug/l	0.50		1
tert-Butylbenzene		ND		ug/l	2.5		1
o-Chlorotoluene		ND		ug/l	2.5		1
p-Chlorotoluene		ND		ug/l	2.5		1
1,2-Dibromo-3-chloropr	opane	ND		ug/l	2.5		1
Hexachlorobutadiene		ND		ug/l	0.50		1
Isopropylbenzene		ND		ug/l	0.50		1
p-Isopropyltoluene		ND		ug/l	0.50		1
Naphthalene		ND		ug/l	2.5		1
n-Propylbenzene		ND		ug/l	0.50		1
1,2,3-Trichlorobenzene		ND		ug/l	2.5		1
1,2,4-Trichlorobenzene		ND		ug/l	2.5		1
1,3,5-Trimethylbenzene	3	ND		ug/l	2.5		1



				Serial_No:12181216:21			
Project Name:	114 MOUNT AUBURN ST	REET		La	b Number:	L1	222526
Project Number:	4828.9.00			Re	port Date:	12	/18/12
		SAMPLE F	RESULTS				
Lab ID:	L1222526-01			Date	Collected:	12/1	1/12 12:00
Client ID:	B-3 (OW)			Date	Received:	12/1	2/12
Sample Location:	CAMBRIDGE, MA			Field	l Prep:	Not	Specified
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics b	y GC/MS - Westborough La	ıb					
1,2,4-Trimethylbenzene		ND		ug/l	2.5		1
trans-1,4-Dichloro-2-but	iene	ND		ug/l	2.5		1
Ethyl ether		ND		ug/l	2.5		1
Tert-Butyl Alcohol		ND		ug/l	10		1
Tertiary-Amyl Methyl Et	her	ND		ug/l	2.0		1
				Accontanc			

			Acceptance	
Surrogate	% Recovery	Qualifier	Criteria	
1,2-Dichloroethane-d4	100		70-130	
Toluene-d8	104		70-130	
4-Bromofluorobenzene	98		70-130	
Dibromofluoromethane	95		70-130	



		Serial_No:12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number: L1222526
Project Number:	4828.9.00	Report Date: 12/18/12
	SAMPLE RESULTS	
Lab ID:	L1222526-01	Date Collected: 12/11/12 12:00
Client ID:	B-3 (OW)	Date Received: 12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep: Not Specified
Matrix:	Water	
Analytical Method:	1,8260C-SIM(M)	
Analytical Date:	12/14/12 17:55	
Analyst:	MM	

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS-SIM - Westborough	Lab					
1,4-Dioxane	ND		ug/l	3.0		1
.,			3,.			•



		Serial_No	:12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	SAMPLE RESULTS		
Lab ID:	L1222526-01	Date Collected:	12/11/12 12:00
Client ID:	B-3 (OW)	Date Received:	12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	12/17/12 10:30
Analytical Date:	12/17/12 13:53		
Analyst:	SH		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Microextractables by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010		1



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis		

Analytical Method:	1,8260C-SIM(M)
Analytical Date:	12/14/12 11:24
Analyst:	MM

Parameter	Result	Qualifier	Units	RL	MDL	
Volatile Organics by GC/MS-SIM	I - Westboroug	h Lab for sar	mple(s): 01	1 Batch:	WG579566-3	
1,4-Dioxane	ND		ug/l	3.0		



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4

4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Analytical Method:	1,8260C
Analytical Date:	12/14/12 08:10
Analyst:	MM

arameter	Result	Qualifier	Units		RL	MDL
olatile Organics by GC/MS	- Westborough La	b for sample(s):	01	Batch:	WG579581-	3
Methylene chloride	ND		ug/l		3.0	
1,1-Dichloroethane	ND		ug/l		0.75	
Chloroform	ND		ug/l		0.75	
Carbon tetrachloride	ND		ug/l		0.50	
1,2-Dichloropropane	ND		ug/l		1.8	
Dibromochloromethane	ND		ug/l		0.50	
1,1,2-Trichloroethane	ND		ug/l		0.75	
Tetrachloroethene	ND		ug/l		0.50	
Chlorobenzene	ND		ug/l		0.50	
Trichlorofluoromethane	ND		ug/l		2.5	
1,2-Dichloroethane	ND		ug/l		0.50	
1,1,1-Trichloroethane	ND		ug/l		0.50	
Bromodichloromethane	ND		ug/l		0.50	
trans-1,3-Dichloropropene	ND		ug/l		0.50	
cis-1,3-Dichloropropene	ND		ug/l		0.50	
1,1-Dichloropropene	ND		ug/l		2.5	
Bromoform	ND		ug/l		2.0	
1,1,2,2-Tetrachloroethane	ND		ug/l		0.50	
Benzene	ND		ug/l		0.50	
Toluene	ND		ug/l		0.75	
Ethylbenzene	ND		ug/l		0.50	
Chloromethane	ND		ug/l		2.5	
Bromomethane	ND		ug/l		1.0	
Vinyl chloride	ND		ug/l		1.0	
Chloroethane	ND		ug/l		1.0	
1,1-Dichloroethene	ND		ug/l		0.50	
trans-1,2-Dichloroethene	ND		ug/l		0.75	
Trichloroethene	ND		ug/l		0.50	
1,2-Dichlorobenzene	ND		ug/l		2.5	
1,3-Dichlorobenzene	ND		ug/l		2.5	
1,4-Dichlorobenzene	ND		ug/l		2.5	



Project Name: 114 MOUNT AUBURN STREET

Project Number: 482

4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Analytical Method:	1,8260C
Analytical Date:	12/14/12 08:10
Analyst:	MM

arameter	Result	Qualifier	Units		RL	MDL
olatile Organics by GC/MS - \	Nestborough La	b for sample(s):	01	Batch:	WG579581-3	3
Methyl tert butyl ether	ND		ug/l		1.0	
p/m-Xylene	ND		ug/l		1.0	
o-Xylene	ND		ug/l		1.0	
Xylenes, Total	ND		ug/l		1.0	
cis-1,2-Dichloroethene	ND		ug/l		0.50	
Dibromomethane	ND		ug/l		5.0	
1,4-Dichlorobutane	ND		ug/l		5.0	
1,2,3-Trichloropropane	ND		ug/l		5.0	
Styrene	ND		ug/l		1.0	
Dichlorodifluoromethane	ND		ug/l		5.0	
Acetone	ND		ug/l		5.0	
Carbon disulfide	ND		ug/l		5.0	
2-Butanone	ND		ug/l		5.0	
Vinyl acetate	ND		ug/l		5.0	
4-Methyl-2-pentanone	ND		ug/l		5.0	
2-Hexanone	ND		ug/l		5.0	
Ethyl methacrylate	ND		ug/l		5.0	
Acrylonitrile	ND		ug/l		5.0	
Bromochloromethane	ND		ug/l		2.5	
Tetrahydrofuran	ND		ug/l		5.0	
2,2-Dichloropropane	ND		ug/l		2.5	
1,2-Dibromoethane	ND		ug/l		2.0	
1,3-Dichloropropane	ND		ug/l		2.5	
1,1,1,2-Tetrachloroethane	ND		ug/l		0.50	
Bromobenzene	ND		ug/l		2.5	
n-Butylbenzene	ND		ug/l		0.50	
sec-Butylbenzene	ND		ug/l		0.50	
tert-Butylbenzene	ND		ug/l		2.5	
o-Chlorotoluene	ND		ug/l		2.5	
p-Chlorotoluene	ND		ug/l		2.5	
1,2-Dibromo-3-chloropropane	ND		ug/l		2.5	



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4

4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Analytical Method:	1,8260C
Analytical Date:	12/14/12 08:10
Analyst:	MM

arameter	Result	Qualifier	Units		RL	MDL
olatile Organics by GC/MS -	Westborough Lat	o for sample(s):	01	Batch:	WG579581-3	
Hexachlorobutadiene	ND		ug/l		0.50	
Isopropylbenzene	ND		ug/l		0.50	
p-Isopropyltoluene	ND		ug/l		0.50	
Naphthalene	ND		ug/l		2.5	
n-Propylbenzene	ND		ug/l		0.50	
1,2,3-Trichlorobenzene	ND		ug/l		2.5	
1,2,4-Trichlorobenzene	ND		ug/l		2.5	
1,3,5-Trimethylbenzene	ND		ug/l		2.5	
1,2,4-Trimethylbenzene	ND		ug/l		2.5	
trans-1,4-Dichloro-2-butene	ND		ug/l		2.5	
Ethyl ether	ND		ug/l		2.5	
Isopropyl Ether	ND		ug/l		2.0	
Tert-Butyl Alcohol	ND		ug/l		10	
Ethyl-Tert-Butyl-Ether	ND		ug/l		2.0	
Tertiary-Amyl Methyl Ether	ND		ug/l		2.0	

		1	Acceptance	
Surrogate	%Recovery	Qualifier	Criteria	
1,2-Dichloroethane-d4	94		70-130	
Toluene-d8	102		70-130	
4-Bromofluorobenzene	96		70-130	
Dibromofluoromethane	93		70-130	



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis Batch Quality Control		

Analytical Method:	14,504.1		
Analytical Date:	12/17/12 14:24	Extraction Date:	12/17/12 10:30
Analyst:	SH		

Parameter	Result	Qualifier	U	nits	RL	MDL
Microextractables by GC - West	borough Lab fo	or sample(s):	01	Batch:	WG579798-1	
1,2-Dibromoethane	ND		ι	ug/l	0.010	
1,2-Dibromo-3-chloropropane	ND		ι	ug/l	0.010	



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS-SIM - Westborou	igh Lab Associa	ated sample(s	s): 01 Batch:	WG5795	566-1 WG579566-2			
1,4-Dioxane	99		123		70-130	22		25

