



Ms. Olga Vergara
EPA-Region 1
Office of Ecosystem Protection (OEP06-3)
5 Post Office Square
Boston, Massachusetts, 02109-3912

Subject:

Notice of Intent (NOI) – Dewatering General Permit (DGP) and
MassDEP BRP WM-10 Permit for Construction or Foundation Dewatering
699 Washington Street
Norwood, Massachusetts

Dear Ms. Vergara:

Pursuant to the National Pollutant Discharge Elimination System (NPDES) regulations, ARCADIS U.S., Inc (ARCADIS) has prepared this Notice of Intent (NOI) for a Dewatering General Permit for the above referenced site (the Site). The Site is owned by Bank of America and is an active bank branch. There is a sump in the basement of the building with a discharge to a nearby storm water drain, which is currently permitted as a Remediation General Permit (RGP). The discharge water has been treated due to a No. 2 fuel oil release at the Site. The discharge no longer requires treatment for the former oil release and a Dewatering General Permit (DGP) is sought to remove the water that accumulates in the basement sump.

The NOI application has been filed electronically to the designated United States Environmental Protection Agency (EPA) email address for a DGP application and sent to the Massachusetts Department of Environmental Protection (MassDEP). Attached to this letter is the suggested NOI form (Attachment A). The following text addresses requirements of the NOI that could not specifically be addressed on the NOI form. Note that if the response is clear on the NOI form, no additional information is provided in the following response. Once the permit request is approved, a Notice of Termination (NOT) will be prepared for the RGP to close that permit.

ARCADIS U.S., Inc.
194 Forbes Road
Braintree
Massachusetts 02184
Tel 781.356.7300
Fax 781.356.2211
www.arcadis-us.com

Environment

Date:
November 8, 2011

Contact:
Allen Walker

Phone:
781-356-7300

Email:
allen.walker@arcadis-us.com

Our ref:
HT116915.0001

Imagine the result

Use or disclosure of information contained on this sheet is subject to the restriction and disclaimer located on the signature page of this document.

1 – General Facility Information

1 d - Topographic Map of Site and Outfall

The Site is located in the downtown area of Norwood, which is serviced by a network of storm water drains. Attachment B is a topographic map indicating the Site location and the location of the outfall. Note that the discharge from the Site is to a nearby storm water drain, which discharges to Meadow Brook located approximately 1,100 feet southeast of the Site.

1 e – Prior NPDES Permit at the Site

As noted previously, there is a sump in the basement of the building with a discharge to a nearby storm water drain, which is currently permitted as a RGP. The discharge water has been treated due to a No. 2 fuel oil release at the Site. The discharge no longer requires treatment for the former oil release and a DGP is sought to remove the water that accumulates in the basement sump. The permit No. for the RGP permit is MAG910072. Once the DGP permit takes effect, a NOT will be filed for the RGP permit.

2 – Discharge Information

2 b – Describe Discharge Activity

This application is for long-term dewatering of a foundation sump.

2 f – Source of the Discharge and if Groundwater, Effluent Test Results

The source of the discharge is groundwater and as required by the NPDES DGP General Permit provisions, the effluent or discharge water was sampled as required by Section 4.4.5 of the General Permit for: antimony, arsenic, cadmium, chromium (total), chromium (VI), chloride, copper, iron, mercury, nickel, silver, zinc and pH. The receiving water was also sampled for hardness.

For the discharge water (influent to the treatment system), the metals analysis results were non-detectable (ND) except for copper at a concentration of 310 milligrams per liter (mg/l), iron at 14,000 mg/l and zinc at 650 mg/l. The chloride concentration was 140 mg/l and the pH was 6.28. This sampling occurred on August 31, 2011 and the laboratory report is included as Attachment C.

The hardness of the receiving water (outfall) was 95 mg/l, which was sampled on September 30, 2011 during the normal monthly sampling. A copy of the laboratory report for the outfall sample is included as Attachment C.

The iron and zinc concentration have been variable and typically historically high in the discharge water as monitored during the operation of the RGP permit. It was suspected that these results may be affected by the sump itself as the sump is metal lined and there are a number of metal pipes within the sump, many of which are rusting. Therefore, ARCADIS sampled two monitoring wells at the Site on September 30, 2011, one in an upgradient location to the on-Site building and one downgradient of the building. These wells are identified as monitoring wells MW-7 (upgradient) and MW-4 (downgradient). The well locations are indicated on a Site Plan included as Attachment D. The following are the iron and zinc results:

- MW-7: iron: 100 mg/l and zinc: ND with a detection limit of 50 mg/l.
- MW-4: iron: 230 mg/l and zinc: ND with a detection limit of 50 mg/l.

These monitoring well results support the theory that the sump water is affected by the metal within the sump chamber. The RGP treatment system includes a resin filter for metals treatment. A copy of the laboratory report for the monitoring well results is included as Attachment C.

2 g – What Treatment Does the Wastewater Receive Prior to Discharge

As set forth previously, the water is currently treated under an RGP permit. A two-phase groundwater treatment system was installed to treat the water that collected in the basement sump. The petroleum-affected water from the sump was pumped to two 200-pound liquid phase activated carbon vessels in series for treatment. In 2007 a resin filter was added to the treatment system due to metal concentrations exceeding discharge limits. The treated water then flows through a cartridge filter prior to discharge.

For this DGP, the metals will continue to be treated using the existing resin filter and the carbon filters will either be removed or bypassed. Updates to the sump to remove the metal components may be conducted to remove the need to treat the water.

2 i – Identify Discharges within 100 feet of the Site.

The website referenced in this question was followed, but the website indicated that the data is not longer available.

3 – Contaminant Information

3-a: Are any pH or De-Chlorination Chemicals Used in this Discharge?

There is no pH or de-chlorination treatment of the water at the Site.

3-b: Report any known remediation activities or water-quality based issue in the vicinity of the discharge.

The Site had a fuel oil release from a former 1,000-gallon underground storage tank (UST) located off the west corner of the building. With regards to groundwater flow, this UST was upgradient of the building. In March 2001 fuel oil was discovered in the building's basement sump that was thought to come from the fuel oil UST. The release was reported to the MassDEP on March 30, 2001 and Release Tracking Number (RTN) 4-3020547 was assigned to the release. This 1,000-gallon fuel oil UST was then removed in May 2001 and during the removal of the UST a release of fuel oil was discovered and approximately 180 tons of petroleum-affected soil was excavated for disposal. In November 2001 an additional 4.15 tons of soil were excavated from below the basement of the building between the furnace and hallway area. This excavation was limited due to refusal on apparent bedrock at 6 to 24 inches below grade.

A two-phase groundwater treatment system was installed to treat the water that collected in the basement sump. The petroleum-affected water from the sump was pumped to two 200-pound liquid phase activated carbon vessels in series for treatment. In 2007 a resin filter was added to the treatment system due to metal concentrations exceeding discharge limits. The treated water then flows through a cartridge filter prior to discharge to a nearby storm water drain, which was permitted as a RGP. A Class A-2 Response Action Outcome (RAO) was filed with the Massachusetts Department of Environmental Protection (MassDEP) to close out this release and a DGP is now requested to remove the water that accumulates in the basement sump.

4 – Determination of Endangered Species Act (ESA) Eligibility

4-a: Are any threatened or endangered species, or designated critical habitat, in proximity to the discharge?

There are no endangered species or designated critical habitat in proximity to the discharge area.

4-b: Has any consultation with the federal services been completed?

There was no consultation with the federal services as there are no endangered species or designated critical habitat in proximity to the discharge area. Though, Appendix III of the DGP was followed and Criterion A was found to be applicable. As noted in Criterion A, a copy of the most current county ESA list is included as Attachment E. The MassDEP Priority Resource Map was also reviewed, which indicated that there are no areas of critical environmental concern in the discharge area.

4-c: Is consultation under way?

No consultation is underway associated with the ESA as noted in the response to 4 b.

4-d: What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service?

There was no consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service as there are no endangered species or designated critical habitat in proximity to the discharge area as set forth previously. A “no jeopardy” opinion was checked on the NOI form.

4-e: Which of the five eligibility criteria listed in Appendix 2, Section G (A, B, C, D or E) have you met?

Eligibility criterion A was met for this ESA determination as there are no endangered species or designated critical habitat in proximity to the discharge area.

4-f: Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

A copy of the most current county ESA list is included as Attachment E.

5 – Documentation of National Historic Preservation Act Requirements

5-a: Are any historic properties listed or eligible for listing on the National Registry of Historic Places located at the facility or in proximity to the discharge?

There are no historic properties listed at the Site or in proximity of the discharge. The National Registry of Historic Places was reviewed and the print out of the two properties that were listed is included as Attachment F.

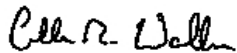
6 – Supplemental Information

The MassDEP Transmittal Form for Permit Application and Payment is included as Attachment G. The other supplemental information is set forth in this letter and/or in the attachments.

Please call us if you have any questions regarding this matter.

Sincerely,

ARCADIS U.S., Inc.

A handwritten signature in black ink, appearing to read "Allen R. Walker".

Allen R. Walker, P. E., LSP
Principal Environmental Engineer

Attachments:

- A – NOI Form.
- B – Topographic Map.
- C – Laboratory Reports of Discharge & Monitoring Well and Receiving Water.
- D – Site Plan Indicating the Monitoring Well Locations.
- E - Most Current County Endangered Species Act (ESA) List.
- F – National Registry of Historic Places listing for Norwood, MA.
- G - MassDEP Transmittal Form for Permit Application and Payment.



ATTACHMENT A

NOI Form.

II. Suggested Notice of Intent (NOI) Form

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

a) Name of facility: Bank of America		Mailing Address for the Facility: Bank of America, N.A., C/O Dennis McInerney, Corp. Workplace Environmental Risk, Mail Stop CT2-545-01-02, 200 Glastonbury Blvd., Glastonbury, CT 06033	
b) Location Address of the Facility (if different from mailing address): Bank of America, Bank Branch MA6-288, 699 Washington Street, Norwood, MA 02062	Facility Location longitude: <u>71.12.07 W</u> latitude: <u>42.11.33.N</u>		Type of Business: Bank branch.
			Facility SIC codes: 6021
c) Name of facility owner: <u>Bank of America</u>		Owner's email: <u>dennis.p.mcinerney@bankofamerica.com</u>	
Owner's Tel #: <u>646-556-0759</u>		Owner's Fax #: <u>704-804-5326</u>	
Address of owner (if different from facility address)			
Owner is (check one): 1. Federal ____ 2. State ____ 3. Tribal ____ 4. Private ☒ 4. Other ____ (Describe)			
Legal name of Operator, if not owner: <u>ARCADIS U.S., Inc.</u>			
Operator Contact Name: <u>Allen Walker</u>			
Operator Tel Number: <u>(781) 356-7300</u> Fax Number: <u>(781) 356-2211</u>			
Operator's email: <u>allen.walker@arcadis-us.com</u>			
Operator Address (if different from owner)			
Arcadis U.S., Inc., 194 Forbes Road, Braintree, MA 02184			
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? ☒			
e) Check Yes or No for the following:			
1. Has a prior NPDES permit been granted for the discharge? Yes ☒ No ____ If Yes, Permit Number: <u>MAG910072</u>			
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ____ No ☒			
3. Is the facility covered by an individual NPDES permit? Yes ____ No ☒ If Yes, Permit Number ____			
4. Is there a pending application on file with EPA for this discharge? Yes ____ No ☒ If Yes, date of submittal: ____			

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

a) Name of receiving water into which discharge will occur: Meadow Brook

State Water Quality Classification: Class B Freshwater: Yes Marine Water: No

b) Describe the discharge activities for which the owner/applicant is seeking coverage:

1. Construction dewatering of groundwater intrusion and/or storm water accumulation.

② Short-term or long-term dewatering of foundation sumps.

