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July 10, 2009

Mr. Joseph F. LeMay, P.E.
Remedial Project Manager
US Environmental Protection Agency, Region 1
Office of Site Remediation and Restoration
MA Superfund Section
One Congress Street, Suite 1100, (HBO)
Boston, MA 02114-2023

**Subject: Industri-plex Operable Unit 2 Superfund Site
Woburn, Massachusetts
Baseflow Surface Water Monitoring Report**

Dear Mr. LeMay:

Pursuant to Paragraph 34 of the Consent Decree (CD)(Civil Action No.1:08-cv-10325) and Section V.A.5 of the Remedial Design / Remedial Action (RD/RA) Statement of Work (SOW) for the above referenced site, enclosed please find the Baseflow Surface Water Monitoring Report No. 3.

This report covers the period from June 1 - 30, 2009, and is submitted on behalf of the Settling Defendants.

Please contact me if you have any questions.

Sincerely,

Bruce Thompson
Project Coordinator

Enclosure

cc: Jen McWeeney - MassDEP
Settling Defendants
Larry McTiernan - Roux Associates

**Baseflow Surface Water Monitoring
Monthly Report No. 3
(June 2009)**

Industri-plex Superfund Site
Operable Unit 2
Woburn, Massachusetts

In accordance with the Surface Water Monitoring Plan (SWMP), this Baseflow Surface Water Monitoring Report has been prepared to summarize the surface water monitoring and maintenance activities performed and the data developed during the reporting period (June 1 through June 30, 2009) and to provide a brief discussion of the data. Flowlink[®] data and operation and maintenance (O&M) inspection sheets for the reporting period are provided on the attached compact disc.

Monitoring and Maintenance Activities Performed During Reporting Period

1. Regular weekly O&M activities were performed at the surface water monitoring stations (**Figures 1 and 2**) on June 5, 12, 15, and 25-26, 2009 and included the following:

- inspected instrumentation and tubing and adjusted as needed
- cleared debris around station instrumentation
- cleaned sample intake and staff gauge
- cleaned the Isco 750 area-velocity module sensor and the In-Situ[®] MP Troll[®] 9500 water quality meter sensors
- checked calibration of the In-Situ[®] MP Troll[®] 9500 water quality meter sensors and re-calibrated as needed
- collected manual stage measurements
- checked station power levels
- inspected rain gauges and cleaned as needed
- downloaded flow and water quality data stored in the Isco units
- verified the telemetry cable connection

Note that regular weekly O&M activities scheduled for June 19, 2009 were not performed due to high water conditions resulting from a storm event on June 18-19, 2009.

2. Monthly O&M activities were performed on June 25-26, 2009 in conjunction with weekly O&M activities and included the following:

- collected manual velocity measurements
- cleaned solar panels
- calibrated the In-Situ[®] MP Troll[®] 9500 water quality meter sensors

3. The SWMP monthly baseflow sampling event was conducted on June 2, 2009 and included the following:

- manually gauged stream flow at nine of the ten monitoring stations¹
- measured surface water elevations all ten SWMP monitoring stations
- measured groundwater elevations at nine of the ten SWMP monitoring stations²

Data Generated During Reporting Period

1. Water quality parameters recorded at the time of baseflow sampling on June 2, 2009 are provided in **Tables 1a through j**, along with the water quality measurements made during all previous “early action” baseflow sampling events.
2. Analytical results for the baseflow samples collected during the reporting period³ are provided in **Tables 2a through j** along with validated analytical laboratory results for baseflow samples collected during previous SWMP sampling events, “early action” sampling, and other previous sampling programs at the site (i.e., the Groundwater and Surface Water Investigation Plan [GSIP] and the Multiple Source Groundwater Response Plan [MSGRP]).
3. Groundwater and surface water elevation data are provided in **Table 3**.

Data Analysis

Laboratory analytical data for benzene, total arsenic, dissolved arsenic, and ammonia developed during the SWMP and previous sampling programs (MSGRP, GSIP, and “Early Action”) are summarized in the attached box-whisker plots. The most recent SWMP results are shown as solid circles (unless not detected), while the previous SWMP results and all results from previous sampling programs are plotted as boxes and whiskers whenever possible. (Since at least two values are required to construct a “box,” previous results are shown as individual diamonds in those cases where the analyte was detected in only one sample during a particular sampling program). The “boxes” indicate the range within which the central fifty percent of an analytical dataset falls (the box edges mark the first and third quartiles of the dataset and the line dividing the box in two marks the median value), while the “whiskers” show the full range of values reported.⁴

¹ The BECO ROW station (SW-3-IP) was not measured due to insufficient surface water flow.

² There is no piezometer at the Mishawum Road station (SW-04-TT).

³ These results have not yet been validated.

⁴ Any statistical outliers that may be present are not indicated as such.