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579581-1 WG579581-2

Methylene chloride	92	90	70-130	2	20
1,1-Dichloroethane	88	85	70-130	3	20
Chloroform	88	84	70-130	5	20
Carbon tetrachloride	88	81	63-132	8	20
1,2-Dichloropropane	86	84	70-130	2	20
Dibromochloromethane	89	80	63-130	11	20
1,1,2-Trichloroethane	94	85	70-130	10	20
Tetrachloroethene	98	95	70-130	3	20
Chlorobenzene	95	92	75-130	3	25



Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

LCSD %Recovery LCS %Recovery %Recovery Qual Limits RPD **RPD** Limits Qual Qual Parameter Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579581-1 WG579581-2 Trichlorofluoromethane 100 62-150 20 96 4 1,2-Dichloroethane 89 86 70-130 3 20 1,1,1-Trichloroethane 87 67-130 20 85 2 67-130 Bromodichloromethane 85 78 9 20 trans-1,3-Dichloropropene 89 84 70-130 20 6 cis-1,3-Dichloropropene 70-130 87 80 8 20 1,1-Dichloropropene 88 88 70-130 0 20 Bromoform 101 85 54-136 20 17 1.1.2.2-Tetrachloroethane 67-130 20 97 87 11 70-130 25 Benzene 89 85 5 92 90 70-130 25 Toluene 2 Ethylbenzene 95 91 70-130 4 20 Chloromethane 96 97 64-130 20 1 Bromomethane 39-139 20 137 135 1 Vinyl chloride 55-140 20 97 97 0 Chloroethane 102 55-138 20 102 0 1,1-Dichloroethene 94 91 61-145 3 25 trans-1,2-Dichloroethene 90 91 70-130 1 20 Trichloroethene 70-130 25 94 88 7 70-130 20 1,2-Dichlorobenzene 100 97 3 1.3-Dichlorobenzene 102 102 70-130 20 0



Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

LCSD %Recovery LCS %Recovery %Recovery Qual Limits RPD **RPD** Limits Qual Qual Parameter Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579581-1 WG579581-2 1.4-Dichlorobenzene 102 100 70-130 2 20 Methyl tert butyl ether 90 80 63-130 12 20 p/m-Xylene 97 92 70-130 20 5 70-130 o-Xylene 96 94 2 20 cis-1.2-Dichloroethene 90 88 70-130 2 20 70-130 20 Dibromomethane 91 83 9 1,4-Dichlorobutane 94 87 70-130 8 20 1,2,3-Trichloropropane 102 88 64-130 15 20 Styrene 97 70-130 20 93 4 Dichlorodifluoromethane 109 36-147 20 108 1 104 92 58-148 12 20 Acetone Carbon disulfide 89 84 51-130 6 20 2-Butanone 79 63-138 19 20 96 70-130 20 Vinyl acetate 88 76 15 4-Methyl-2-pentanone 59-130 20 89 76 16 2-Hexanone 100 57-130 Q 20 81 21 Ethyl methacrylate 93 82 70-130 13 20 Acrylonitrile 92 76 70-130 19 20 Bromochloromethane 97 70-130 20 91 6 Tetrahydrofuran 58-130 20 78 69 12 2,2-Dichloropropane 92 63-133 20 87 6



Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

LCS LCSD %Recovery %Recovery %Recovery Limits RPD **RPD Limits** Qual Qual Qual Parameter Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579581-1 WG579581-2 1.2-Dibromoethane 70-130 13 20 96 84 1,3-Dichloropropane 92 83 70-130 10 20 1,1,1,2-Tetrachloroethane 93 90 64-130 20 3 102 70-130 Bromobenzene 99 3 20 n-Butylbenzene 97 103 53-136 6 20 sec-Butylbenzene 70-130 20 98 98 0 tert-Butylbenzene 95 94 70-130 1 20 o-Chlorotoluene 95 97 70-130 2 20 p-Chlorotoluene 97 70-130 20 99 2 91 41-144 Q 20 1,2-Dibromo-3-chloropropane 74 21 Hexachlorobutadiene 107 121 63-130 12 20 Isopropylbenzene 98 98 70-130 0 20 p-Isopropyltoluene 99 99 70-130 20 0 Naphthalene 70-130 20 94 86 9 n-Propylbenzene 69-130 20 99 96 3 1,2,3-Trichlorobenzene 101 96 70-130 20 5 1,2,4-Trichlorobenzene 102 102 70-130 0 20 64-130 1,3,5-Trimethylbenzene 100 98 2 20 1,2,4-Trimethylbenzene 70-130 20 100 101 1 trans-1,4-Dichloro-2-butene 70-130 20 102 85 18 Ethyl ether 91 81 59-134 12 20



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough L	ab Associated	sample(s):	01 Batch: W	/G579581-1	WG579581-2			
Isopropyl Ether	82		78		70-130	5		20
tert-Butyl Alcohol	100		72		70-130	33	Q	20
Ethyl-Tert-Butyl-Ether	88		82		70-130	7		20
Tertiary-Amyl Methyl Ether	87		78		66-130	11		20

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
1,2-Dichloroethane-d4	102		100		70-130	
Toluene-d8	102		105		70-130	
4-Bromofluorobenzene	95		100		70-130	
Dibromofluoromethane	102		100		70-130	



Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Microextractables by GC - Westborough Lab	Associated san	nple(s): 01	Batch: WG57	9798-2				
1,2-Dibromoethane	87		-		70-130	-		20
1,2-Dibromo-3-chloropropane	120		-		70-130	-		20



Project Name:

Project Number: 4828.9.00

114 MOUNT AUBURN STREET

Matrix Spike Analysis

Project Name:	114 MOUNT AUBURN STREET	Batch Quality Control	Lab Number:	L1222526
Project Number:	4828.9.00		Report Date:	12/18/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Microextractables by GC - We	stborough La	b Associate	d sample(s):	01 QC Batch	ר ID: WG	579798-3	QC Sample	e: L122	2506-01	Client I	D: MS S	Sample
1,2-Dibromoethane	ND	0.253	0.273	108		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.253	0.243	96		-	-		70-130	-		20



SEMIVOLATILES



		Serial_No:	12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	SAMPLE RESULTS		
Lab ID:	L1222526-01	Date Collected:	12/11/12 12:00
Client ID:	B-3 (OW)	Date Received:	12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	12/15/12 00:59
Analytical Date:	12/17/12 14:25		
Analyst:	RC		