3. Other.

c) Number of outfalls 1

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 228 GPD
Average Monthly Flow 1,140 GPD

e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 7.87 Min pH 6.86

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. See attached.

g) What treatment does the wastewater receive prior to discharge? Resin filter for metals.

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 350 and the specific months of discharge All months, but some dry times. ;

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

Is the discharge temporary? Yes _____ No ✓

If yes, approximate start date of dewatering _____ approximate end date of dewatering _____

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

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

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

- k) Does the discharge occur in an ACEC? Yes _____ No ☒
 If yes, provide the name of the ACEC: _____

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC₅₀ in percent for aquatic organism(s)). *Not applicable.*
b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. *See attached.*

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 ☒
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? A
f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website. *See attached.*

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 or 3) 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: Bank of America, Bank Branch MA6-288, 699 Washington Street, Norwood, MA

Operator signature: *Allen Walker*

Title: Principal Environmental Engineer

Date: 11/7/11

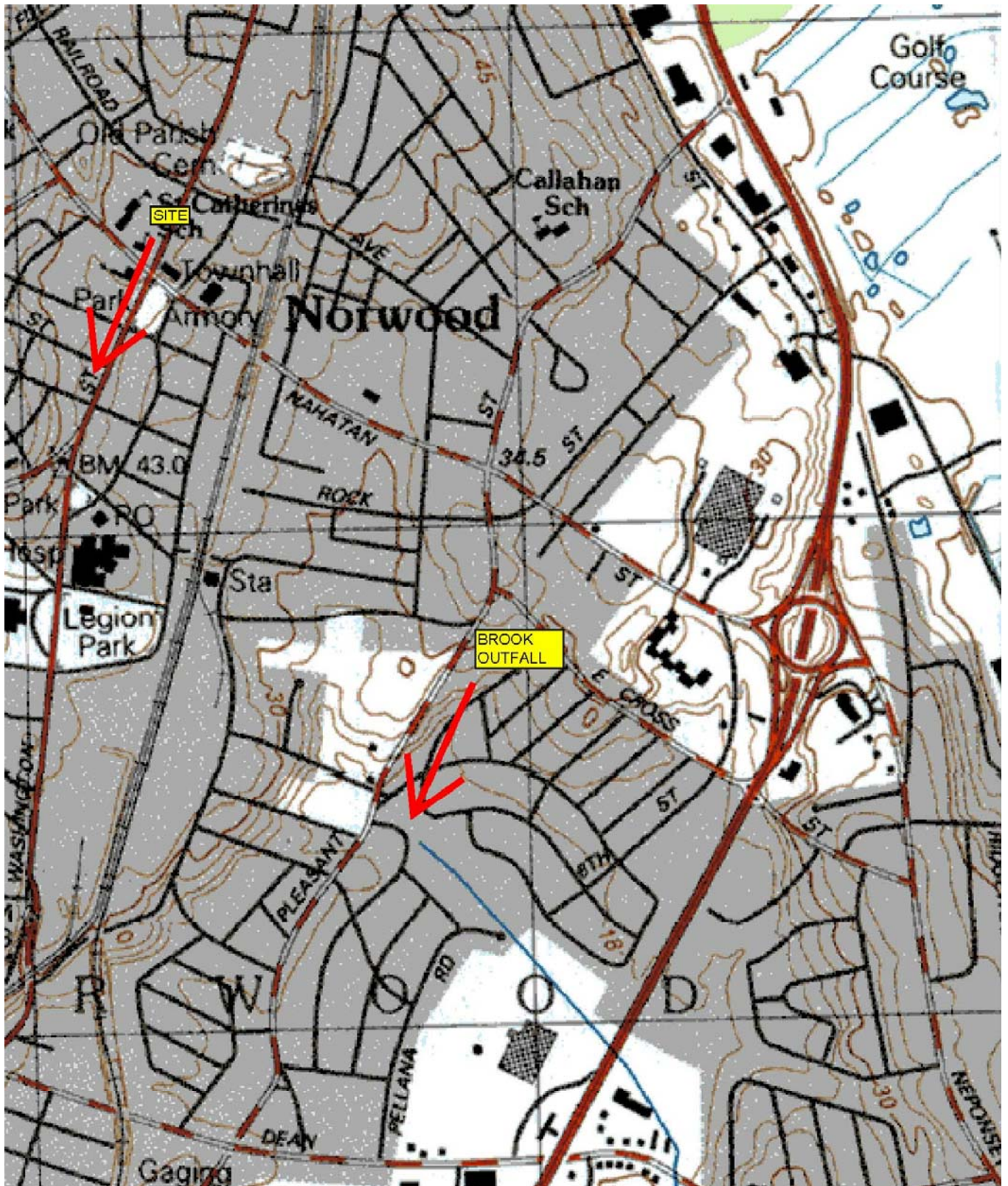
Federal regulations require this application to be signed as follows:

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



ATTACHMENT B

Topographic Map



699 WASHINGTON STREET
NORWOOD, MASSACHUSETTS

SITE LOCATION MAP



FIGURE
1



ATTACHMENT C

Laboratory Reports of Discharge
& Monitoring Well and Receiving
Water

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

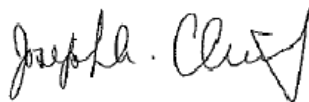
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-36045-1
Client Project/Site: HT116915.0001

For:

ARCADIS U.S., Inc
194 Forbes Road
Braintree, Massachusetts 02184

Attn: Mr. Mike Baer



Authorized for release by:

09/08/2011 11:01:46 AM

Joe Chimi

Report Production Representative

joe.chimi@testamericainc.com

Designee for

Becky Mason

Project Manager II

becky.mason@testamericainc.com

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www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Case Narrative

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Job ID: 360-36045-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/31/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.9 C.

TOTAL METALS (ICP)

Sample INF 8-31-11 (360-36045-1) was analyzed for total metals (ICP) in accordance with EPA Method 200.7. The sample was prepared and analyzed on 09/01/2011 and 09/02/2011.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY (CVAA)

Sample INF 8-31-11 (360-36045-1) was analyzed for total mercury (CVAA) in accordance with EPA Method 245.1. The sample was prepared and analyzed on 09/01/2011.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

HARDNESS

Sample INF 8-31-11 (360-36045-1) was analyzed for hardness in accordance with SM20 2340B. The sample was analyzed on 09/01/2011.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

ANIONS (28 DAY HOLD TIME)

Sample INF 8-31-11 (360-36045-1) was analyzed for anions (28 day hold time) in accordance with EPA Method 300.0. The sample was analyzed on 09/06/2011.

Chloride failed the recovery criteria high for the MS of sample INF 8-31-11 (360-36045-1) in batch 360-79632 and exceeded the rpd limit for the MSD of sample INF 8-31-11MSD (360-36045-1) in batch 360-79632. The associated LCS recovered within control limits. Refer to the QC report for details.

Sample INF 8-31-11 (360-36045-1)[50X] required dilution prior to analysis due to high concentration. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

Case Narrative

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Job ID: 360-36045-1 (Continued)

Laboratory: TestAmerica Westfield (Continued)

HEXAVALENT CHROMIUM

Sample INF 8-31-11 (360-36045-1) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The sample was analyzed on 09/01/2011.

Sample INF 8-31-11 (360-36045-1)[5X] required dilution prior to analysis due to matrix interference. The reporting limits have been adjusted accordingly. The sample required laboratory refiltration to reduce interferences. The sample was cloudy or unclear, most likely due to high turbidity.

No difficulties were encountered during the hexavalent chromium analysis.

All quality control parameters were within the acceptance limits.

PH

Sample INF 8-31-11 (360-36045-1) was analyzed for pH in accordance with SM20 4500 H+ B. The sample was analyzed on 09/01/2011.

No difficulties were encountered during the pH analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Client Sample ID: INF 8-31-11

Lab Sample ID: 360-36045-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	14000		100		ug/L	1		200.7 Rev 4.4	Total/NA
Copper	310		10		ug/L	1		200.7 Rev 4.4	Total/NA
Zinc	650		50		ug/L	1		200.7 Rev 4.4	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	89		2.6		mg/L	1		SM 2340B	Total/NA
Chloride	140		50		mg/L	50		300.0	Total/NA
pH	6.28	HF	0.100		SU	1		SM 4500 H+ B	Total/NA

Method Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL WFD
245.1	Mercury (CVAA)	EPA	TAL WFD
SM 2340B	Hardness, Calculation	SM	TAL WFD
300.0	Anions, Ion Chromatography	MCAWW	TAL WFD
7196A	Chromium, Hexavalent	SW846	TAL WFD
SM 4500 H+ B	pH	SM	TAL WFD

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-36045-1	INF 8-31-11	Water	08/31/11 10:25	08/31/11 16:00

1

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Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Client Sample ID: INF 8-31-11

Date Collected: 08/31/11 10:25

Date Received: 08/31/11 16:00

Lab Sample ID: 360-36045-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0		ug/L		09/01/11 08:45	09/01/11 14:59	1
Cadmium	ND		1.0		ug/L		09/02/11 07:08	09/02/11 12:45	1
Antimony	ND		6.0		ug/L		09/01/11 08:45	09/01/11 14:59	1
Iron	14000		100		ug/L		09/01/11 08:45	09/01/11 14:59	1
Nickel	ND		10		ug/L		09/01/11 08:45	09/01/11 14:59	1
Arsenic	ND		10		ug/L		09/01/11 08:45	09/01/11 14:59	1
Copper	310		10		ug/L		09/01/11 08:45	09/01/11 14:59	1
Zinc	650		50		ug/L		09/01/11 08:45	09/01/11 14:59	1
Chromium	ND		5.0		ug/L		09/01/11 08:45	09/01/11 14:59	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 245.1 - Mercury (CVAA)

Client Sample ID: INF 8-31-11
Date Collected: 08/31/11 10:25
Date Received: 08/31/11 16:00

Lab Sample ID: 360-36045-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20		ug/L		09/01/11 10:03	09/01/11 15:21	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: SM 2340B - Hardness, Calculation

Client Sample ID: INF 8-31-11

Date Collected: 08/31/11 10:25

Date Received: 08/31/11 16:00

Lab Sample ID: 360-36045-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	89		2.6		mg/L			09/01/11 14:59	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

General Chemistry

Client Sample ID: INF 8-31-11

Date Collected: 08/31/11 10:25

Date Received: 08/31/11 16:00

Lab Sample ID: 360-36045-1

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		50		mg/L			09/06/11 20:03	50
Chromium, hexavalent	ND		0.025		mg/L			09/01/11 08:56	5
pH	6.28	HF	0.100		SU			09/01/11 17:55	1

Definitions/Glossary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Metals

Prep Batch: 79329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	200.7	
LCS 360-79329/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 360-79329/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 360-79329/1-A	Method Blank	Total/NA	Water	200.7	

Prep Batch: 79355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	245.1	
LCS 360-79355/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 360-79355/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
MB 360-79355/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 79391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	245.1	79355
LCS 360-79355/2-A	Lab Control Sample	Total/NA	Water	245.1	79355
LCSD 360-79355/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	79355
MB 360-79355/1-A	Method Blank	Total/NA	Water	245.1	79355

Analysis Batch: 79399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	200.7 Rev 4.4	79329
LCS 360-79329/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	79329
LCSD 360-79329/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	79329
MB 360-79329/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	79329

Prep Batch: 79412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	200.7	
360-36045-1 DU	INF 8-31-11	Total/NA	Water	200.7	
360-36045-1 MS	INF 8-31-11	Total/NA	Water	200.7	
LCS 360-79412/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 360-79412/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 360-79412/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 79477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	200.7 Rev 4.4	79412
360-36045-1 DU	INF 8-31-11	Total/NA	Water	200.7 Rev 4.4	79412
360-36045-1 MS	INF 8-31-11	Total/NA	Water	200.7 Rev 4.4	79412
LCS 360-79412/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	79412
LCSD 360-79412/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	79412
MB 360-79412/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	79412

Analysis Batch: 79551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	SM 2340B	
MB 360-79551/5	Method Blank	Total/NA	Water	SM 2340B	

QC Association Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

General Chemistry

Analysis Batch: 79331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	7196A	
360-36045-1 MS	INF 8-31-11	Total/NA	Water	7196A	
360-36045-1 MSD	INF 8-31-11	Total/NA	Water	7196A	
LCS 360-79331/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 360-79331/11	Lab Control Sample Dup	Total/NA	Water	7196A	
MB 360-79331/9	Method Blank	Total/NA	Water	7196A	

Analysis Batch: 79483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	SM 4500 H+ B	
LCS 360-79483/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 79632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36045-1	INF 8-31-11	Total/NA	Water	300.0	
360-36045-1 MS	INF 8-31-11	Total/NA	Water	300.0	
360-36045-1 MSD	INF 8-31-11	Total/NA	Water	300.0	
LCS 360-79632/4	Lab Control Sample	Total/NA	Water	300.0	
MB 360-79632/3	Method Blank	Total/NA	Water	300.0	

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 360-79329/1-A

Matrix: Water

Analysis Batch: 79399

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 79329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		5.0		ug/L		09/01/11 08:45	09/01/11 14:27	1
Antimony	ND		6.0		ug/L		09/01/11 08:45	09/01/11 14:27	1
Iron	ND		100		ug/L		09/01/11 08:45	09/01/11 14:27	1
Nickel	ND		10		ug/L		09/01/11 08:45	09/01/11 14:27	1
Arsenic	ND		10		ug/L		09/01/11 08:45	09/01/11 14:27	1
Copper	ND		10		ug/L		09/01/11 08:45	09/01/11 14:27	1
Zinc	ND		50		ug/L		09/01/11 08:45	09/01/11 14:27	1
Chromium	ND		5.0		ug/L		09/01/11 08:45	09/01/11 14:27	1

Lab Sample ID: LCS 360-79329/2-A

Matrix: Water

Analysis Batch: 79399

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 79329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Silver	1000	1040		ug/L		104	85 - 115
Antimony	1000	992		ug/L		99	85 - 115
Iron	5000	5550		ug/L		111	85 - 115
Nickel	1000	1090		ug/L		109	85 - 115
Arsenic	1000	1080		ug/L		108	85 - 115
Copper	1000	1020		ug/L		102	85 - 115
Zinc	1000	1110		ug/L		111	85 - 115
Chromium	1000	1090		ug/L		109	85 - 115

Lab Sample ID: LCSD 360-79329/3-A

Matrix: Water

Analysis Batch: 79399

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 79329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Silver	1000	1050		ug/L		105	85 - 115	1	20
Antimony	1000	1010		ug/L		101	85 - 115	1	20
Iron	5000	5650		ug/L		113	85 - 115	2	20
Nickel	1000	1110		ug/L		111	85 - 115	2	20
Arsenic	1000	1080		ug/L		108	85 - 115	1	20
Copper	1000	1050		ug/L		105	85 - 115	3	20
Zinc	1000	1130		ug/L		113	85 - 115	1	20
Chromium	1000	1100		ug/L		110	85 - 115	1	20

Lab Sample ID: MB 360-79412/1-A

Matrix: Water

Analysis Batch: 79477

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 79412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		09/02/11 07:08	09/02/11 12:36	1

Lab Sample ID: LCS 360-79412/2-A

Matrix: Water

Analysis Batch: 79477

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 79412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Cadmium	1000	1070		ug/L		107	85 - 115

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 360-79412/3-A

Matrix: Water

Analysis Batch: 79477

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 79412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Cadmium	1000	1040		ug/L		104	85 - 115	3	20

Lab Sample ID: 360-36045-1 MS

Matrix: Water

Analysis Batch: 79477

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Prep Batch: 79412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Cadmium	ND		1000	982		ug/L		98	70 - 130

Lab Sample ID: 360-36045-1 DU

Matrix: Water

Analysis Batch: 79477

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Prep Batch: 79412

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	ND		ND		ug/L		NC	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 360-79355/1-A

Matrix: Water

Analysis Batch: 79391

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 79355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20		ug/L		09/01/11 10:03	09/01/11 14:59	1

Lab Sample ID: LCS 360-79355/2-A

Matrix: Water

Analysis Batch: 79391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 79355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	5.00	4.79		ug/L		96	85 - 115

Lab Sample ID: LCSD 360-79355/3-A

Matrix: Water

Analysis Batch: 79391

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 79355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	5.00	4.76		ug/L		95	85 - 115	1	20

Method: SM 2340B - Hardness, Calculation

Lab Sample ID: MB 360-79551/5

Matrix: Water

Analysis Batch: 79551

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.6		mg/L			09/01/11 14:27	1

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 360-79632/3

Matrix: Water

Analysis Batch: 79632

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/06/11 19:31	1

Lab Sample ID: LCS 360-79632/4

Matrix: Water

Analysis Batch: 79632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	40.0	41.0		mg/L		103	85 - 115

Lab Sample ID: 360-36045-1 MS

Matrix: Water

Analysis Batch: 79632

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chloride	140		500	813	F	mg/L		134	75 - 125

Lab Sample ID: 360-36045-1 MSD

Matrix: Water

Analysis Batch: 79632

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chloride	140		500	585	F	mg/L		88	75 - 125	33	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 360-79331/9

Matrix: Water

Analysis Batch: 79331

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.0050		mg/L			09/01/11 08:56	1

Lab Sample ID: LCS 360-79331/10

Matrix: Water

Analysis Batch: 79331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium, hexavalent	0.0500	0.0520		mg/L		104	80 - 120

Lab Sample ID: LCSD 360-79331/11

Matrix: Water

Analysis Batch: 79331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.0500	0.0520		mg/L		104	80 - 120	0	20

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 360-36045-1 MS

Matrix: Water

Analysis Batch: 79331

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium, hexavalent	ND		0.125	0.108		mg/L		86	75 - 125

Lab Sample ID: 360-36045-1 MSD

Matrix: Water

Analysis Batch: 79331

Client Sample ID: INF 8-31-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.125	0.108		mg/L		86	75 - 125	0	20

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 360-79483/1

Matrix: Water

Analysis Batch: 79483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
pH	6.00	5.900		SU		98	90 - 110

Lab Chronicle

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Client Sample ID: INF 8-31-11

Date Collected: 08/31/11 10:25

Date Received: 08/31/11 16:00

Lab Sample ID: 360-36045-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			79355	09/01/11 10:03	OG	TAL WFD
Total/NA	Analysis	245.1		1	79391	09/01/11 15:21	EMN	TAL WFD
Total/NA	Prep	200.7			79329	09/01/11 08:45	OG	TAL WFD
Total/NA	Analysis	200.7 Rev 4.4		1	79399	09/01/11 14:59	TJS	TAL WFD
Total/NA	Prep	200.7			79412	09/02/11 07:08	EMN	TAL WFD
Total/NA	Analysis	200.7 Rev 4.4		1	79477	09/02/11 12:45	TJS	TAL WFD
Total/NA	Analysis	SM 2340B		1	79551	09/01/11 14:59	TJS	TAL WFD
Total/NA	Analysis	7196A		5	79331	09/01/11 08:56	AMS	TAL WFD
Total/NA	Analysis	SM 4500 H+ B		1	79483	09/01/11 17:55	AMS	TAL WFD
Total/NA	Analysis	300.0		50	79632	09/06/11 20:03	RWE	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ARCADIS U.S., Inc
Project/Site: HT116915.0001

TestAmerica Job ID: 360-36045-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried			
		New Hampshire (NELAC)	Mass	Conn	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			
SM 4500 Cl F	Chlorine, Residual		NP		
SM 9215E	Heterotrophic Plate Count (SimPlate)		P		
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP		
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P		
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P		
1103.1	E.coli		ambient/ source		
Enterolert	Enterococcus				
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW			
245.1	Mercury (CVAA)	NP/P	NP		
7470A	Mercury (CVAA)	NP			
7471A	Mercury (CVAA)	SW			
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P			
3010A	Preparation, Total Metals	NP/P			
3020A	Preparation, Total Metals	NP/P/SW			
3050B	Preparation, Metals	SW			
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP		
3546	Microwave Extraction	SW			
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP			
3550B	Ultrasonic Extraction	SW			
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW			
8082	PCBs by Gas Chromatography(list upon request)	NP/SW			
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW			
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW	
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)				NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P		
524.2	Trihalomethane compounds	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP		
5035	Closed System Purge and Trap	SW			
5030B	Purge and Trap	NP			
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW			
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)				NP/SW
180.1	Turbidity, Nephelometric	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P		
410.4	COD	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW			
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP		
7196A	Chromium, Hexavalent	NP/SW			
9012A	Cyanide, Total and/or Amenable	NP/SW			
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP			
9045C	pH	SW			
L107041C	Nitrogen, Nitrate	NP	P		
L107-06-1B	Nitrogen Ammonia	NP	NP		
L204001A CN	Cyanide, Total	P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP			
SM 4500 H+ B	pH	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP		
SM 4500 P E	Phosphorus, Total	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP			
SM 5210B	BOD, 5-Day	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc

Job Number: 360-36045-1

Login Number: 36045

List Source: TestAmerica Westfield

List Number: 1

Creator: Beaumier, Janine E

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Form

•53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707

•148 Rangeway Road
N. Billerica, MA 01862
(P) 978-667-1400
(F) 978-667-7871

[illegible]

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-36711-1
Client Project/Site: BT1116915.0001

For:

ARCADIS U.S., Inc
194 Forbes Road
Braintree, Massachusetts 02184

Attn: Ahren Tatro



Authorized for release by:

10/07/2011 03:54:30 PM

James Wickham

Technology Manager

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Designee for

Becky Mason

Project Manager II

becky.mason@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Case Narrative

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Job ID: 360-36711-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/30/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.5 C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within a specified method range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample EFF 9-30-11 (360-36711-4) was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/05/2011.

1,4-Dioxane and Butyl alcohol, tert- failed the recovery criteria high for the MS of sample EFF 9-30-11MS (360-36711-4) in batch 360-81084. 1,4-Dioxane, Acetone and Butyl alcohol, tert- failed the recovery criteria high for the MSD of sample EFF 9-30-11MSD (360-36711-4) in batch 360-81084. Refer to the QC report for details.

No other difficulties were encountered during the VOC analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS) - LOW LEVEL

Sample EFF 9-30-11 (360-36711-4) was analyzed for semivolatile organic compounds (GC-MS) - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 10/03/2011 and analyzed on 10/05/2011.

2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 failed the surrogate recovery criteria high for EFF 9-30-11 (360-36711-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed. Refer to the QC report for details.

The Internal standard (ISTD) response for the following sample was outside of acceptance limits: EFF 9-30-11 (360-36711-4) for Naphthalene-d8 and 1,4-Dichlorobenzene-d4 [failing low]. The sample was not re-analyzed due to sample being reported as 'ND'.

No other difficulties were encountered during the SVOC Low Level analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)

Samples MW-7 (360-36711-1), MW-4 (360-36711-2) and EFF 9-30-11 (360-36711-4) were analyzed for total metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/03/2011 and 10/04/2011 and analyzed on 10/03/2011 and 10/05/2011.

No difficulties were encountered during the metals analyses.

Case Narrative

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Job ID: 360-36711-1 (Continued)

Laboratory: TestAmerica Westfield (Continued)

All quality control parameters were within the acceptance limits.

HARDNESS

Sample OUTFALL (360-36711-3) was analyzed for hardness in accordance with SM20 2340B. The samples were analyzed on 10/05/2011.

No difficulties were encountered during the hardness analysis.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Sample EFF 9-30-11 (360-36711-4) was analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were analyzed on 10/01/2011.

For batch 80903: The following sample required re-filtration in the laboratory to reduce matrix interferences: EFF 9-30-11 (360-36711-4). The sample presented with a cloudy or unclear appearance, most likely having a high turbidity.