Semivolatile Organics by GC/MS - Westborough Lab ND ug/l 20 1 1.2.4-Trichiorobenzene ND ug/l 5.0 1 Bis/2-chlorothyljether ND ug/l 2.0 1 1.2-Dichlorobenzene ND ug/l 2.0 1 1.3-Dichlorobenzene ND ug/l 2.0 1 1.4-Dichlorobenzene ND ug/l 5.0 1 3.3-Dichlorobenzene ND ug/l 5.0 1 2.4-Dinitrotoluene ND ug/l 5.0 1 2.4-Dinitrotoluene ND ug/l 5.0 1 2.6-Dinitrotoluene ND ug/l 2.0 1 4.2-Dinitrotoluene ND ug/l 2.0 <t< th=""><th>Parameter</th><th>Result</th><th>Qualifier</th><th>Units</th><th>RL</th><th>MDL</th><th>Dilution Factor</th></t<>	Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1.2.4-Trichlorobenzene ND ug/l 5.0 - 1 Bis(2-chloroethyl)ether ND ug/l 2.0 - 1 1.2-Dichlorobenzene ND ug/l 2.0 - 1 1.3-Dichlorobenzene ND ug/l 2.0 - 1 1.4-Dichlorobenzene ND ug/l 2.0 - 1 2.4-Dinitrotoluene ND ug/l 5.0 - 1 2.4-Dinitrotoluene ND ug/l 5.0 - 1 2.4-Dinitrotoluene ND ug/l 5.0 - 1 2.4-Dinitrotoluene ND ug/l 2.0 - 1 <t< th=""><th>Semivolatile Organics by GC/MS - We</th><th>estborough Lab</th><th></th><th></th><th></th><th></th><th></th></t<>	Semivolatile Organics by GC/MS - We	estborough Lab					
1.2.4-Trichlorobenzene ND ug/l 5.0 - 1 Bis(2-chloroetny)lether ND ug/l 2.0 - 1 1.2-Dichlorobenzene ND ug/l 2.0 - 1 1.3-Dichlorobenzene ND ug/l 2.0 - 1 1.4-Dichlorobenzene ND ug/l 2.0 - 1 3.3-Dichlorobenzene ND ug/l 5.0 - 1 3.3-Dichlorobenzelme ND ug/l 5.0 - 1 3.3-Dichlorobenzelme ND ug/l 5.0 - 1 2.4-Dinitrotoluene ND ug/l 5.0 - 1 2.6-Dinitrotoluene ND ug/l 2.0 - 1 4-Chlorophenyl phenyl ether ND ug/l 2.0 - 1 Bis(2-chlorostopropyl)ether ND ug/l 5.0 - 1 Bis(2-chlorostopropyl)ether ND ug/l 5.0 - 1 Isophorone ND ug/l 5.0 - <td< td=""><td>Benzidine</td><td>ND</td><td></td><td>ug/l</td><td>20</td><td></td><td>1</td></td<>	Benzidine	ND		ug/l	20		1
Bis(2-chloroethyl)ether ND ug/l 2.0 - 1 1.2-Dichlorobenzene ND ug/l 2.0 - 1 1.3-Dichlorobenzene ND ug/l 2.0 - 1 1.4-Dichlorobenzene ND ug/l 2.0 - 1 3.3-Dichlorobenzidine ND ug/l 5.0 - 1 2.4-Dinitrotoluene ND ug/l 5.0 - 1 Azobenzene ND ug/l 2.0 - 1 Bis(2-chlorosporpylether ND ug/l 2.0 - 1 Bis(2-chlorosporpylether ND ug/l 5.0 - 1 Isophorone </td <td>1,2,4-Trichlorobenzene</td> <td>ND</td> <td></td> <td></td> <td>5.0</td> <td></td> <td>1</td>	1,2,4-Trichlorobenzene	ND			5.0		1
1.2-Dichlorobenzene ND ug/l 2.0 1 1.3-Dichlorobenzene ND ug/l 2.0 1 3.3-Dichlorobenzene ND ug/l 5.0 1 3.3-Dichlorobenzidine ND ug/l 5.0 1 2.4-Dinitrotoluene ND ug/l 5.0 1 2.6-Dinitrotoluene ND ug/l 5.0 1 Azobenzene ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chlorosopropyl)ether ND ug/l 5.0 1 Bis(2-chlorosopropylether ND ug/l 5.0 1 Isophorone ND ug/l 5.0 1 Isophorone ND ug/l 5.0 1 Dir-butylphthalate ND ug/l 5.0 1	Bis(2-chloroethyl)ether	ND		ug/l	2.0		1
1.4-Dichlorobenzene ND ug/l 2.0 1 3.3'-Dichlorobenzidine ND ug/l 5.0 1 2.4-Dinitrotoluene ND ug/l 5.0 1 2.6-Dinitrotoluene ND ug/l 5.0 1 Azobenzene ND ug/l 2.0 1 4-Chlorophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chlorostopropylpether ND ug/l 2.0 1 Bis(2-chlorosthoxy)methane ND ug/l 2.0 1 Isophorone ND ug/l 2.0 1 Isophorone ND ug/l 2.0 1 Isig/2-ethylhexyl)phthalate ND ug/l 3.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0	1,2-Dichlorobenzene	ND			2.0		1
3.3 Dichlorobenzidine ND ug/l 5.0 1 2.4 Dinitrotoluene ND ug/l 5.0 1 2.6 Dinitrotoluene ND ug/l 5.0 1 Azobenzene ND ug/l 2.0 1 4-Chorophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 ND ug/l 5.0 1 1 Bis(2-chloroisopropyl)ether ND ug/l 2.0 1 ND ug/l 5.0 1 1 Diphorone ND ug/l 5.0 1	1,3-Dichlorobenzene	ND		ug/l	2.0		1
2.4-Dinitrotoluene ND ug/l 5.0 1 2.6-Dinitrotoluene ND ug/l 5.0 1 Azobenzene ND ug/l 2.0 1 4-Chlorophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 ND ug/l 5.0 1 1 Isophorone ND ug/l 5.0 1 NItrobenzene ND ug/l 5.0 1 Sulp benyl phthalate ND ug/l 5.0 1 Dir-octylphthalate ND ug/l 5.0 1 Dir-octylphthalate ND ug/l 5.0 1 <td>1,4-Dichlorobenzene</td> <td>ND</td> <td></td> <td>ug/l</td> <td>2.0</td> <td></td> <td>1</td>	1,4-Dichlorobenzene	ND		ug/l	2.0		1
2.6-Dinitrotoluene ND ug/l 5.0 1 Azobenzene ND ug/l 2.0 1 4-Chlorophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 Isophorone ND ug/l 5.0 1 NDPA/DPA ND ug/l 3.0 1 Bis(2-chlyhexyl)phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0	3,3'-Dichlorobenzidine	ND		ug/l	5.0		1
ND ug/l 2.0 1 4-Chloropheryl phenyl ether ND ug/l 2.0 1 4-Bromopheryl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 5.0 1 Hexachlorocyclopentadiene ND ug/l 5.0 1 Isophorone ND ug/l 5.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 2.0 1 NDPA/DPA ND ug/l 5.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 <tr< td=""><td>2,4-Dinitrotoluene</td><td>ND</td><td></td><td>ug/l</td><td>5.0</td><td></td><td>1</td></tr<>	2,4-Dinitrotoluene	ND		ug/l	5.0		1
4-Chlorophenyl phenyl ether ND ug/l 2.0 1 4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 2.0 1 Bis(2-chloroethoxy)methane ND ug/l 5.0 1 Hexachlorocyclopentadiene ND ug/l 2.0 1 Isophorone ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1	2,6-Dinitrotoluene	ND		ug/l	5.0		1
4-Bromophenyl phenyl ether ND ug/l 2.0 1 Bis(2-chloroisopropyl)ether ND ug/l 2.0 1 Bis(2-chloroethoxy)methane ND ug/l 5.0 1 Hexachlorocyclopentadiene ND ug/l 2.0 1 Isophorone ND ug/l 2.0 1 Ntrobenzene ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-chlyhexyl)phthalate ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-chlyhexyl)phthalate ND ug/l 3.0 1 Bis(2-chlyhexyl)phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Dien-butylphthalate ND ug/l 5.0	Azobenzene	ND		ug/l	2.0		1
International synthetic synthypertus synthypertus synthetic synthetic synthetic synthetic syn	4-Chlorophenyl phenyl ether	ND		ug/l	2.0		1
Bis(2-chloroethoxy)methane ND ug/l 5.0 1 Hexachlorocyclopentadiene ND ug/l 20 1 Isophorone ND ug/l 5.0 1 Nitrobenzene ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Bit/l benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Dienhyl phthalate ND ug/l 5.0 1 Dienhyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4	4-Bromophenyl phenyl ether	ND		ug/l	2.0		1
Hexachlorocyclopentadiene ND ug/l 20 1 Isophorone ND ug/l 5.0 1 Nitrobenzene ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Butyl benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1	Bis(2-chloroisopropyl)ether	ND		ug/l	2.0		1
Isophorone ND ug/l 5.0 1 Nitrobenzene ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 5.0 1 Butyl benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Dienhyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1	Bis(2-chloroethoxy)methane	ND		ug/l	5.0		1
Nitrobenzene ND ug/l 2.0 1 NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Butyl benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Dien-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Ni	Hexachlorocyclopentadiene	ND		ug/l	20		1
NDPA/DPA ND ug/l 2.0 1 Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Butyl benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Dien-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 <td< td=""><td>Isophorone</td><td>ND</td><td></td><td>ug/l</td><td>5.0</td><td></td><td>1</td></td<>	Isophorone	ND		ug/l	5.0		1
Bis(2-ethylhexyl)phthalate ND ug/l 3.0 1 Butyl benzyl phthalate ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 5.0 1	Nitrobenzene	ND		ug/l	2.0		1
ND ug/l 5.0 1 Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 5.0 1	NDPA/DPA	ND		ug/l	2.0		1
Di-n-butylphthalate ND ug/l 5.0 1 Di-n-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 5.0 1	Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0		1
Di-n-octylphthalate ND ug/l 5.0 1 Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 5.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 bibenzofuran ND ug/l 5.0 1	Butyl benzyl phthalate	ND		ug/l	5.0		1
Diethyl phthalate ND ug/l 5.0 1 Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 2.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 bibenzofuran ND ug/l 5.0 1	Di-n-butylphthalate	ND		ug/l	5.0		1
Dimethyl phthalate ND ug/l 5.0 1 Aniline ND ug/l 2.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 bibenzofuran ND ug/l 5.0 1	Di-n-octylphthalate	ND		ug/l	5.0		1
Aniline ND ug/l 2.0 1 4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 2.0 1	Diethyl phthalate	ND		ug/l	5.0		1
4-Chloroaniline ND ug/l 5.0 1 2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 bibenzofuran ND ug/l 2.0 1	Dimethyl phthalate	ND		ug/l	5.0		1
2-Nitroaniline ND ug/l 5.0 1 3-Nitroaniline ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 2.0 1	Aniline	ND		ug/l	2.0		1
ND ug/l 5.0 1 4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 2.0 1	4-Chloroaniline	ND		ug/l	5.0		1
4-Nitroaniline ND ug/l 5.0 1 Dibenzofuran ND ug/l 2.0 1	2-Nitroaniline	ND		ug/l	5.0		1
Dibenzofuran ND ug/l 2.0 1	3-Nitroaniline	ND		ug/l	5.0		1
	4-Nitroaniline	ND		ug/l	5.0		1
n-Nitrosodimethylamine ND ug/l 2.0 1	Dibenzofuran	ND		ug/l	2.0		1
	n-Nitrosodimethylamine	ND		ug/l	2.0		1



					Serial_No:12181216:21				
Project Name:	114 MOUNT AUBURN S	TREET		La	b Number:	L1	222526		
Project Number:	4828.9.00			Re	port Date:	12	/18/12		
		SAMPLE F	RESULTS						
Lab ID: Client ID: Sample Location:	L1222526-01 B-3 (OW) CAMBRIDGE, MA			Date	e Collected: e Received: d Prep:	12/1	1/12 12:00 2/12 Specified		
Parameter		Result	Qualifier	Units	RL	MDL	Dilution Factor		
Semivolatile Organ	nics by GC/MS - Westborou	gh Lab							
2,4,6-Trichlorophenol		ND		ug/l	5.0		1		
p-Chloro-m-cresol		ND		ug/l	2.0		1		
2-Chlorophenol		ND		ug/l	2.0		1		
2,4-Dichlorophenol		ND		ug/l	5.0		1		
2,4-Dimethylphenol		ND		ug/l	5.0		1		
2-Nitrophenol		ND		ug/l	10		1		
4-Nitrophenol		ND		ug/l	10		1		
2,4-Dinitrophenol		ND		ug/l	20		1		
4,6-Dinitro-o-cresol		ND		ug/l	10		1		
Phenol		ND		ug/l	5.0		1		
2-Methylphenol		ND		ug/l	5.0		1		
3-Methylphenol/4-Methy	ylphenol	ND		ug/l	5.0		1		
2,4,5-Trichlorophenol		ND		ug/l	5.0		1		
Benzoic Acid		ND		ug/l	50		1		
Benzyl Alcohol		ND		ug/l	2.0		1		
Carbazole		ND		ug/l	2.0		1		
Pyridine		ND		ug/l	5.0		1		