No other difficulties were encountered during the hexavalent chromium analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Client Sample ID: MW-7

Lab Sample ID: 360-36711-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	100		100		ug/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 360-36711-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	230		100		ug/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: OUTFALL

Lab Sample ID: 360-36711-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Hardness as calcium carbonate	95		2.6		mg/L	1		SM 2340B	Total/NA

Client Sample ID: EFF 9-30-11

Lab Sample ID: 360-36711-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	220		100		ug/L	1		200.7 Rev 4.4	Total/NA
Zinc	67		50		ug/L	1		200.7 Rev 4.4	Total/NA

Method Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL WFD
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL WFD
200.7 Rev 4.4	Metals (ICP)	EPA	TAL WFD
SM 2340B	Hardness, Calculation	SM	TAL WFD
7196A	Chromium, Hexavalent	SW846	TAL WFD
1664 TPH	EPA 1664 Oil & grease	NONE	SC0052

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SC0052 = Waste Water Environmental Management, In, 270 Littleton Road, Unit 30, Westford, MA 01886

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-36711-1	MW-7	Water	09/30/11 08:25	09/30/11 16:10
360-36711-2	MW-4	Water	09/30/11 09:20	09/30/11 16:10
360-36711-3	OUTFALL	Water	09/30/11 10:30	09/30/11 16:10
360-36711-4	EFF 9-30-11	Water	09/30/11 09:45	09/30/11 16:10

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: EFF 9-30-11

Date Collected: 09/30/11 09:45

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/05/11 20:00	1
Toluene	ND		1.0		ug/L			10/05/11 20:00	1
Ethylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
o-Xylene	ND		1.0		ug/L			10/05/11 20:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/11 20:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/11 20:00	1
Butyl alcohol, tert-	ND		50		ug/L			10/05/11 20:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/11 20:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/11 20:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/11 20:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/11 20:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/11 20:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/11 20:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/11 20:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/11 20:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/11 20:00	1
1,4-Dioxane	ND		50		ug/L			10/05/11 20:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/11 20:00	1
Acetone	ND		50		ug/L			10/05/11 20:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/11 20:00	1
Methylene Chloride	ND		2.0		ug/L			10/05/11 20:00	1
Tetrachloroethene	ND		1.0		ug/L			10/05/11 20:00	1
Trichloroethene	ND		1.0		ug/L			10/05/11 20:00	1
Vinyl chloride	ND		0.50		ug/L			10/05/11 20:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
Bromoform	ND		1.0		ug/L			10/05/11 20:00	1
Chloroform	ND		1.0		ug/L			10/05/11 20:00	1
Isopropylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
2-Butanone (MEK)	ND		10		ug/L			10/05/11 20:00	1
n-Butylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
N-Propylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
Naphthalene	ND		5.0		ug/L			10/05/11 20:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/11 20:00	1
Tetrahydrofuran	ND		10		ug/L			10/05/11 20:00	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130					10/05/11 20:00	1
Dibromofluoromethane	101		70 - 130					10/05/11 20:00	1
Toluene-d8 (Surr)	100		70 - 130					10/05/11 20:00	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Client Sample ID: EFF 9-30-11

Date Collected: 09/30/11 09:45

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
2-Methylnaphthalene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Acenaphthylene	ND		0.29		ug/L		10/03/11 13:30	10/05/11 01:11	1
Acenaphthene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Fluorene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Phenanthrene	ND		0.20		ug/L		10/03/11 13:30	10/05/11 01:11	1
Anthracene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Fluoranthene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Benzo[a]anthracene	ND		0.29		ug/L		10/03/11 13:30	10/05/11 01:11	1
Chrysene	ND		0.98		ug/L		10/03/11 13:30	10/05/11 01:11	1
Benzo[b]fluoranthene	ND		0.29		ug/L		10/03/11 13:30	10/05/11 01:11	1
Benzo[k]fluoranthene	ND		0.29		ug/L		10/03/11 13:30	10/05/11 01:11	1
Benzo[a]pyrene	ND		0.20		ug/L		10/03/11 13:30	10/05/11 01:11	1
Indeno[1,2,3-cd]pyrene	ND		0.49		ug/L		10/03/11 13:30	10/05/11 01:11	1
Dibenz(a,h)anthracene	ND		0.49		ug/L		10/03/11 13:30	10/05/11 01:11	1
Benzo[g,h,i]perylene	ND		0.49		ug/L		10/03/11 13:30	10/05/11 01:11	1
Pyrene	ND		4.9		ug/L		10/03/11 13:30	10/05/11 01:11	1
Bis(2-ethylhexyl) phthalate	ND		2.0		ug/L		10/03/11 13:30	10/05/11 01:11	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	140	X	30 - 130				10/03/11 13:30	10/05/11 01:11	1
Nitrobenzene-d5	141	X	30 - 130				10/03/11 13:30	10/05/11 01:11	1
Terphenyl-d14	164	X	30 - 130				10/03/11 13:30	10/05/11 01:11	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Client Sample ID: MW-7

Date Collected: 09/30/11 08:25

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100		100		ug/L		10/04/11 13:29	10/05/11 14:40	1
Zinc	ND		50		ug/L		10/04/11 13:29	10/05/11 14:40	1

Client Sample ID: MW-4

Date Collected: 09/30/11 09:20

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	230		100		ug/L		10/04/11 13:29	10/05/11 14:44	1
Zinc	ND		50		ug/L		10/04/11 13:29	10/05/11 14:44	1

Client Sample ID: EFF 9-30-11

Date Collected: 09/30/11 09:45

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	220		100		ug/L		10/03/11 13:00	10/03/11 18:51	1
Zinc	67		50		ug/L		10/03/11 13:00	10/03/11 18:51	1
Lead	ND		5.0		ug/L		10/03/11 13:00	10/03/11 18:51	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: SM 2340B - Hardness, Calculation

Client Sample ID: OUTFALL
Date Collected: 09/30/11 10:30
Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	95		2.6		mg/L			10/05/11 16:16	1

Client Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

General Chemistry

Client Sample ID: EFF 9-30-11
Date Collected: 09/30/11 09:45
Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-4
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.0050		mg/L			10/01/11 08:52	1

Definitions/Glossary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

GC/MS VOA

Analysis Batch: 81084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	8260B	
360-36711-4 MS	EFF 9-30-11	Total/NA	Water	8260B	
360-36711-4 MSD	EFF 9-30-11	Total/NA	Water	8260B	
LCS 360-81084/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 360-81084/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 360-81084/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 80980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	3510C	
LCS 360-80980/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 360-80980/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 360-80980/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 81026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	8270C LL	80980
LCS 360-80980/2-A	Lab Control Sample	Total/NA	Water	8270C LL	80980
LCSD 360-80980/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	80980
MB 360-80980/1-A	Method Blank	Total/NA	Water	8270C LL	80980

Metals

Prep Batch: 80952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	200.7	
LCS 360-80952/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 360-80952/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 360-80952/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 80999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	200.7 Rev 4.4	80952
LCS 360-80952/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	80952
LCSD 360-80952/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	80952
MB 360-80952/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	80952

Prep Batch: 81030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-1	MW-7	Total/NA	Water	200.7	
360-36711-2	MW-4	Total/NA	Water	200.7	
LCS 360-81030/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 360-81030/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
MB 360-81030/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 81134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-1	MW-7	Total/NA	Water	200.7 Rev 4.4	81030
360-36711-2	MW-4	Total/NA	Water	200.7 Rev 4.4	81030
LCS 360-81030/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	81030

QC Association Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Metals (Continued)

Analysis Batch: 81134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 360-81030/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	81030
MB 360-81030/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	81030

Analysis Batch: 81178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-3	OUTFALL	Total/NA	Water	SM 2340B	
360-36711-3 DU	OUTFALL	Total/NA	Water	SM 2340B	
MB 360-81178/1	Method Blank	Total/NA	Water	SM 2340B	

General Chemistry

Analysis Batch: 80903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-36711-4	EFF 9-30-11	Total/NA	Water	7196A	
360-36711-4 MS	EFF 9-30-11	Total/NA	Water	7196A	
360-36711-4 MSD	EFF 9-30-11	Total/NA	Water	7196A	
LCS 360-80903/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 360-80903/11	Lab Control Sample Dup	Total/NA	Water	7196A	
MB 360-80903/9	Method Blank	Total/NA	Water	7196A	

Surrogate Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
360-36711-4	EFF 9-30-11	95	101	100
360-36711-4 MS	EFF 9-30-11	99	105	99
360-36711-4 MSD	EFF 9-30-11	100	104	100
LCS 360-81084/3	Lab Control Sample	98	102	100
LCSD 360-81084/4	Lab Control Sample Dup	97	102	99
MB 360-81084/6	Method Blank	96	101	99

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (30-130)	NBZ (30-130)	TPH (30-130)
360-36711-4	EFF 9-30-11	140 X	141 X	164 X
LCS 360-80980/2-A	Lab Control Sample	97	109	124
LCSD 360-80980/3-A	Lab Control Sample Dup	101	107	121
MB 360-80980/1-A	Method Blank	60	67	84

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 360-81084/6

Matrix: Water

Analysis Batch: 81084

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/05/11 17:09	1
Toluene	ND		1.0		ug/L			10/05/11 17:09	1
Ethylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
o-Xylene	ND		1.0		ug/L			10/05/11 17:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/11 17:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/11 17:09	1
Butyl alcohol, tert-	ND		50		ug/L			10/05/11 17:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/11 17:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/11 17:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/11 17:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/11 17:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/11 17:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/11 17:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/11 17:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/11 17:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/11 17:09	1
1,4-Dioxane	ND		50		ug/L			10/05/11 17:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/11 17:09	1
Acetone	ND		50		ug/L			10/05/11 17:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/11 17:09	1
Methylene Chloride	ND		2.0		ug/L			10/05/11 17:09	1
Tetrachloroethene	ND		1.0		ug/L			10/05/11 17:09	1
Trichloroethene	ND		1.0		ug/L			10/05/11 17:09	1
Vinyl chloride	ND		0.50		ug/L			10/05/11 17:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
Bromoform	ND		1.0		ug/L			10/05/11 17:09	1
Chloroform	ND		1.0		ug/L			10/05/11 17:09	1
Isopropylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
2-Butanone (MEK)	ND		10		ug/L			10/05/11 17:09	1
n-Butylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
N-Propylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
Naphthalene	ND		5.0		ug/L			10/05/11 17:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/11 17:09	1
Tetrahydrofuran	ND		10		ug/L			10/05/11 17:09	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		70 - 130		10/05/11 17:09	1
Dibromofluoromethane	101		70 - 130		10/05/11 17:09	1
Toluene-d8 (Surr)	99		70 - 130		10/05/11 17:09	1

Lab Sample ID: LCS 360-81084/3

Matrix: Water

Analysis Batch: 81084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	20.0	19.9		ug/L		100	70 - 130
Toluene	20.0	19.2		ug/L		96	70 - 130
Ethylbenzene	20.0	19.6		ug/L		98	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 360-81084/3

Matrix: Water

Analysis Batch: 81084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
o-Xylene	20.0	18.9		ug/L		95	70 - 130
m-Xylene & p-Xylene	40.0	38.8		ug/L		97	70 - 130
Methyl tert-butyl ether	20.0	19.7		ug/L		99	70 - 130
Butyl alcohol, tert-	200	217		ug/L		108	70 - 130
Tert-amyl methyl ether	20.0	19.9		ug/L		100	70 - 130
Carbon tetrachloride	20.0	19.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	70 - 130
1,1-Dichloroethane	20.0	19.6		ug/L		98	70 - 130
1,1-Dichloroethene	20.0	20.0		ug/L		100	70 - 130
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	70 - 130
1,2-Dichloroethane	20.0	19.2		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	70 - 130
1,4-Dioxane	200	207		ug/L		103	70 - 130
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	70 - 130
Acetone	200	203		ug/L		102	70 - 130
cis-1,2-Dichloroethene	20.0	19.3		ug/L		97	70 - 130
Methylene Chloride	20.0	17.6		ug/L		88	70 - 130
Tetrachloroethene	20.0	20.8		ug/L		104	70 - 130
Trichloroethene	20.0	19.5		ug/L		98	70 - 130
Vinyl chloride	20.0	20.9		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130
Bromoform	20.0	18.0		ug/L		90	70 - 130
Chloroform	20.0	19.5		ug/L		98	70 - 130
Isopropylbenzene	20.0	19.2		ug/L		96	70 - 130
2-Butanone (MEK)	200	196		ug/L		98	70 - 130
n-Butylbenzene	20.0	19.1		ug/L		96	70 - 130
N-Propylbenzene	20.0	19.7		ug/L		99	70 - 130
Naphthalene	20.0	15.5		ug/L		78	70 - 130
sec-Butylbenzene	20.0	19.3		ug/L		97	70 - 130
Tetrahydrofuran	200	211		ug/L		106	70 - 130

Surrogate	LCS % Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 360-81084/4

Matrix: Water

Analysis Batch: 81084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.1		ug/L		96	70 - 130	4	25
Toluene	20.0	18.1		ug/L		91	70 - 130	6	25
Ethylbenzene	20.0	18.6		ug/L		93	70 - 130	5	25
o-Xylene	20.0	17.9		ug/L		90	70 - 130	5	25
m-Xylene & p-Xylene	40.0	37.1		ug/L		93	70 - 130	4	25
Methyl tert-butyl ether	20.0	19.6		ug/L		98	70 - 130	1	25

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 360-81084/4

Matrix: Water

Analysis Batch: 81084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Butyl alcohol, tert-	200	204		ug/L		102	70 - 130	6	25
Tert-amyl methyl ether	20.0	19.6		ug/L		98	70 - 130	2	25
Carbon tetrachloride	20.0	18.5		ug/L		93	70 - 130	3	25
1,1,1-Trichloroethane	20.0	19.3		ug/L		97	70 - 130	4	25
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	70 - 130	1	25
1,1-Dichloroethane	20.0	18.8		ug/L		94	70 - 130	4	25
1,1-Dichloroethene	20.0	19.3		ug/L		97	70 - 130	4	25
1,2-Dichlorobenzene	20.0	18.2		ug/L		91	70 - 130	5	25
1,2-Dichloroethane	20.0	19.0		ug/L		95	70 - 130	1	25
1,2,4-Trimethylbenzene	20.0	17.6		ug/L		88	70 - 130	9	25
1,3-Dichlorobenzene	20.0	18.9		ug/L		95	70 - 130	5	25
1,4-Dioxane	200	222		ug/L		111	70 - 130	7	25
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	70 - 130	4	25
Acetone	200	202		ug/L		101	70 - 130	0	25
cis-1,2-Dichloroethene	20.0	18.9		ug/L		95	70 - 130	2	25
Methylene Chloride	20.0	17.9		ug/L		90	70 - 130	2	25
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130	7	25
Trichloroethene	20.0	19.3		ug/L		97	70 - 130	1	25
Vinyl chloride	20.0	20.4		ug/L		102	70 - 130	2	25
1,3,5-Trimethylbenzene	20.0	17.6		ug/L		88	70 - 130	10	25
Bromoform	20.0	18.1		ug/L		91	70 - 130	1	25
Chloroform	20.0	18.9		ug/L		95	70 - 130	3	25
Isopropylbenzene	20.0	17.6		ug/L		88	70 - 130	9	25
2-Butanone (MEK)	200	196		ug/L		98	70 - 130	0	25
n-Butylbenzene	20.0	17.5		ug/L		88	70 - 130	9	25
N-Propylbenzene	20.0	18.3		ug/L		92	70 - 130	7	25
Naphthalene	20.0	14.5		ug/L		73	70 - 130	7	25
sec-Butylbenzene	20.0	17.4		ug/L		87	70 - 130	10	25
Tetrahydrofuran	200	210		ug/L		105	70 - 130	1	25

Surrogate	LCSD % Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 360-36711-4 MS

Matrix: Water

Analysis Batch: 81084

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzene	ND		200	208		ug/L		104	70 - 130
Toluene	ND		200	192		ug/L		96	70 - 130
Ethylbenzene	ND		200	200		ug/L		100	70 - 130
o-Xylene	ND		200	196		ug/L		98	70 - 130
m-Xylene & p-Xylene	ND		400	397		ug/L		99	70 - 130
Methyl tert-butyl ether	ND		200	213		ug/L		107	70 - 130
Butyl alcohol, tert-	ND		2000	3330	F	ug/L		166	70 - 130
Tert-amyl methyl ether	ND		200	213		ug/L		107	70 - 130
Carbon tetrachloride	ND		200	192		ug/L		96	70 - 130

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 360-36711-4 MS

Matrix: Water

Analysis Batch: 81084

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1,1-Trichloroethane	ND		200	214		ug/L		107	70 - 130
1,1,2-Trichloroethane	ND		200	212		ug/L		106	70 - 130
1,1-Dichloroethane	ND		200	207		ug/L		104	70 - 130
1,1-Dichloroethene	ND		200	212		ug/L		106	70 - 130
1,2-Dichlorobenzene	ND		200	196		ug/L		98	70 - 130
1,2-Dichloroethane	ND		200	204		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	ND		200	204		ug/L		102	70 - 130
1,3-Dichlorobenzene	ND		200	210		ug/L		105	70 - 130
1,4-Dioxane	ND		2000	2650	F	ug/L		132	70 - 130
1,4-Dichlorobenzene	ND		200	199		ug/L		100	70 - 130
Acetone	ND		2000	2560		ug/L		128	70 - 130
cis-1,2-Dichloroethene	ND		200	204		ug/L		102	70 - 130
Methylene Chloride	ND		200	206		ug/L		103	70 - 130
Tetrachloroethene	ND		200	216		ug/L		108	70 - 130
Trichloroethene	ND		200	204		ug/L		102	70 - 130
Vinyl chloride	ND		200	208		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	ND		200	203		ug/L		102	70 - 130
Bromoform	ND		200	148		ug/L		74	70 - 130
Chloroform	ND		200	205		ug/L		103	70 - 130
Isopropylbenzene	ND		200	198		ug/L		99	70 - 130
2-Butanone (MEK)	ND		2000	2040		ug/L		102	70 - 130
n-Butylbenzene	ND		200	188		ug/L		94	70 - 130
N-Propylbenzene	ND		200	204		ug/L		102	70 - 130
Naphthalene	ND		200	159		ug/L		80	70 - 130
sec-Butylbenzene	ND		200	200		ug/L		100	70 - 130
Tetrahydrofuran	ND		2000	2330		ug/L		117	70 - 130

Surrogate	% Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: 360-36711-4 MSD

Matrix: Water

Analysis Batch: 81084

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzene	ND		200	201		ug/L		101	70 - 130	3	30
Toluene	ND		200	189		ug/L		95	70 - 130	2	30
Ethylbenzene	ND		200	194		ug/L		97	70 - 130	3	30
o-Xylene	ND		200	196		ug/L		98	70 - 130	0	30
m-Xylene & p-Xylene	ND		400	387		ug/L		97	70 - 130	3	30
Methyl tert-butyl ether	ND		200	215		ug/L		108	70 - 130	1	30
Butyl alcohol, tert-	ND		2000	3610	F	ug/L		181	70 - 130	8	30
Tert-amyl methyl ether	ND		200	216		ug/L		108	70 - 130	1	30
Carbon tetrachloride	ND		200	187		ug/L		94	70 - 130	3	30
1,1,1-Trichloroethane	ND		200	207		ug/L		104	70 - 130	3	30
1,1,2-Trichloroethane	ND		200	213		ug/L		107	70 - 130	0	30
1,1-Dichloroethane	ND		200	198		ug/L		99	70 - 130	4	30

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 360-36711-4 MSD

Matrix: Water

Analysis Batch: 81084

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		200	203		ug/L		102	70 - 130	4	30
1,2-Dichlorobenzene	ND		200	199		ug/L		100	70 - 130	2	30
1,2-Dichloroethane	ND		200	202		ug/L		101	70 - 130	1	30
1,2,4-Trimethylbenzene	ND		200	207		ug/L		104	70 - 130	1	30
1,3-Dichlorobenzene	ND		200	214		ug/L		107	70 - 130	2	30
1,4-Dioxane	ND		2000	2980	F	ug/L		149	70 - 130	12	30
1,4-Dichlorobenzene	ND		200	196		ug/L		98	70 - 130	2	30
Acetone	ND		2000	2690	F	ug/L		135	70 - 130	5	30
cis-1,2-Dichloroethene	ND		200	198		ug/L		99	70 - 130	3	30
Methylene Chloride	ND		200	203		ug/L		102	70 - 130	1	30
Tetrachloroethene	ND		200	206		ug/L		103	70 - 130	5	30
Trichloroethene	ND		200	198		ug/L		99	70 - 130	3	30
Vinyl chloride	ND		200	200		ug/L		100	70 - 130	4	30
1,3,5-Trimethylbenzene	ND		200	205		ug/L		103	70 - 130	1	30
Bromoform	ND		200	146		ug/L		73	70 - 130	1	30
Chloroform	ND		200	199		ug/L		100	70 - 130	3	30
Isopropylbenzene	ND		200	196		ug/L		98	70 - 130	1	30
2-Butanone (MEK)	ND		2000	2100		ug/L		105	70 - 130	3	30
n-Butylbenzene	ND		200	181		ug/L		91	70 - 130	4	30
N-Propylbenzene	ND		200	201		ug/L		101	70 - 130	1	30
Naphthalene	ND		200	168		ug/L		84	70 - 130	6	30
sec-Butylbenzene	ND		200	203		ug/L		102	70 - 130	1	30
Tetrahydrofuran	ND		2000	2370		ug/L		119	70 - 130	2	30

Surrogate	MSD % Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	104		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 360-80980/1-A

Matrix: Water

Analysis Batch: 81026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
2-Methylnaphthalene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Acenaphthylene	ND		0.30		ug/L		10/03/11 13:30	10/04/11 20:28	1
Acenaphthene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Fluorene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Phenanthrene	ND		0.20		ug/L		10/03/11 13:30	10/04/11 20:28	1
Anthracene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Fluoranthene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Benzo[a]anthracene	ND		0.30		ug/L		10/03/11 13:30	10/04/11 20:28	1
Chrysene	ND		1.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Benzo[b]fluoranthene	ND		0.30		ug/L		10/03/11 13:30	10/04/11 20:28	1
Benzo[k]fluoranthene	ND		0.30		ug/L		10/03/11 13:30	10/04/11 20:28	1
Benzo[a]pyrene	ND		0.20		ug/L		10/03/11 13:30	10/04/11 20:28	1

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 360-80980/1-A

Matrix: Water

Analysis Batch: 81026

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.50		ug/L		10/03/11 13:30	10/04/11 20:28	1
Dibenz(a,h)anthracene	ND		0.50		ug/L		10/03/11 13:30	10/04/11 20:28	1
Benzo[g,h,i]perylene	ND		0.50		ug/L		10/03/11 13:30	10/04/11 20:28	1
Pyrene	ND		5.0		ug/L		10/03/11 13:30	10/04/11 20:28	1
Bis(2-ethylhexyl) phthalate	ND		2.0		ug/L		10/03/11 13:30	10/04/11 20:28	1

Surrogate	% Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	60		30 - 130	10/03/11 13:30	10/04/11 20:28	1
Nitrobenzene-d5	67		30 - 130	10/03/11 13:30	10/04/11 20:28	1
Terphenyl-d14	84		30 - 130	10/03/11 13:30	10/04/11 20:28	1