Surrogate	% Recovery	Acceptance Qualifier Criteria
2-Fluorophenol	39	21-120
Phenol-d6	24	10-120
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	59	15-120
2,4,6-Tribromophenol	66	10-120
4-Terphenyl-d14	74	41-149



		Serial_No:	12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	SAMPLE RESULTS		
Lab ID:	L1222526-01	Date Collected:	12/11/12 12:00
Client ID:	B-3 (OW)	Date Received:	12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	12/15/12 01:01
Analytical Date:	12/16/12 18:44		
Analyst:	AS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SI	M - Westborough Lab					
Acenaphthene	ND		ug/l	0.20		1
•			0			
2-Chloronaphthalene	ND		ug/l	0.20		1
Fluoranthene	ND		ug/l	0.20		1
Hexachlorobutadiene	ND		ug/l	0.50		1
Naphthalene	ND		ug/l	0.20		1
Benzo(a)anthracene	ND		ug/l	0.20		1
Benzo(a)pyrene	ND		ug/l	0.20		1
Benzo(b)fluoranthene	ND		ug/l	0.20		1
Benzo(k)fluoranthene	ND		ug/l	0.20		1
Chrysene	ND		ug/l	0.20		1
Acenaphthylene	ND		ug/l	0.20		1
Anthracene	ND		ug/l	0.20		1
Benzo(ghi)perylene	ND		ug/l	0.20		1
Fluorene	ND		ug/l	0.20		1
Phenanthrene	ND		ug/l	0.20		1
Dibenzo(a,h)anthracene	ND		ug/l	0.20		1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20		1
Pyrene	ND		ug/l	0.20		1
1-Methylnaphthalene	ND		ug/l	0.20		1
2-Methylnaphthalene	ND		ug/l	0.20		1
Pentachlorophenol	ND		ug/l	0.80		1
Hexachlorobenzene	ND		ug/l	0.80		1
Hexachloroethane	ND		ug/l	0.80		1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
2-Fluorophenol	38		21-120	
Phenol-d6	27		10-120	
Nitrobenzene-d5	58		23-120	
2-Fluorobiphenyl	51		15-120	
2,4,6-Tribromophenol	72		10-120	
4-Terphenyl-d14	59		41-149	



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis		

Batch Quality Control

Analytical Method:	1,8270D	Extraction Method:	EPA 3510C
Analytical Date:	12/17/12 13:07	Extraction Date:	12/15/12 00:59
Analyst:	RC		

arameter	Result	Qualifier Units	RL	MDL
emivolatile Organics by GC/N	IS - Westboroug	h Lab for sample(s):	01 Batch:	WG579686-1
Benzidine	ND	ug/l	20	
1,2,4-Trichlorobenzene	ND	ug/l	5.0	
Bis(2-chloroethyl)ether	ND	ug/l	2.0	
1,2-Dichlorobenzene	ND	ug/l	2.0	
1,3-Dichlorobenzene	ND	ug/l	2.0	
1,4-Dichlorobenzene	ND	ug/l	2.0	
3,3'-Dichlorobenzidine	ND	ug/l	5.0	
2,4-Dinitrotoluene	ND	ug/l	5.0	
2,6-Dinitrotoluene	ND	ug/l	5.0	
Azobenzene	ND	ug/l	2.0	
4-Chlorophenyl phenyl ether	ND	ug/l	2.0	
4-Bromophenyl phenyl ether	ND	ug/l	2.0	
Bis(2-chloroisopropyl)ether	ND	ug/l	2.0	
Bis(2-chloroethoxy)methane	ND	ug/l	5.0	
Hexachlorocyclopentadiene	ND	ug/l	20	
Isophorone	ND	ug/l	5.0	
Nitrobenzene	ND	ug/l	2.0	
NDPA/DPA	ND	ug/l	2.0	
Bis(2-ethylhexyl)phthalate	ND	ug/l	3.0	
Butyl benzyl phthalate	ND	ug/l	5.0	
Di-n-butylphthalate	ND	ug/l	5.0	
Di-n-octylphthalate	ND	ug/l	5.0	
Diethyl phthalate	ND	ug/l	5.0	
Dimethyl phthalate	ND	ug/l	5.0	
Aniline	ND	ug/l	2.0	
4-Chloroaniline	ND	ug/l	5.0	
2-Nitroaniline	ND	ug/l	5.0	
3-Nitroaniline	ND	ug/l	5.0	
4-Nitroaniline	ND	ug/l	5.0	
Dibenzofuran	ND	ug/l	2.0	
n-Nitrosodimethylamine	ND	ug/l	2.0	



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis		

Batch Quality Control

Analytical Method:	1,8270D	Extraction Method:	EPA 3510C
Analytical Date:	12/17/12 13:07	Extraction Date:	12/15/12 00:59
Analyst:	RC		

arameter	Result	Qualifier	Units	RL	MDL
emivolatile Organics by GC/MS	S - Westboroug	h Lab for sam	nple(s): 01	Batch:	WG579686-1
2,4,6-Trichlorophenol	ND		ug/l	5.0	
p-Chloro-m-cresol	ND		ug/l	2.0	
2-Chlorophenol	ND		ug/l	2.0	
2,4-Dichlorophenol	ND		ug/l	5.0	
2,4-Dimethylphenol	ND		ug/l	5.0	
2-Nitrophenol	ND		ug/l	10	
4-Nitrophenol	ND		ug/l	10	
2,4-Dinitrophenol	ND		ug/l	20	
4,6-Dinitro-o-cresol	ND		ug/l	10	
Phenol	ND		ug/l	5.0	
2-Methylphenol	ND		ug/l	5.0	
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	
2,4,5-Trichlorophenol	ND		ug/l	5.0	
Benzoic Acid	ND		ug/l	50	
Benzyl Alcohol	ND		ug/l	2.0	
Carbazole	ND		ug/l	2.0	
Pyridine	ND		ug/l	5.0	

		Acceptance	
Surrogate	%Recovery	Qualifier Criteria	
			_
2-Fluorophenol	48	21-120	
Phenol-d6	33	10-120	
Nitrobenzene-d5	66	23-120	
2-Fluorobiphenyl	67	15-120	
2,4,6-Tribromophenol	61	10-120	
4-Terphenyl-d14	83	41-149	



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis		

Analytical Method:	1,8270D-SIM	Extraction Method:	EPA 3510C
Analytical Date:	12/16/12 17:38	Extraction Date:	12/15/12 01:01
Analyst:	AS		

arameter	Result	Qualifier	Units		RL	MDL
emivolatile Organics by GC/	MS-SIM - Westbo	brough Lab fo	r sample(s):	01	Batch:	WG579687-1
Acenaphthene	ND		ug/l		0.20	
2-Chloronaphthalene	ND		ug/l		0.20	
Fluoranthene	ND		ug/l		0.20	
Hexachlorobutadiene	ND		ug/l		0.50	
Naphthalene	ND		ug/l		0.20	
Benzo(a)anthracene	ND		ug/l		0.20	
Benzo(a)pyrene	ND		ug/l		0.20	
Benzo(b)fluoranthene	ND		ug/l		0.20	
Benzo(k)fluoranthene	ND		ug/l		0.20	
Chrysene	ND		ug/l		0.20	
Acenaphthylene	ND		ug/l		0.20	
Anthracene	ND		ug/l		0.20	
Benzo(ghi)perylene	ND		ug/l		0.20	
Fluorene	ND		ug/l		0.20	
Phenanthrene	ND		ug/l		0.20	
Dibenzo(a,h)anthracene	ND		ug/l		0.20	
Indeno(1,2,3-cd)Pyrene	ND		ug/l		0.20	
Pyrene	ND		ug/l		0.20	
1-Methylnaphthalene	ND		ug/l		0.20	
2-Methylnaphthalene	ND		ug/l		0.20	
Pentachlorophenol	ND		ug/l		0.80	
Hexachlorobenzene	ND		ug/l		0.80	
Hexachloroethane	ND		ug/l		0.80	



Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Method Blank Analysis		

Batch Quality Control	

Analytical Method:	1,8270D-SIM	Extraction Method:	EPA 3510C
Analytical Date:	12/16/12 17:38	Extraction Date:	12/15/12 01:01
Analyst:	AS		

Parameter	Result	Qualifier	Units		RL	MDL
Semivolatile Organics by GC/MS-SI	A - Westbo	rough Lab fo	or sample(s):	01	Batch:	WG579687-1

%Recovery	Acceptance Qualifier Criteria
42	21-120
30	10-120
66	23-120
53	15-120
67	10-120
59	41-149
	42 30 66 53 67



Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

LCSD %Recovery LCS %Recovery %Recovery Limits RPD **RPD Limits** Qual Qual Qual Parameter Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579686-2 WG579686-3 Benzidine 10-75 18 30 12 10 1,2,4-Trichlorobenzene 69 58 39-98 17 30 Bis(2-chloroethyl)ether 40-140 20 30 70 57 1,2-Dichlorobenzene 66 56 40-140 16 30 1.3-Dichlorobenzene 62 53 40-140 16 30 1.4-Dichlorobenzene 62 52 36-97 18 30 3,3'-Dichlorobenzidine 52 52 40-140 0 30 2,4-Dinitrotoluene Q Q 24-96 30 108 97 11 2.6-Dinitrotoluene 40-140 30 98 91 7 40-140 30 Azobenzene 88 78 12 4-Chlorophenyl phenyl ether 84 74 40-140 13 30 4-Bromophenyl phenyl ether 91 81 40-140 12 30 Bis(2-chloroisopropyl)ether 68 56 40-140 30 19 Bis(2-chloroethoxy)methane 40-140 30 76 63 19 Hexachlorocyclopentadiene 40-140 30 53 43 21 40-140 30 Isophorone 77 65 17 Nitrobenzene 77 66 40-140 15 30 NitrosoDiPhenylAmine(NDPA)/DPA 91 82 40-140 10 30 Bis(2-Ethylhexyl)phthalate 40-140 30 106 101 5 Butyl benzyl phthalate 40-140 30 106 100 6 Di-n-butylphthalate 97 92 40-140 30 5



Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

LCS LCSD %Recovery %Recovery %Recovery Limits RPD **RPD** Limits Qual Qual Qual Parameter Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG579686-2 WG579686-3 Di-n-octylphthalate 40-140 3 30 96 93 Diethyl phthalate 94 85 40-140 10 30 Dimethyl phthalate 91 80 40-140 30 13 Q Q 40-140 30 Aniline 20 17 16 4-Chloroaniline Q 34 Q 40-140 11 30 38 52-143 30 2-Nitroaniline 91 88 3 3-Nitroaniline 57 56 25-145 2 30 4-Nitroaniline 101 89 51-143 13 30 Dibenzofuran 40-140 30 82 71 14 38 22-74 30 n-Nitrosodimethylamine 43 12 92 82 30-130 11 30 2,4,6-Trichlorophenol P-Chloro-M-Cresol 96 82 23-97 16 30 2-Chlorophenol 74 62 27-123 30 18 2,4-Dichlorophenol 30-130 30 82 73 12 2,4-Dimethylphenol 30-130 30 85 72 17 2-Nitrophenol 82 70 30-130 30 16 4-Nitrophenol 61 55 10-80 10 30 2,4-Dinitrophenol 95 93 20-130 2 30 4.6-Dinitro-o-cresol 20-164 30 92 91 1 Phenol 12-110 30 38 33 14 2-Methylphenol 70 60 30-130 15 30



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborou	igh Lab Associ	ated sample(s): 01 Batch:	WG5796	86-2 WG579686	-3		
3-Methylphenol/4-Methylphenol	70		60		30-130	15		30
2,4,5-Trichlorophenol	97		86		30-130	12		30
Benzoic Acid	0	Q	0	Q	10-164	NC		30
Benzyl Alcohol	66		57		26-116	15		30
Carbazole	90		85		55-144	6		30
Pyridine	35		27		10-66	26		30

•	LCS	LCSD	Acceptance
Surrogate	%Recovery	Qual %Recovery	Qual Criteria
2-Fluorophenol	56	48	21-120
Phenol-d6	39	34	10-120
Nitrobenzene-d5	77	65	23-120
2-Fluorobiphenyl	78	67	15-120
2,4,6-Tribromophenol	88	81	10-120
4-Terphenyl-d14	88	83	41-149



Lab Number: L1222526

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Report Date: 12/18/12

arameter	LCS %Recovery C	LCSD Qual %Recovery	%Recovery Qual Limits	RPD	Qual RPD Limits
emivolatile Organics by GC/MS-SIM - W	estborough Lab Asso	ciated sample(s): 01 B	Batch: WG579687-2 WG5	79687-3	
Acenaphthene	63	66	37-111	5	40
2-Chloronaphthalene	64	67	40-140	5	40
Fluoranthene	78	79	40-140	1	40
Hexachlorobutadiene	57	58	40-140	2	40
Naphthalene	61	65	40-140	6	40
Benzo(a)anthracene	82	86	40-140	5	40
Benzo(a)pyrene	75	76	40-140	1	40
Benzo(b)fluoranthene	66	66	40-140	0	40
Benzo(k)fluoranthene	82	91	40-140	10	40
Chrysene	69	71	40-140	3	40
Acenaphthylene	65	71	40-140	9	40
Anthracene	76	76	40-140	0	40
Benzo(ghi)perylene	76	76	40-140	0	40
Fluorene	67	71	40-140	6	40
Phenanthrene	73	79	40-140	8	40
Dibenzo(a,h)anthracene	72	73	40-140	1	40
Indeno(1,2,3-cd)Pyrene	74	75	40-140	1	40
Pyrene	71	72	26-127	1	40
1-Methylnaphthalene	61	65	40-140	6	40
2-Methylnaphthalene	62	64	40-140	3	40
Pentachlorophenol	80	80	9-103	0	40



Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM -	Westborough Lab Ass	sociated sa	imple(s): 01 B	atch: WG	579687-2 WG579	9687-3		
Hexachlorobenzene	67		71		40-140	6		40
Hexachloroethane	63		61		40-140	3		40

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
2-Fluorophenol	45		47		21-120	
Phenol-d6	34		36		10-120	
Nitrobenzene-d5	69		68		23-120	
2-Fluorobiphenyl	56		60		15-120	
2,4,6-Tribromophenol	74		79		10-120	
4-Terphenyl-d14	68		68		41-149	



Project Name:

Project Number:

114 MOUNT AUBURN STREET

4828.9.00

PCBS



		Serial_No:12181216:21
Project Name:	114 MOUNT AUBURN STREET	Lab Number: L1222526
Project Number:	4828.9.00	Report Date: 12/18/12
	SAMPLE RESULTS	
Lab ID:	L1222526-01	Date Collected: 12/11/12 12:00
Client ID:	B-3 (OW)	Date Received: 12/12/12
Sample Location:	CAMBRIDGE, MA	Field Prep: Not Specified
Matrix:	Water	Extraction Method: EPA 608
Analytical Method:	5,608	Extraction Date: 12/13/12 08:09
Analytical Date:	12/17/12 19:42	Cleanup Method1: EPA 3665A
Analyst:	WL	Cleanup Date1: 12/13/12
		Cleanup Method2: EPA 3660B
		Cleanup Date2: 12/13/12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Polychlorinated Biphenyls by GC - Westborough Lab								
Aroclor 1016	ND		ug/l	0.250		1		
Aroclor 1221	ND		ug/l	0.250		1		
Aroclor 1232	ND		ug/l	0.250		1		
Aroclor 1242	ND		ug/l	0.250		1		
Aroclor 1248	ND		ug/l	0.250		1		
Aroclor 1254	ND		ug/l	0.250		1		
Aroclor 1260	ND		ug/l	0.250		1		

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
2,4,5,6-Tetrachloro-m-xylene	85		30-150	
Decachlorobiphenyl	77		30-150	



12/13/12

Project Name:	114 MOUNT AUBURN STREET	Lab Number:	L1222526
Project Number:	4828.9.00	Report Date:	12/18/12
	Mathad Diaula Analysia		

Method Blank Analysis Batch Quality Control

Analytical Method:	5,608
Analytical Date:	12/17/12 18:37
Analyst:	JW

Extraction Method:EPA 608Extraction Date:12/13/12 08:09Cleanup Method1:EPA 3665ACleanup Date1:12/13/12Cleanup Method2:EPA 3660BCleanup Date2:12/13/12

arameter	Result	Qualifier	Units	RL	MDL
blychlorinated Biphenyls by GC -	Westborough	n Lab for sam	nple(s): 01	Batch: WG5	579196-1
Aroclor 1016	ND		ug/l	0.250	
Aroclor 1221	ND		ug/l	0.250	
Aroclor 1232	ND		ug/l	0.250	
Aroclor 1242	ND		ug/l	0.250	
Aroclor 1248	ND		ug/l	0.250	
Aroclor 1254	ND		ug/l	0.250	
Aroclor 1260	ND		ug/l	0.250	

	Acceptance						
Surrogate	%Recovery	Qualifier	Criteria				
2,4,5,6-Tetrachloro-m-xylene	91		30-150				
Decachlorobiphenyl	107		30-150				



Matrix Spike Analysis

Project Name:	114 MOUNT AUBURN STREET	Batch Quality Control	Lab Number:	L1222526
Project Number:	4828.9.00		Report Date:	12/18/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recover	y Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by	y GC - Westbord	ough Lab A	ssociated sar	mple(s): 01	QC Batch	ID: WG5	79196-3 0	QC Samp	ole: L12225	26-01	Client I	D: B-3 (OW)
Aroclor 1016	ND	2.13	1.70	80		-	-		40-140	-		50
Aroclor 1260	ND	2.13	1.60	75		-	-		40-140	-		50

	MS		M	SD	Acceptance	
Surrogate	% Recovery	Qualifier	% Recovery	Qualifier	Criteria	
2,4,5,6-Tetrachloro-m-xylene	84				30-150	
Decachlorobiphenyl	91				30-150	



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery Q	LCSD ual %Recovery	%Recovery Qual Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - W	estborough Lab Associated	sample(s): 01 Batch:	WG579196-2			
Aroclor 1016	78	-	40-140	-		50
Aroclor 1260	75	-	40-140	-		50

	LCS		LCSD		Acceptance	
Surrogate	%Recovery	Qual	%Recovery	Qual	Criteria	
2,4,5,6-Tetrachloro-m-xylene	79				30-150	
Decachlorobiphenyl	99				30-150	



Lab Duplicate Analysis Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual RPD Limits
olychlorinated Biphenyls by GC - Westborough Lab	Associated sample(s): 01	QC Batch ID: WG5797	196-4 QC Sa	mple: L1222	526-01 Client ID: B-3 (OW)
Aroclor 1016	ND	ND	ug/l	NC	50
Aroclor 1221	ND	ND	ug/l	NC	50
Aroclor 1232	ND	ND	ug/l	NC	50
Aroclor 1242	ND	ND	ug/l	NC	50
Aroclor 1248	ND	ND	ug/l	NC	50
Aroclor 1254	ND	ND	ug/l	NC	50
Aroclor 1260	ND	ND	ug/l	NC	50