Lab Sample ID: LCS 360-80980/2-A

Matrix: Water

Analysis Batch: 81026

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Naphthalene	8.00	5.16		ug/L		65	40 - 140
2-Methylnaphthalene	8.00	5.23		ug/L		65	40 - 140
Acenaphthylene	8.00	5.79		ug/L		72	40 - 140
Acenaphthene	8.00	6.76		ug/L		85	40 - 140
Fluorene	8.00	7.38		ug/L		92	40 - 140
Phenanthrene	8.00	7.56		ug/L		95	40 - 140
Anthracene	8.00	8.03		ug/L		100	40 - 140
Fluoranthene	8.00	7.35		ug/L		92	40 - 140
Benzo[a]anthracene	8.00	8.54		ug/L		107	40 - 140
Chrysene	8.00	8.55		ug/L		107	40 - 140
Benzo[b]fluoranthene	8.00	8.42		ug/L		105	40 - 140
Benzo[k]fluoranthene	8.00	10.4		ug/L		130	40 - 140
Benzo[a]pyrene	8.00	8.84		ug/L		111	40 - 140
Indeno[1,2,3-cd]pyrene	8.00	8.80		ug/L		110	40 - 140
Dibenz(a,h)anthracene	8.00	8.85		ug/L		111	40 - 140
Benzo[g,h,i]perylene	8.00	8.64		ug/L		108	40 - 140
Pyrene	8.00	8.40		ug/L		105	40 - 140
Bis(2-ethylhexyl) phthalate	8.00	8.21		ug/L		103	40 - 140

Surrogate	% Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	97		30 - 130
Nitrobenzene-d5	109		30 - 130
Terphenyl-d14	124		30 - 130

Lab Sample ID: LCSD 360-80980/3-A

Matrix: Water

Analysis Batch: 81026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80980

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	Limit
Naphthalene	8.00	5.81		ug/L		73	40 - 140	12	20
2-Methylnaphthalene	8.00	6.05		ug/L		76	40 - 140	15	20
Acenaphthylene	8.00	6.47		ug/L		81	40 - 140	11	20
Acenaphthene	8.00	7.79		ug/L		97	40 - 140	14	20

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 360-80980/3-A

Matrix: Water

Analysis Batch: 81026

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80980

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Fluorene	8.00	8.61		ug/L		108	40 - 140	15	20
Phenanthrene	8.00	8.15		ug/L		102	40 - 140	8	20
Anthracene	8.00	8.45		ug/L		106	40 - 140	5	20
Fluoranthene	8.00	7.61		ug/L		95	40 - 140	3	20
Benzo[a]anthracene	8.00	8.61		ug/L		108	40 - 140	1	20
Chrysene	8.00	8.74		ug/L		109	40 - 140	2	20
Benzo[b]fluoranthene	8.00	7.78		ug/L		97	40 - 140	8	20
Benzo[k]fluoranthene	8.00	9.98		ug/L		125	40 - 140	4	20
Benzo[a]pyrene	8.00	8.93		ug/L		112	40 - 140	1	20
Indeno[1,2,3-cd]pyrene	8.00	8.72		ug/L		109	40 - 140	1	20
Dibenz(a,h)anthracene	8.00	8.74		ug/L		109	40 - 140	1	20
Benzo[g,h,i]perylene	8.00	8.53		ug/L		107	40 - 140	1	20
Pyrene	8.00	8.72		ug/L		109	40 - 140	4	20
Bis(2-ethylhexyl) phthalate	8.00	8.23		ug/L		103	40 - 140	0	20

Surrogate	LCSD % Recovery	LCSD Qualifier	LCSD Limits
2-Fluorobiphenyl	101		30 - 130
Nitrobenzene-d5	107		30 - 130
Terphenyl-d14	121		30 - 130

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 360-80952/1-A

Matrix: Water

Analysis Batch: 80999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100		ug/L		10/03/11 13:00	10/03/11 17:58	1
Zinc	ND		50		ug/L		10/03/11 13:00	10/03/11 17:58	1
Lead	ND		5.0		ug/L		10/03/11 13:00	10/03/11 17:58	1

Lab Sample ID: LCS 360-80952/2-A

Matrix: Water

Analysis Batch: 80999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Iron	5000	5380		ug/L		108	85 - 115
Zinc	1000	1030		ug/L		103	85 - 115
Lead	1000	1040		ug/L		104	85 - 115

Lab Sample ID: LCSD 360-80952/3-A

Matrix: Water

Analysis Batch: 80999

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Iron	5000	5440		ug/L		109	85 - 115	1	20
Zinc	1000	1040		ug/L		104	85 - 115	1	20
Lead	1000	1050		ug/L		105	85 - 115	1	20

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 360-81030/1-A

Matrix: Water

Analysis Batch: 81134

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 81030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		100		ug/L		10/04/11 13:29	10/05/11 14:14	1
Zinc	ND		50		ug/L		10/04/11 13:29	10/05/11 14:14	1

Lab Sample ID: LCS 360-81030/2-A

Matrix: Water

Analysis Batch: 81134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 81030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Iron	5000	5210		ug/L		104	85 - 115
Zinc	1000	985		ug/L		99	85 - 115

Lab Sample ID: LCSD 360-81030/3-A

Matrix: Water

Analysis Batch: 81134

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 81030

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Iron	5000	5280		ug/L		106	85 - 115	1	20
Zinc	1000	998		ug/L		100	85 - 115	1	20

Method: SM 2340B - Hardness, Calculation

Lab Sample ID: MB 360-81178/1

Matrix: Water

Analysis Batch: 81178

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	ND		2.6		mg/L			10/05/11 16:07	1

Lab Sample ID: 360-36711-3 DU

Matrix: Water

Analysis Batch: 81178

Client Sample ID: OUTFALL

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hardness as calcium carbonate	95		97.5		mg/L		2	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 360-80903/9

Matrix: Water

Analysis Batch: 80903

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.0050		mg/L			10/01/11 08:52	1

Lab Sample ID: LCS 360-80903/10

Matrix: Water

Analysis Batch: 80903

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium, hexavalent	0.0500	0.0505		mg/L		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 360-80903/11

Matrix: Water

Analysis Batch: 80903

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.0500	0.0505		mg/L		101	80 - 120	0	20

Lab Sample ID: 360-36711-4 MS

Matrix: Water

Analysis Batch: 80903

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.0250	0.0247		mg/L		99	75 - 125		

Lab Sample ID: 360-36711-4 MSD

Matrix: Water

Analysis Batch: 80903

Client Sample ID: EFF 9-30-11

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.0250	0.0260		mg/L		104	75 - 125	5	20

Lab Chronicle

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Client Sample ID: MW-7

Date Collected: 09/30/11 08:25

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			81030	10/04/11 13:29	OG	TAL WFD
Total/NA	Analysis	200.7 Rev 4.4		1	81134	10/05/11 14:40	TJS	TAL WFD

Client Sample ID: MW-4

Date Collected: 09/30/11 09:20

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			81030	10/04/11 13:29	OG	TAL WFD
Total/NA	Analysis	200.7 Rev 4.4		1	81134	10/05/11 14:44	TJS	TAL WFD

Client Sample ID: OUTFALL

Date Collected: 09/30/11 10:30

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2340B		1	81178	10/05/11 16:16	TJS	TAL WFD

Client Sample ID: EFF 9-30-11

Date Collected: 09/30/11 09:45

Date Received: 09/30/11 16:10

Lab Sample ID: 360-36711-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	81084	10/05/11 20:00	TH	TAL WFD
Total/NA	Prep	3510C			80980	10/03/11 13:30	TLV	TAL WFD
Total/NA	Analysis	8270C LL		1	81026	10/05/11 01:11	CMR	TAL WFD
Total/NA	Prep	200.7			80952	10/03/11 13:00	OG	TAL WFD
Total/NA	Analysis	200.7 Rev 4.4		1	80999	10/03/11 18:51	TJS	TAL WFD
Total/NA	Analysis	7196A		1	80903	10/01/11 08:52	AMS	TAL WFD

Laboratory References:

SC0052 = Waste Water Environmental Management, In, 270 Littleton Road, Unit 30, Westford, MA 01886

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

SUBCONTRACTED DATA

Waste Water Environmental Management Inc.

Laboratory Analysis
Plant Management
(978) 692-8010
FAX (978) 692-8010

Mailing Address
7 Eldorado Rd.
Chelmsford, MA 01824

Laboratory Location
270 Littleton Rd. Unit 30
Westford, MA 01886

Test America
53 South Hampton Rd
Westfield, MA 01085

Test Report

Parameter	Method	Analyst	Parameter	Method	Analyst
Oil and Grease	1664	MC	Phenol	420.1	SH
Fluoride	4500 C	SH	Nitrite	4500 B	JM
pH	4500B	SH	BOD	2540B	MC
TPH	1664SGT	MC	Surfactants	5540C	SH

Report ID: 47799

TA ID	WWEM Lab ID	Date Received	TPH mg/l	Date completed	Detection limit
360-36711-4	47799	10/4/11	<5	10/5/11	5.00mg/l

10/6/2011 14:54
page 1 of 1


Stephen Badger
Laboratory Director
Massachusetts Certification #MA077

Waste Water Environmental Management Inc.

Laboratory Analysis
Plant Management
(978) 692-8010
FAX (978) 692-8010

Mailing Address
7 Eldorado Rd.
Chelmsford, MA 01824

Laboratory Location
270 Littleton Rd. Unit 30
Westford, MA 01886

Test America

QC Report

Westfield, MA

Batch : 10/5/11
TA: 360-36711-4

Lab I.D.: 47799

Parameter	Blank mg/l	Dup mg/l	Dup ID	MS % recovery	MS ID	Spike mg
TPH	<5.00	16.5/17.0	LCS	53*, 80	47741a*, 47752c	20.0
		LCS recovered mg	LCS true value mg	LCS % recovery		
		17.0	20.0	85.0		

* The percent recovery of the matrix spike was below limits set by the method.


Steven Hansen

Laboratory Supervisor
Massachusetts Certification #MA077

Page 1 of 1

Chain of Custody Record

TestAmerica
THE LEADER IN EFFICIENCY AND TESTS

THE LEADER IN CHEMICAL TESTING

10/07/2011

Certification Summary

Client: ARCADIS U.S., Inc
Project/Site: BT1116915.0001

TestAmerica Job ID: 360-36711-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried			
		New Hampshire (NELAC)	Mass	Conn	North Carolina
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP			
SM 4500 Cl F	Chlorine, Residual		NP		
SM 9215E	Heterotrophic Plate Count (SimPlate)		P		
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP		
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P		
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P		
1103.1	E.coli		ambient/ source		
Enterolert	Enterococcus				
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P		
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P		
6010B	Metals (ICP)(list upon request)	NP/SW			
245.1	Mercury (CVAA)	NP/P	NP		
7470A	Mercury (CVAA)	NP			
7471A	Mercury (CVAA)	SW			
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP		
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P			
3010A	Preparation, Total Metals	NP/P			
3020A	Preparation, Total Metals	NP/P/SW			
3050B	Preparation, Metals	SW			
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P		
608	Organochlorine Pest/PCBs (list upon request)	NP	NP		
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP		
3546	Microwave Extraction	SW			
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP			
3550B	Ultrasonic Extraction	SW			
8081A	Organochlorine Pesticides (GC)(list upon request)	NP/SW			
8082	PCBs by Gas Chromatography(list upon request)	NP/SW			
8270C	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW			
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)			NP/SW	
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)				NP/SW
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P		
524.2	Trihalomethane compounds	P	P		
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP		
5035	Closed System Purge and Trap	SW			
5030B	Purge and Trap	NP			
8260B	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW			
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)				NP/SW
180.1	Turbidity, Nephelometric	P	P		
300	Anions, Ion Chromatography	NP/P	NP/P		
410.4	COD	NP	NP		
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW			
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP		
7196A	Chromium, Hexavalent	NP/SW			
9012A	Cyanide, Total and/or Amenable	NP/SW			
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP			
9045C	pH	SW			
L107041C	Nitrogen, Nitrate	NP	P		
L107-06-1B	Nitrogen Ammonia	NP	NP		
L204001A CN	Cyanide, Total	P	NP/P		
L210-001A	Phenolics, Total Recoverable	NP	NP		
SM 2320B	Alkalinity	NP/P	NP/P		
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P		
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P		
SM 2540D	Solids, Total Suspended (TSS)	NP	NP		
SM 3500 CR D	Chromium, Hexavalent	NP			
SM 4500 H+ B	pH	NP/P	NP/P		
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P		
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP		
SM 4500 P E	Phosphorus, Total	NP	NP		
SM 4500 S2 D	Sulfide, Total	NP			
SM 5210B	BOD, 5-Day	NP	NP		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP		