					Acceptance	
Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Criteria	
2,4,5,6-Tetrachloro-m-xylene	85		83		30-150	
Decachlorobiphenyl	77		93		30-150	



METALS



Project Name:	114 MOUNT AUBURN STREET		Lab Num	nber:	L1222	526
Project Number:	4828.9.00		Report D	Date:	12/18/	12
	SAMPLE F	RESULTS				
Lab ID:	L1222526-01		Date Col	lected:	12/11/	12 12:00
Client ID:	B-3 (OW)		Date Rec	eived:	12/12/	12
Sample Location:	CAMBRIDGE, MA		Field Pre	p:	Not Sp	pecified
Matrix:	Water					
		Dilution	Date	Date	Prep	Analytical

Parameter	Result	Qualifier	Units	RL	MDL	Factor	Prepared	Analyzed	Method	Method	Analyst
Total Metals - We	stborough l	_ab									
Antimony, Total	0.0008		mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0010		mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0002		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Chromium, Total	0.0052		mg/l	0.0010		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Copper, Total	0.0081		mg/l	0.0010		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Iron, Total	4.1		mg/l	0.05		1	12/14/12 14:44	12/14/12 20:49	EPA 3005A	19,200.7	BM
Lead, Total	0.0057		mg/l	0.0040		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002		1	12/14/12 14:28	12/17/12 16:20	EPA 245.1	3,245.1	JH
Nickel, Total	0.0043		mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0004		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK
Zinc, Total	0.0220		mg/l	0.0100		1	12/14/12 14:44	12/15/12 09:56	EPA 3005A	1,6020A	AK



Project Name:114 MOUNT AUBURN STREETProject Number:4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytica Method	
Total Metals - Westborougl	h Lab for sample	e(s): 01 Bat	ch: WG	657954	49-1				
Mercury, Total	ND	mg/l	0.0002		1	12/14/12 14:28	12/17/12 15:58	3,245.1	JH

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifie	er Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborou	ugh Lab for sample	e(s): 01 Bat	tch: WG	657958	39-1				
Antimony, Total	ND	mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Arsenic, Total	ND	mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Cadmium, Total	ND	mg/l	0.0002		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Chromium, Total	ND	mg/l	0.0010		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Copper, Total	ND	mg/l	0.0010		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Lead, Total	ND	mg/l	0.0040		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Nickel, Total	ND	mg/l	0.0005		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Selenium, Total	ND	mg/l	0.005		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Silver, Total	ND	mg/l	0.0004		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK
Zinc, Total	ND	mg/l	0.0100		1	12/14/12 14:44	12/15/12 09:24	1,6020A	AK

Digestion Method: EPA 3005A

Parameter	Result Qualifier	· Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborougl	h Lab for sample(s): 01 Bat	ch: WO	G57959	95-1				
Iron, Total	ND	mg/l	0.05		1	12/14/12 14:44	12/14/12 19:31	19,200.7	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery Qua	LCSD al %Recovery		ecovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associ	ated sample(s): 01 Batch: W	G579549-2					
Mercury, Total	98	-	8	85-115	-		
Total Metals - Westborough Lab Associ	ated sample(s): 01 Batch: W	G579589-2					
Antimony, Total	87	-	8	80-120	-		
Arsenic, Total	101	-	8	80-120	-		
Cadmium, Total	97	-	٤	80-120	-		
Chromium, Total	98	-	٤	80-120	-		
Copper, Total	100	-	8	80-120	-		
Lead, Total	106	-	ξ	80-120	-		
Nickel, Total	98	-	٤	80-120	-		
Selenium, Total	106	-	ξ	80-120	-		
Silver, Total	93	-	ξ	80-120	-		
Zinc, Total	101	-	8	80-120	-		
Total Metals - Westborough Lab Associ	ated sample(s): 01 Batch: W	G579595-2					
Iron, Total	100	-	8	85-115	-		



Matrix Spike Analysis Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

arameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery Qu	Recovery Ial Limits	RPD Qua	RPD I Limits
Fotal Metals - Westboroug	h Lab Associated	sample(s): 01	QC Ba	tch ID: WG579	549-4	QC Samp	ole: L1222526-01	Client ID: B-3	(OW)	
Mercury, Total	ND	0.001	0.0012	122		-	-	70-130	-	20
Fotal Metals - Westboroug	h Lab Associated	sample(s): 01	QC Ba	tch ID: WG579	589-4	QC Samp	ole: L1222507-01	Client ID: MS	Sample	
Antimony, Total	0.0011	0.5	0.4958	99		-	-	80-120	-	20
Arsenic, Total	0.0011	0.12	0.1246	103		-	-	80-120	-	20
Cadmium, Total	ND	0.051	0.0561	110		-	-	80-120	-	20
Chromium, Total	0.0024	0.2	0.1953	96		-	-	80-120	-	20
Copper, Total	0.0017	0.25	0.2703	107		-	-	80-120	-	20
Lead, Total	ND	0.51	0.5376	105		-	-	80-120	-	20
Nickel, Total	0.0023	0.5	0.4868	97		-	-	80-120	-	20
Selenium, Total	ND	0.12	0.128	107		-	-	80-120	-	20
Silver, Total	ND	0.05	0.0474	95		-	-	80-120	-	20
Zinc, Total	ND	0.5	0.5431	109		-	-	80-120	-	20
Fotal Metals - Westboroug	h Lab Associated	sample(s): 01	QC Ba	tch ID: WG579	595-4	QC Samp	ole: L1221858-02	Client ID: MS	Sample	
Iron, Total	3.0	1	3.9	90		-	-	75-125	-	20



Project Name: Project Number:	114 MOUNT AUBURN STREE 4828.9.00	ΞT	Lab Duplicate Anal Batch Quality Contro			ab Number: eport Date:	L1222526 12/18/12
Parameter		Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborou	ugh Lab Associated sample(s):	01 QC Batch ID:	WG579549-3 QC Sample	: L1222526-01	Client ID:	B-3 (OW)	
Mercury, Total		ND	ND	mg/l	NC		20
Total Metals - Westborou	ugh Lab Associated sample(s):	01 QC Batch ID:	WG579589-3 QC Sample	: L1222507-01	Client ID:	DUP Samp	e
Lead, Total		ND	ND	mg/l	NC		20



INORGANICS & MISCELLANEOUS



L1222526

12/18/12

Lab Number:

Report Date:

Project Name:	114 MOUNT AUBURN STREET

Project Number: 4828.9.00

SAMPLE RESULTS

Lab ID:L1222526-01Date Collected:12/11/12 12:00Client ID:B-3 (OW)Date Received:12/12/12Sample Location:CAMBRIDGE, MAField Prep:Not SpecifiedMatrix:WaterVaterVater

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - We	stborough Lat)								
Solids, Total Suspended	170		mg/l	15	NA	3	-	12/17/12 14:05	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005		1	12/13/12 11:22	12/18/12 14:25	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02		1	-	12/12/12 20:52	30,4500CL-D	EL
рН (Н)	7.2		SU	-	NA	1	-	12/12/12 19:15	30,4500H+-B	EL
ТРН	ND		mg/l	4.40		1.1	12/14/12 12:30	12/18/12 14:30	74,1664A	JO
Phenolics, Total	0.05		mg/l	0.03		1	12/13/12 11:00	12/13/12 12:57	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010		1	12/13/12 02:00	12/13/12 03:00	30,3500CR-D	DE
Anions by Ion Chromato	graphy - West	borough L	.ab							
Chloride	1800		mg/l	50		100	-	12/13/12 20:36	44,300.0	AU

Project Name:114 MOUNT AUBURN STREETProject Number:4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifie	r Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9136-1				
Chlorine, Total Residual	ND	mg/l	0.02		1	-	12/12/12 20:52	30,4500CL-D	EL
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9165-1				
Chromium, Hexavalent	ND	mg/l	0.010		1	12/13/12 02:00	12/13/12 02:59	30,3500CR-D	DE
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9247-1				
Cyanide, Total	ND	mg/l	0.005		1	12/13/12 11:22	12/18/12 14:07	30,4500CN-CE	JO
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9271-1				
Phenolics, Total	ND	mg/l	0.03		1	12/13/12 11:00	12/13/12 12:55	4,420.1	MP
Anions by Ion Chromat	ography - Westboroug	h Lab for sa	mple(s):	01 B	atch: WG5	79428-1			
Chloride	ND	mg/l	0.50		1	-	12/13/12 19:00	44,300.0	AU
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9609-1				
ТРН	ND	mg/l	4.00		1	12/14/12 12:30	12/18/12 14:30	74,1664A	JO
General Chemistry - W	estborough Lab for sa	mple(s): 01	Batch:	WG57	9804-1				
Solids, Total Suspended	ND	mg/l	5.0	NA	1	-	12/17/12 14:05	30,2540D	DW



Lab Control Sample Analysis Batch Quality Control

Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00 Lab Number: L1222526 Report Date: 12/18/12

Parameter	LCS %Recovery (CSD covery Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s):	01 Batch: WO	G579119-1				
рН	100		-	99-101	-		5
General Chemistry - Westborough Lab	Associated sample(s): (01 Batch: WO	G579136-2				
Chlorine, Total Residual	93		-	90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): (01 Batch: W0	G579165-2				
Chromium, Hexavalent	100		-	85-115	-		20
General Chemistry - Westborough Lab	Associated sample(s): (01 Batch: WO	G579247-2				
Cyanide, Total	102		-	90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): (01 Batch: W0	G579271-2				
Phenolics, Total	94		-	82-111	-		12
Anions by Ion Chromatography - Westbo	prough Lab Associated	l sample(s): 01	Batch: WG5794	28-2			
Chloride	105		-	90-110	-		
General Chemistry - Westborough Lab	Associated sample(s): (01 Batch: W0	G579609-2				
ТРН	80		-	64-132	-		34



Matrix Spike Analysis

Project Name:	114 MOUNT AUBURN STREET	Batch Quality Control	Lab Number:	L1222526
Project Number:	4828.9.00		Report Date:	12/18/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery(F Qual	Recovery Limits	RPD Qua	RPD Limits
General Chemistry - Westh	oorough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	NG5791	65-4 C	C Sample: L1222	526-01	I Client ID): B-3 (OW)	
Chromium, Hexavalent	ND	0.1	0.095	95		-	-		85-115	-	20
General Chemistry - Westh	oorough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	NG5792	47-4 G	C Sample: L1222	513-02	2 Client ID	: MS Samp	le
Cyanide, Total	0.006	0.2	0.149	72	Q	-	-		90-110	-	30
General Chemistry - Westh	oorough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	NG5792	71-4 C	C Sample: L1222	518-01	I Client ID	: MS Samp	le
Phenolics, Total	0.10	0.8	0.97	109		-	-		77-124	-	12
Anions by Ion Chromatogra	aphy - Westborou	gh Lab Asso	ociated sar	nple(s): 01 QC	C Batch	ID: WG5	79428-3 QC Sa	mple: L	L1222526-0	01 Client II	D: B-3 (OW)
Chloride	1800	400	2200	104		-	-		40-151	-	18
General Chemistry - Westh	oorough Lab Asso	ciated samp	ole(s): 01	QC Batch ID: V	NG5796	09-4 G	C Sample: L1222	488-02	2 Client ID	: MS Samp	le
TPH	ND	21.1	11.9	56	Q	-	-		64-132	-	34



Lab Duplicate Analysis Batch Quality Control

Project Name:114 MOUNT AUBURN STREETProject Number:4828.9.00

 Lab Number:
 L1222526

 Report Date:
 12/18/12

Parameter	Native Sample	Duplicate San	nple Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579119-2	QC Sample: L12225	01-01 Clie	ent ID: DUP	Sample
рН	7.7	7.7	SU	0		5
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579165-3	QC Sample: L12225	26-01 Clie	ent ID: B-3 (OW)
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579247-3	QC Sample: L12225	13-02 Clie	ent ID: DUP	Sample
Cyanide, Total	0.006	0.005	mg/l	6		30
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579271-3	QC Sample: L12225	26-01 Clie	ent ID: B-3 (OW)
Phenolics, Total	0.05	0.03	mg/l	50	Q	12
Anions by Ion Chromatography - Westborough Lab Asso	ciated sample(s): 01 C	QC Batch ID: WG	579428-4 QC Sam	ple: L1222	2526-01 Clie	ent ID: B-3 (OW)
Chloride	1800	1800	mg/l	0		18
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579609-3	QC Sample: L12224	80-01 Clie	ent ID: DUP	Sample
ТРН	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated samp	le(s): 01 QC Batch ID:	WG579804-2	QC Sample: L12224	67-01 Clie	ent ID: DUP	Sample
Solids, Total Suspended	120	84	mg/l	35	Q	20



Project Name: 114 MOUNT AUBURN STREET Project Number: 4828.9.00

Lab Number: L1222526 **Report Date: 12/18/12**

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal Cooler

А

Absent

Container	Information
Container	information

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рΗ	deg C	Pres	Seal	Analysis(*)
L1222526-01A	Vial HCI preserved	А	N/A	2.3	Y	Absent	8260-SIM(14),8260(14)
L1222526-01B	Vial HCI preserved	А	N/A	2.3	Y	Absent	8260-SIM(14),8260(14)
L1222526-01C	Vial HCI preserved	А	N/A	2.3	Y	Absent	8260-SIM(14),8260(14)
L1222526-01D	Vial Na2S2O3 preserved	А	N/A	2.3	Y	Absent	504(14)
L1222526-01E	Vial Na2S2O3 preserved	А	N/A	2.3	Y	Absent	504(14)
L1222526-01F	Amber 1000ml unpreserved	А	7	2.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1222526-01G	Amber 1000ml unpreserved	А	7	2.3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1222526-01H	Amber 1000ml Na2S2O3	А	7	2.3	Y	Absent	PCB-608(7)
L1222526-011	Amber 1000ml Na2S2O3	А	7	2.3	Y	Absent	PCB-608(7)
L1222526-01J	Amber 1000ml HCl preserved	А	N/A	2.3	Y	Absent	TPH-1664(28)
L1222526-01K	Amber 1000ml HCl preserved	А	N/A	2.3	Y	Absent	TPH-1664(28)
L1222526-01L	Amber 1000ml H2SO4 preserved	А	<2	2.3	Y	Absent	TPHENOL-420(28)
L1222526-01M	Plastic 1000ml unpreserved	А	7	2.3	Y	Absent	TSS-2540(7)
L1222526-01N	Plastic 500ml unpreserved	А	7	2.3	Y	Absent	TRC-4500(1),PH-4500(.01)
L1222526-01O	Plastic 500ml unpreserved	А	7	2.3	Y	Absent	CL-300(28),HEXCR-3500(1)
L1222526-01P	Plastic 250ml NaOH preserved spl	А	>12	2.3	Y	Absent	TCN-4500(14)
L1222526-01Q	Plastic 250ml HNO3 preserved	A	<2	2.3	Y	Absent	SE-6020T(180),CR- 6020T(180),NI-6020T(180),CU- 6020T(180),ZN-6020T(180),FE- UI(180),PB-6020T(180),HG- U(28),AS-6020T(180),SB- 6020T(180),AG-6020T(180),CD- 6020T(180)
L1222526-01X	Amber 1000ml unpreserved	А	7	2.3	Y	Absent	8270TCL(7)
L1222526-01Y	Vial Na2S2O3 preserved	А	N/A	2.3	Y	Absent	504(14)
L1222526-01Z	Amber 1000ml unpreserved	А	7	2.3	Y	Absent	8270TCL(7)

Container Comments

L1222526-01Q



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526

Report Date: 12/18/12

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.
- NI Not Ignitable.
- 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.

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

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 five times (5x) 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. 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 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.
- 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 RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: Data Usability Report



Project Name: 114 MOUNT AUBURN STREET

Project Number: 4828.9.00

Lab Number: L1222526

Report Date: 12/18/12

Data Qualifiers

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.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- **ND** Not detected at the reporting limit (RL) for the sample.



 Lab Number:
 L1222526

 Report Date:
 12/18/12

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

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.



Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. NELAP Accredited Solid Waste/Soil.

Drinking Water (<u>Inorganic Parameters</u>: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. <u>Organic Parameters</u>: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). <u>Microbiology Parameters</u>: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. <u>Organic Parameters</u>: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. <u>Microbiology Parameters</u>: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. <u>Organic Parameters</u>: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. <u>Organic</u> <u>Parameters</u>: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. <u>Organic Parameters</u>: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (<u>Inorganic Parameters</u>: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. <u>Organic Parameters</u>: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,TI) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. <u>Organic Parameters</u>: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. <u>Microbiology Parameters</u>: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Page 59 of 63 Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: AI,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,TI,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,TI,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

<u>Organic Parameters</u>: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: 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-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. <u>Microbiology Parameters</u>: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services <u>Certificate/Lab ID</u>: 200307. *NELAP Accredited. Drinking Water* (<u>Inorganic Parameters</u>: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. <u>Organic Parameters</u>: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. <u>Organic Parameters</u>: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (<u>Inorganic Parameters</u>: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. <u>Organic Parameters</u>: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited. Drinking Water* (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. <u>Organic Parameters</u>: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. <u>Organic Parameters</u>: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. <u>Organic Parameters</u>: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. <u>Organic Parameters</u>: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 9086 \$3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources <u>Certificate/Lab ID</u>: 666. (<u>Inorganic</u> <u>Parameters</u>: SM2310B, 2320B, 4500CI-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. <u>Organic Parameters</u>: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program <u>Certificate/Lab ID</u>: 25700. (<u>Inorganic Parameters</u>: Chloride EPA 300.0. <u>Organic Parameters</u>: 524.2)

Pennsylvania Department of Environmental Protection <u>Certificate/Lab ID</u>: 68-03671. *NELAP Accredited. Drinking Water* (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500CI-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. <u>Organic Parameters</u>: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health <u>Certificate/Lab ID</u>: LAO00065. *NELAP Accredited via NJ-DEP*. Refer to MA-DEP Certificate for Potable and Non-Potable Water. Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality <u>Certificate/Lab ID</u>: T104704476-09-1. *NELAP Accredited. Non-Potable Water* (<u>Inorganic Parameters</u>: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. <u>Organic Parameters</u>: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services <u>Certificate/Lab ID</u>: 460195. *NELAP Accredited. Drinking Water* (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. <u>Organic Parameters</u>: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. <u>Organic Parameters</u>: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (<u>Inorganic Parameters</u>: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. <u>Organic Parameters</u>: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B <u>Certificate/Lab ID</u>: L2217. *Drinking Water* (Inorganic Parameters: SM 4500H-B. <u>Organic Parameters</u>: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. <u>Organic Parameters</u>: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (<u>Inorganic Parameters</u>: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, <u>Organic Parameters</u>: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