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc

Job Number: 360-36711-1

Login Number: 36711

List Source: TestAmerica Westfield

List Number: 1

Creator: Ard, Vanessa L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: ALLEN TATTO Company: ALCANTAS - US Address: 194 FROES RD City: BRAINTREE, MA State, Zip: MA 02184 Phone: 781-356-7300 Email:		Due Date Requested: TAT Requested (days): 5 Quote #: PO #: WO #: SSOW#:		Lab Pmt: E-Mail: MIKE.BAER@ALCANTAS-US.COM Camper Tracking No(s):	
Project Name/number: NOF-0007 BT16915-0001 Site: NOF-0007		Analysis Requested			
Sample Identification MW-7 MW-4 OUTFAW EFF 9-30-11		Sample Date 9-30-11 10-20 10-30 09-15	Sample Time 0825 0920 1030 0945	Sample Type (C=Comp, G=grab) G ↓ ↓ ↓	Matrix (W=Water, S=solid, O=Owastefall, BT=Tissue, AA=Air) GW ↓ ↓ ↓
Field Filtered Sample? Perform MS/MSD?		Sample's Initials AC AT AT AT		Total Number of Containers 1 1 1 9	
Special Instructions/Note: NPOES RAR PARMU Flow - 3161 PH - 7.26		Regulatory programs: MCP ☒ GW1/S1 RCP ☐ CT RSR DEP Form ☐ EDD Required			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH H - Ascorbic Acid I - Ice J - DI Water M - Hexane N - None P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 Z - other (specify)		Special Instructions/Note: Flow - 3161 PH - 7.26			

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)	
Relinquished by: Allen Tat Relinquished by: Allen Tat Relinquished by: Allen Tat	Date/Time: 9-30-11 1250 Date/Time: 9-30-11 1430 Date/Time: 9-30-11 16:10	Company: ALCANTAS Company: ALCANTAS Company: ALCANTAS	Date/Time: 9-30-11 1250 Date/Time: 9-30-11 1430 Date/Time: 9-30-11 16:10

Relinquished by: **Allen Tat** Date/Time: **9-30-11 1250** Company: **ALCANTAS**
 Relinquished by: **Allen Tat** Date/Time: **9-30-11 1430** Company: **ALCANTAS**
 Relinquished by: **Allen Tat** Date/Time: **9-30-11 16:10** Company: **ALCANTAS**

Custody Seal No.: **3564**
 Custody Seal Intact: ☒ Yes ☐ No

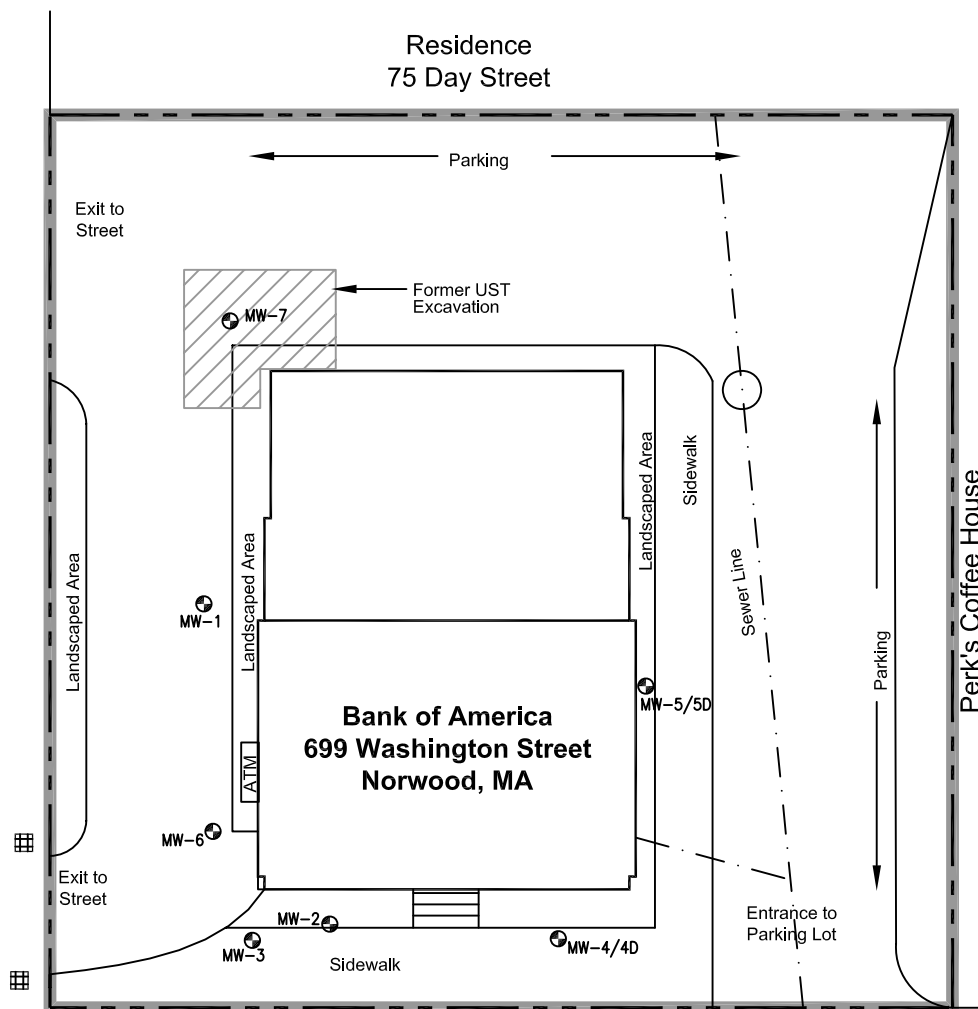


ATTACHMENT D

Site Plan Indicating the
Monitoring Well Locations

Christian Science Reading Room

Day Street



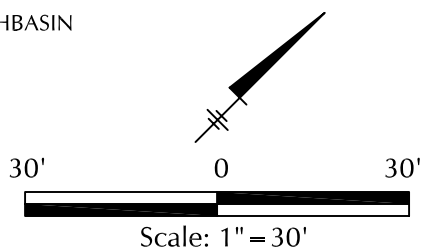
1. THIS DRAWING IS REFERENCED FROM THE FOLLOWING:

- A. "SITE PLAN AND DISPOSAL SITE BOUNDARY", BY ENSR AECOM, DATED: 04/2008, SCALE: 1"=30'.

Norwood Town Assessor's Map
ENSR Site Reconnaissance

Washington Street

CATCHBASIN



Scale: 1" = 30'

Mortgage
Master

699 WASHINGTON STREET
NORWOOD, MASSACHUSETTS

SITE PLAN & DISPOSAL SITE BOUNDARY



FIGURE

2



ATTACHMENT E

Most Current County
Endangered Species Act (ESA)
List

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

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

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

Revised 06/22/2009

Endangered Species Consultation Project Review for Projects with Federal Involvement (authorizing, funding or carrying out the project)

The following information is designed to assist applicants or project sponsors in determining whether a federally-listed, proposed and/or candidate species may occur within the proposed project area and whether it is appropriate to contact our office for additional coordination or consultation. We encourage you to print out all materials used in the analyses of effects on listed, proposed or candidate species for your records or submission to the appropriate federal agency or our office.

Step 1. - Determine whether any listed, proposed, or candidate species (T/E species) are likely to occur within the proposed project action area based on location of the proposed project:

A. Choose your state list below and review for Towns in which federally-listed species occur:

Connecticut - 12 species (29 KB)
Massachusetts - 14 species (41 KB)
New Hampshire - 13 species (31 KB)
Rhode Island - 8 species (22 KB)
Vermont - 10 species (25 KB)

B. You should contact your state Natural Heritage Program or Endangered Species Program (see list below) for additional information on federally and state-listed species:

Rhode Island Natural Heritage Program
Connecticut Endangered Species Program
Massachusetts Natural Heritage and Endangered Species Program
Vermont Non-Game and Natural Heritage
New Hampshire Fish and Game's Non-game and Endangered Wildlife Program
New Hampshire Natural Heritage Bureau's Home Page

Please note that these agencies provide information on known occurrences; this information does not replace field surveys, especially for plants, as most project sites have not been previously surveyed specifically for listed species.

C. If the project falls within a Town where the endangered dwarf wedgemussel is known to occur, check the appropriate map to determine whether your project is in the vicinity of its known range.

Massachusetts - Connecticut River Watershed (912 KB)
New Hampshire/Vermont - Connecticut River Watershed
Upper Connecticut River (872 KB)
Middle Connecticut River (1.07 MB)
Lower Connecticut River (1.56 MB)
New Hampshire - Ashuelot River Watershed (886 KB)
Connecticut - Connecticut River Watershed (2.04 MB)

D. If the project falls within a Town where the endangered northern red-bellied cooter is known to occur, or if the project occurs in Plymouth County, Massachusetts, check the map to determine whether your project is in the vicinity of its known range or critical habitat. NRBC_MAP (59 KB)

E. If a proposed project occurs in a Town with no known listed, proposed or candidate species present, no further coordination with the Service is needed. You may download a "no species present" letter (158 KB) stating "no species are known to occur in the project area".

F. If the proposed project occurs in a Town with known occurrences of T/E species, proceed to Step 2.

Step 2. - Determine whether any listed or proposed New England Species are likely to occur within the proposed project area by comparing the habitat present within the proposed project action area with habitat that is suitable for the species.

- A. Review the information we have provided on the species list information from the appropriate state agency, and any other sources of information available to you to determine types of habitat the species use. A description of suitable habitat for New England's federally-listed species may be found in New England Species' profiles and fact sheets.
- B. Determine whether your proposed project action area has any potential for listed species habitat (e.g., are suitable roost trees present? - Indiana bats; are wetlands present? - bog turtles or Northeastern bulrush; will project affect a waterway? - dwarf wedgemussel). After this initial coarse review, determine whether any more detailed surveys may be appropriate (e.g., survey for dwarf wedgemussels).
- C. If your state Natural Heritage Program or Endangered Species Program does not identify any listed species for the proposed project AND there is no potential habitat for any listed species within the action area, no further coordination with the Service is required. You may download a "no species present" letter (158 KB) stating "no species are known to occur in the project area".
- D. If you have identified that potential listed species habitat is present although the species has not been documented from that specific location, further coordination with our office is recommended. Please send the results of your assessment including any habitat surveys to:

Supervisor

Concord, NH 03301

Include in your letter:

A detailed description of the proposed project, including approximate proposed project construction schedule and project activities (e.g., land clearing, utilities, stormwater management). Site plans are often helpful in our evaluation process.

- A description of the natural characteristics of the property and surrounding area (e.g., forested areas, freshwater wetlands, open waters, and soils). Photographs are often helpful in assessing the habitat. Additionally, please include a description of surrounding land use (residential, agricultural, or commercial).
- The location of the above referenced property and extent of any project related activities or discharges clearly indicated on a copy of a USGS 7.5 Minute Topographic Quadrangle (Quad) with the name of the Quad(s) and latitude/longitude clearly labeled.
- A description of conservation measures to avoid or minimize impacts to listed species.

Why does this matter?- In a case where no habitat is present, a quick and easy determination can be made that further coordination is not necessary. In a case where habitat is present, but you believe that the project activities will not impact listed species, it is important to coordinate with us to ensure that all project activities and all potential effects (direct and indirect) have been considered.

(Please allow 30 days following our receipt of your request for processing.)

Step 3. - Based on the results of the habitat survey and a description of the proposed project (including information as to whether any potential habitat may be directly or indirectly affected), the involved Federal agency may determine:

- The proposed project will result in no effect to any T/E species and no further coordination or consultation with the Service is required;
- Additional information (e.g., surveys) is required to determine whether any T/E species are likely to occur within the proposed project area; or
- The proposed project "may affect" a T/E species and consultation with the Service is required.

Endangered Species

New England Listed Species

The following federally-listed species are protected in New England. This list includes links to species information on our National Fish and Wildlife Service website including current Federal Register documents, HCPs, Recovery Plans, Life History accounts.

Vertebrates

Mammals

Eastern Cougar - *Puma* (= *Felis*) *concolor* cougar
 Gray Wolf - *Canis lupus*
 Indiana Bat - *Myotis sodalis*
 Canada Lynx - *Lynx canadensis*

Birds

Atlantic Coast Piping Plover - *Charadrius melodus*
Birds of North America Species Account Piping Plover
Atlantic Coast piping plover website Piping Plover
 Roseate Tern - *Sterna dougallii dougallii*
Birds of North America Species Account Roseate Tern

Reptiles

Bog Turtle - *Clemmys muhlenbergii*
 Northern Redbelly Cooter (Plymouth redbelly turtle) *Pseudemys rubriventris bangsii*
Northern Redbelly Cooter 5-year Review; (pdf size 1.6MB) May 2007*

Fish

Atlantic Salmon - *Salmo salar* (Maine only)
 Maine Atlantic Salmon Atlas

Invertebrates

Insects

American Burying Beetle - *Nicrophorus americanus*
 Karner Blue Butterfly - *Lycaeides melissa samuelis*
Karner Blue Butterfly Fact sheet
 Northeastern Beach Tiger Beetle - *Cicindela dorsalis dorsalis*
 Puritan Tiger Beetle - *Cicindela puritana*
Draft Puritan Tiger Beetle; (pdf size 2.4MB) 5-year Review*

Mussels

Dwarf Wedgemussel - *Alasmidonta heterodon*
Dwarf Wedgemussel 5-Year Status Review 2007 (pdf size 1.14MB)*

Plants

Jesup's Milkvetch - *Astragalus robbinsii* var. *jesupii*
 Northeastern Bulrush - *Scirpus ancistrochaetus*
 Sandplain Gerardia - *Agalinis acuta*
 Small Whorled Pogonia - *Isotria medeoloides*
 Seabeach Amaranth - *Amaranthus pumilus* (historic)
 American Chaffseed - *Schwalbea americana* (historic)
 Eastern Prairie Fringed Orchid - *Platanthera leucophaea* (Maine only)
 Furbish's Lousewort - *Pedicularis furbishiae* (Maine only)

Candidate species and species recently delisted are identified below, including links for additional information regarding their status.

Candidate Species

The Service has recently completed a status assessment for the following species and determined that federal listing is "warranted, but precluded", i.e. the status of the species indicates that it should be listed but the listing is superseded by higher listing actions.

While there is currently no obligation for Federal Agencies to consult with us regarding these species, coordination is encouraged to avoid project delays that may occur as a result of the species becoming federally-listed during the planning or construction phases of a given project. In addition, the Service is interested in promoting conservation actions that may result in benefits to these species that will prevent the need to list it. Information regarding our candidate conservation program may help you decide if you would like to become involved.

- New England Cottontail; *Sylvilagus transitionalis*
- Red Knot *Calidris canutus rufa*; Red Knot Fact Sheet

Delisted Species



NCTC Eagle Cam

This Bald Eagle image is a link to a Service website that chronicles the activities of the eagle nest located on the grounds of the USFWS National Conservation Training Center near the Potomac River in Shepherdstown, West Virginia. The nest has been active for four seasons, fledging several juvenile bald eagles.

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
NORWOOD	Beetle	<i>Cicindela purpurea</i>	Purple Tiger Beetle	SC		1913
NORWOOD	Bird	<i>Ammodramus henslowii</i>	Henslow's Sparrow	E		Historic
NORWOOD	Bird	<i>Ixobrychus exilis</i>	Least Bittern	E		1985
NORWOOD	Reptile	<i>Terrapene carolina</i>	Eastern Box Turtle	SC		1989
NORWOOD	Vascular Plant	<i>Aristida purpurascens</i>	Purple Needlegrass	T		1894
NORWOOD	Vascular Plant	<i>Houstonia longifolia</i>	Long-leaved Bluet	E		1910
NORWOOD	Vascular Plant	<i>Nabalus serpentarius</i>	Lion's Foot	E		1901
NORWOOD	Vascular Plant	<i>Petasites frigidus</i> var. <i>palmaris</i>	Sweet Coltsfoot	E		1897
NORWOOD	Vascular Plant	<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchis	T		1909
NORWOOD	Vascular Plant	<i>Scirpus longii</i>	Long's Bulrush	T		2002
NORWOOD	Vascular Plant	<i>Sphenopholis pennsylvanica</i>	Swamp Oats	T		Historic



ATTACHMENT F

National Registry of Historic
Places listing for Norwood, MA

nps.gov
National Park Service
U.S. Department of the Interior

National Register
of
Historic Places

HOME
BROWSE
ADVANCED SEARCH
DOWNLOAD CENTER
ABOUT
STATUS
HELP

Contact Us

Find A Park
History & Culture
Nature & Science
Education & Interpretation

FULL RECORD DISPLAY
Current Record: 1 of 2 in NPS Digital Library

Go back to: Title List | Revise Search
Next Record

For advanced viewing install **DjVu** browser plugin.

1. Choose the option for Autoinstallation
2. takes about 20 seconds
3. About DjVu and plugin help

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JPG | DjVu

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2. takes about 20 seconds
3. About DjVu and plugin help

Choose format:
JPG | DjVu

Begin DjVu install

Day, Fred Holland, House [Image]
URL: <http://pdfhost.focus.nps.gov/docs/NRHP/Text/77000191.pdf>
Link will open in a new browser window
URL: <http://pdfhost.focus.nps.gov/docs/NRHP/Photos/77000191.pdf>
Link will open in a new browser window
Publisher: National Park Service
Published: 04/18/1977
Access: Public access
Restrictions: All Rights Reserved
Format/Size: Physical document with text, photos and map
Language: eng: English
Note: 93 Day St.
Item No.: 77000191 *NRIS (National Register Information System)*
Subject: ARCHITECTURE/ENGINEERING
Subject: PERSON
Subject: ARCHITECTURE
Subject: ART
Subject: LITERATURE
Subject: TUDOR REVIVAL
Subject: BUILDING
Subject: 1875-1899
Subject: 1850-1874
Keywords: Beal,J. Williams;Day,Fred Holland;1859;1890
Place: MASSACHUSETTS -- Norfolk County -- Norwood

Record Number: 372405
Record Owner: National Register of Historic Places

Freedom of Information Act
Last updated: 10/20/11

Privacy Policy

Disclaimer

Accessibility

73

nps.gov
National Park Service
U.S. Department of the Interior

National Register
of
Historic Places

HOME
BROWSE
ADVANCED SEARCH
DOWNLOAD CENTER
ABOUT
STATUS
HELP

Contact Us

Find A Park
History & Culture
Nature & Science
Education & Interpretation

FULL RECORD DISPLAY
Current Record: 2 of 2 in NPS Digital Library

[Go back to: Title List](#) | [Revise Search](#)

[Previous Record](#)

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3. About DjVu and plugin help

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JPG | **DjVu**

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For advanced viewing install **DjVu browser plugin**.

1. Choose the option for AutoInstallation
2. takes about 20 seconds
3. About DjVu and plugin help

Choose format:
JPG | **DjVu**

[Begin DjVu install](#)

Norwood Memorial Municipal Building [Image]

URL: <http://pdfhost.focus.nps.gov/docs/NRHP/Text/96001086.pdf>
Link will open in a new browser window

URL: <http://pdfhost.focus.nps.gov/docs/NRHP/Photos/96001086.pdf>
Link will open in a new browser window

Publisher: National Park Service

Published: 10/10/1996

Access: Public access

Restrictions: All Rights Reserved

Format/Size: Physical document with text, photos and map

Language: eng: English

Note: 566 Washington St.

Item No.: 96001086 *NRIS (National Register Information System)*

Subject: EVENT

Subject: ARCHITECTURE/ENGINEERING

Subject: ARCHITECTURE

Subject: ART

Subject: COMMUNITY PLANNING AND DEVELOPMENT

Subject: POLITICS/GOVERNMENT

Subject: LATE GOTHIC REVIVAL

Subject: BUILDING

Subject: 1925-1949

Keywords: Upham, William G.; Miner, Edward, et al.; 1927; 1928

Place: MASSACHUSETTS -- Norfolk County -- Norwood

Record Number: 425000

Record Owner: National Register of Historic Places

Freedom of Information Act
Last updated: 10/20/11

Privacy Policy

Disclaimer

Accessibility



ATTACHMENT G

MassDEP Transmittal Form for
Permit Application and Payment



Enter your transmittal number

X240061

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://mass.gov/dep/service/online/trasmfrm.shtml>**Massachusetts Department of Environmental Protection****Transmittal Form for Permit Application and Payment**

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

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

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

MassDEP
P.O. Box 4062
Boston, MA
02211

* Note:
For BWSC Permits,
enter the LSP.

A. Permit Information

BRP WM 10

Permit for Construction or Foundation
Dewatering

1. Permit Code: 7 or 8 character code from permit instructions

Foundation dewatering from basement sump.

3. Type of Project or Activity

B. Applicant Information – Firm or Individual

Bank of America, N.A., Corporate Workplace Environmental Risk, Mail Stop CT2-545-01-02

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

2. Last Name of Individual

200 Glastonbury Blvd.

3. First Name of Individual

4. MI

5. Street Address

Glastonbury

CT

06033

646-556-0759

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Dennis McInerney

dennis.p.mcinerney@bankofamerica.com

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Bank of America, Bank Branch MA6-288

1. Name of Facility, Site Or Individual

699 Washington Street

2. Street Address

Norwood

MA

02062

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

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

ARCADIS U.S., Inc

1. Name of Firm Or Individual

194 Forbes Road

2. Address

Braintree

MA

02184

3. City/Town

4. State

5. Zip Code

781-356-7300

6. Telephone #

261

7. Ext. #

Allen Walker

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination1. Is this project subject to MEPA review? ☐ yes ☒ noIf yes, enter the project's EOE file number - assigned when an
Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

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

982286

\$385

11/3/2011

Check Number

Dollar Amount

Date

982286



630 Plaza Drive, Suite 600 • Highlands Ranch, Colorado 80129
Tel 720/344-3500 • Fax 720/344-3535

Wells Fargo Bank, N.A.
Grand Junction, CO 81501
82-91-1021

CHECK DATE

November 3, 2011

PAY

Three Hundred Eighty Five and 00/100

AMOUNT

TO

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BOX 4062
BOSTON, MA 02211

\$385.00

ARCADIS

Secure Check features
included.
Details on back.

⑈982286⑈ ⑆102100918⑆8012803418⑈



630 Plaza Drive, Suite 600 • Highlands Ranch, Colorado 80129 Tel 720/344-3500 • Fax 720/344-3535

EMILY BUSINESS FOR THE 800.392.5018 VISION

982286

Check Date 11/3/2011

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
09192011A	9/19/2011	1541022	\$385.00			\$385.00
COMMONWEALTH OF MASSACHUSETTS TOTAL			\$385.00			\$385.00
214 - A/P DISBURS AG&M 5		0065092				

BRP WM 10 Transmittal # X240061

Norwood HT 116915.0001