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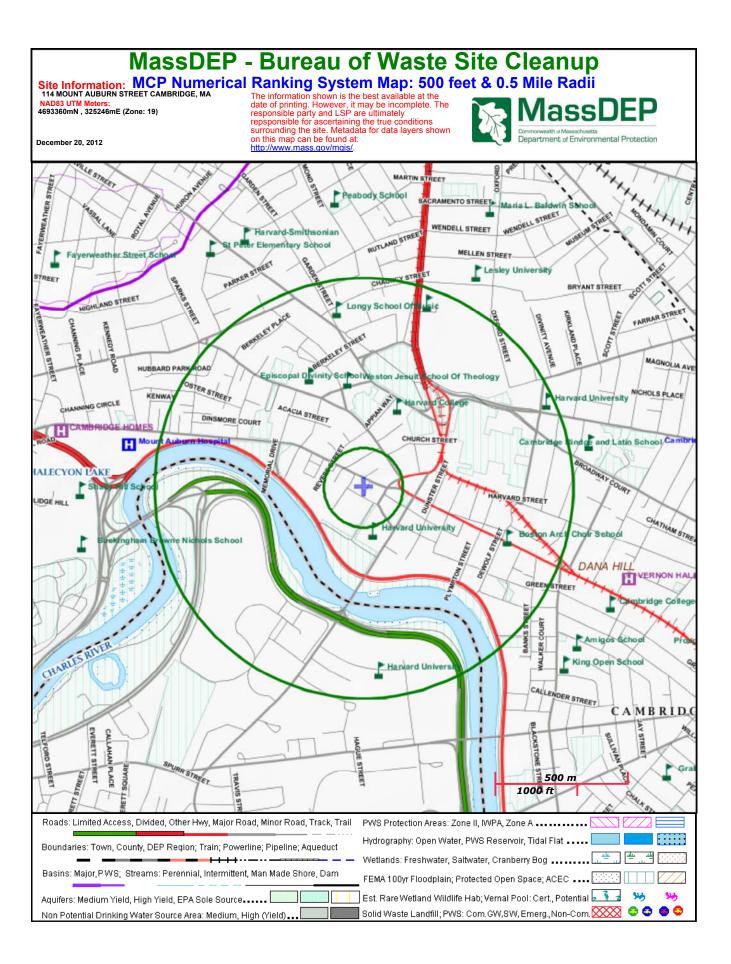
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ATTACHMENT D

ASSESSMENT OF DEP-LISTED SITES

The DEP on-line waste site database indicates that there are three (3) DEP listed sites within 500 feet of the subject site. For two (2) of the sites, the releases of OHM which triggered notification to the DEP have achieved a Class A-2 Response Action Outcome (RAO) statement. A Class A-2 RAO indicates that response actions were performed at the site which resulted in a Permanent Solution to the release of which a Condition of No Significant Risk exists at the site. The remaining site, located at the intersection of Brattle Street and Mount Auburn Street, has not achieved an RAO statement but a URAM Completion Report was filed with the DEP in January 2008. Based on the reported DEP status, the surrounding disposal sites are not considered to pose a threat of impact to the groundwater dewatering activities at the subject site.



MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN June 2009

Total Approximate Acreage: 268,000 acres Approximate acreage and designation date follow ACEC names below.

Bourne Back River (1,850 acres, 1989) Bourne

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

Cedar Swamp (1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley (12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed (1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor (600 acres, 1980) Plymouth

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

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

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

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

Herring River Watershed (4,450 acres, 1991) Bourne and Plymouth

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

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

Inner Cape Cod Bay (2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin (1,350 acres, 1995) Lee and Stockbridge Karner Brook Watershed (7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds (8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary (1,300 acres, 1995) Boston, Milton, and Quincy

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

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

Pocasset River (160 acres, 1980) Bourne

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

Sandy Neck Barrier Beach System (9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin (13,750 acres, 1990) Mount Washington and Sheffield

Squannassit

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

Three Mile River Watershed (14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River (12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay (2,580 acres, 1979) Falmouth and Mashpee

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

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

Weymouth Back River (800 acres, 1982) Hingham and Weymouth

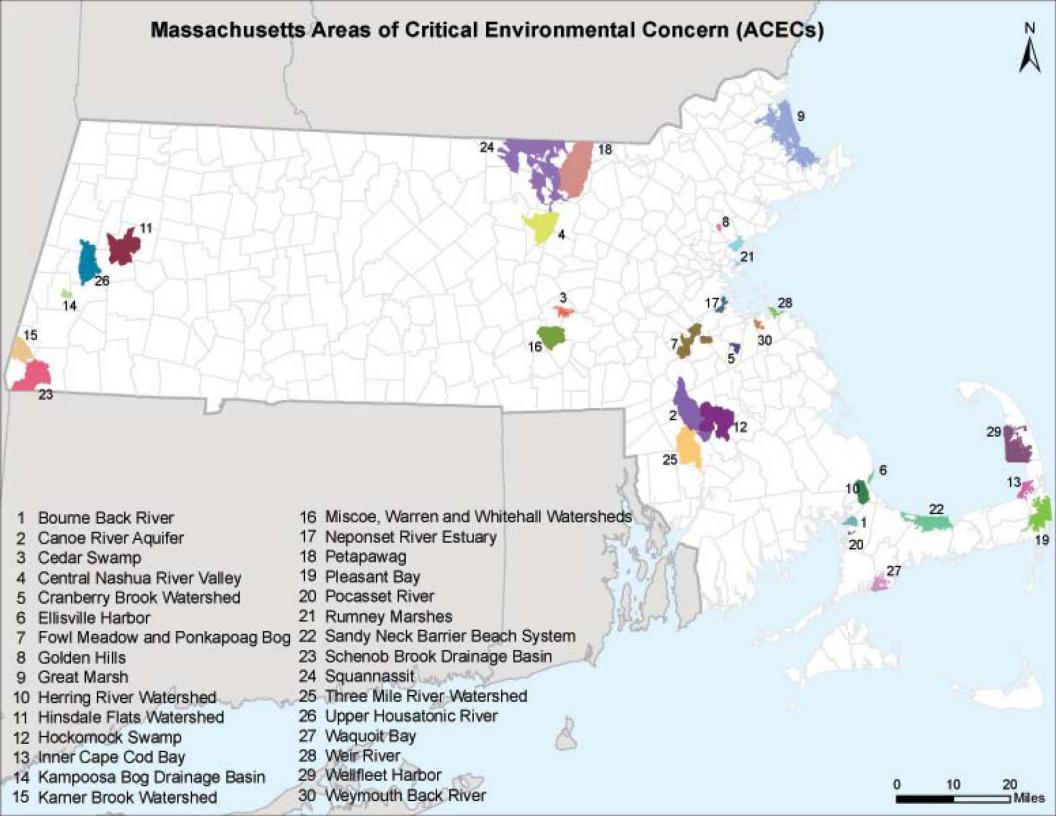
ACEC acreages above are based on MassGIS calculations and may differ from numbers originally presented in designation documents and other ACEC publications due to improvements in accuracy of GIS data and boundary clarifications. Listed acreages have been rounded to the nearest 50 or 10 depending on whether boundary clarification has occurred. For more information please see, http://www.mass.gov/dcr/stewardship/acec/aboutMaps.htm.

Towns with ACECs within their Boundaries

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June 2009

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay	0	Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall	Truro	Wellfleet Harbor
	Watersheds	Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
Croton	Squannassit	Upton	Miscoe-Warren-Whitehall
Harvard	Central Nashua River Valley	• • • • • •	Watersheds
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River	i aoning ton	Upper Housatonic River
ringnam	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall	Westwood	Fowl Meadow and Ponkapoag Bog
порклюп	Watersheds	Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River	Windhop	Rannoy Marcheo
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
Lanouster	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
Lee	Upper Housatonic River		
Lenox			
Leominster	Upper Housatonic River Central Nashua River Valley		
Lunenburg	Squannassit Rumpov Marchos		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
	Waquoit Bay		
Mashpee			
Mashpee Melrose	Golden Hills		
Mashpee			



FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

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

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

7/31/2008



APPENDIX E

AREAS OF CRITICAL CONCERN, ENDANGERED AND THREATENED SPECIES

There are no surface water bodies or wetlands located within the subject site boundaries. The nearest surface water body is the Charles River, located about 800 feet to the south of the subject site. Groundwater at the subject site is not considered a current or a potential source of drinking water, and the subject site is not located within minimum distances from drinking water sources as prescribed by the MCP. There are no known public or private drinking water supply wells located within the boundaries of the subject site nor are such wells known to be located within 0.5 miles of the subject site. The site is not located within Zone II, Interim Wellhead Protection Area or within Zone A of a Class A surface water reservoir. There are no Areas of Critical Environmental Concern (ACEC) located within the site boundaries.

A review of the federal listing of threatened and endangered species published by the U.S. Fish and Wildlife Service identified no threatened and/or endangered species or critical habitats at or in the vicinity of the discharge location and/or discharge outfall. In addition, a review of the Massachusetts Division of Fisheries and Wildlife on-line database identified no threatened or endangered species at the point of discharge and/or the discharge outfall.

Based upon the above, the site is considered criterion A pursuant to Appendix III of the DGP.



APPENDIX F

NATIONAL REGISTER OF HISTORIC PLACES

The National Register of Historic Places on-line database was reviewed for listings located within the immediate vicinity of the subject site in Boston, Massachusetts. A review of the most recent National Register of Historical Places for Middlesex County, Massachusetts did not identify records or addresses of Historic Places that exist in the immediate vicinity of the outfall location. The nearest listing of a National Historic Place to the subject site is the Harvard Square Historic District located approximately 1000 feet to the northeast of the subject site. We do not anticipate that dewatering activities at the subject site will affect the Harvard Square Historic District.

Based upon the above, the site is considered Criterion 1 pursuant to Appendix III of the DGP.