TABLES

**Table 1a
 Baseflow Water Quality Parameters for SW-01-TT (Halls Brook)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Remedial Design "Early Action"							
SW-01-TT	08/21/08	17.3	8.3	7.1	250.2	832.3	9.1
	09/18/08	14.3	8.6	7.1	176.7	755.9	6.3
	10/09/08	15.1	7.5	6.9	169.7	899.5	15.6
	11/05/08	9.7	7.1	6.8	508.3	2774.0	27.5
	12/09/08	2.2	9.0	6.8	483.9	3056.0	47.3
	01/20/09	0.4	12.4	7.0	81.0	1362.0	24.7
	02/02/09	1.7	7.8	6.9	-287.4	1184.0	8.1
	03/18/09	7.1	ERR	ERR	10.3	ERR	44.5
04/01/09	7.1	ERR	ERR	6.7	ERR	388.4	
Surface Water Monitoring Plan							
SW-01-TT	04/17/09	13.0	15.7	6.9	34.0	965.5	3.7
	05/12/09	15.7	8.0	7.2	499.7	662.0	18.7
	06/02/09	16.2	8.7	7.7	93.7	923.0	49.8

Notes:

C = Degrees Celsius
 mg/l = milligrams per liter
 s u = standard units
 mV = milliVolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units
 ERR = Equipment error (e.g., ice buildup, sensor drift, stage below sensor(s), struck by debris, and/or buildup on sensor)

**Table 1b
 Baseflow Water Quality Parameters for SW-2-IP (Atlantic Avenue Drainway)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Remedial Design "Early Action"							
SW-2-IP	08/21/08	23.8	9.0	7.1	222.8	613.7	3.6
	09/18/08	15.6	9.5	6.9	149.2	233.9	47.2
	10/09/08	17.5	9.1	7.1	188.3	497.2	1.6
	11/05/08	13.3	10.8	7.4	431.8	2.0	7.5
	12/09/08	-0.6	9.9	6.5	443.7	512.0	1.8
	01/20/09	0.1	6.4	6.8	160.0	1161.0	177.5
	02/02/09	-0.8	NM	6.6	466.6	1464.0	2.0
	03/18/09	8.9	1.9	7.0	249.4	1418.0	23.0
	04/01/09	5.6	2.0	7.0	352.5	1286.0	2.3
Surface Water Monitoring Plan							
SW-2-IP	04/17/09	17.3	13.2	7.4	55.0	785.7	0.3
	05/12/09	16.9	9.6	7.4	396.6	783.0	2.2
	06/02/09	21.4	12.5	7.7	114.9	841.0	1.9

Notes:
 AAD = Atlantic Avenue Drainway
 C = Degrees Celsius
 mg/l = milligrams per liter
 s.u. = standard units
 mV = milliVolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units
 NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)

Table 1c
Baseflow Water Quality Parameters for SW-3-IP (BECO ROW)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Remedial Design "Early Action"							
SW-3-IP	08/21/08	19.7	9.6	7.5	210.4	906.2	5.2
	09/18/08	NS	NS	NS	NS	NS	NS
	10/09/08	17.4	5.9	7.1	179.4	697.0	4.2
	11/05/08	NS	NS	NS	NS	NS	NS
	12/09/08	NS	NS	NS	NS	NS	NS
	01/20/09	NS	NS	NS	NS	NS	NS
	02/02/09	5.2	9.0	6.8	-17.0	800.7	1.4
	03/18/09	10.5	3.7	7.1	162.4	193.0	58.2
	04/01/09	4.1	2.3	6.8	110.2	ERR	21.3
Surface Water Monitoring Plan							
SW-3-IP	04/17/09	16.4	11.7	6.8	-70.0	908.3	4.7
	05/12/09	13.5	7.3	7.3	370.7	3.0	24.3
	06/02/09	NM	NM	NM	NM	NM	NM

Notes:

BECO ROW = Boston Edison Company right-of-way

C = Degrees Celsius

mg/l = milligrams per liter

s.u. = standard units

mV = millivolts

µS/cm = microSiemens per centimeter

NTU = Nephelometric Turbidity Units

NS = Not Sampled

NM = Not measured (eg. insufficient flow and/or due to equipment limitations)

ERR = Equipment error (eg. ice buildup, sensor drift, stage below sensor(s), struck by debris, and/or buildup on sensor)

**Table 1d
 Baseflow Water Quality Parameters for SW-02-TT (HBHA Pond Outlet)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Remedial Design "Early Action"							
SW-02-TT	08/21/08	23.7	7.4	6.8	264.5	880.3	6.2
	09/18/08	17.4	6.3	6.8	178.9	728.0	5.7
	10/09/08	16.5	7.9	6.8	192.2	888.2	5.4
	11/05/08	8.6	7.1	6.7	466.9	854.0	30.2
	12/09/08	1.7	10.3	6.5	504.2	780.0	13.5
	01/20/09	0.9	13.9	6.8	139.0	11.8	9.2
	02/02/09	1.2	NM	6.4	336.6	1176.0	14.8
	03/18/09	7.1	11.3	6.5	451.4	11.7	24.2
	04/01/09	7.1	10.0	6.5	479.3	948.0	16.8
Surface Water Monitoring Plan							
SW-02-TT	04/17/09	12.5	10.4	6.8	74.0	959.5	22.5
	05/12/09	14.8	7.6	6.7	480.8	800.0	30.1
	06/02/09	18.1	14.8	7.3	139.2	974.0	24.9

Notes:

HBHA = Halls Brook Holding Area

C = Degrees Celsius

mg/l = milligrams per liter

s.u. = standard units

mV = milliVolts

µS/cm = microSiemens per centimeter

NTU = Nephelometric Turbidity Units

NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)

Table 1e
Baseflow Water Quality Parameters for SW-03-TT (Aberjona River)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Surface Water Monitoring Plan							
SW-03-TT	04/17/09	13.5	11.1	6.6	36.0	967.8	7.8
	05/12/09	18.7	5.2	6.9	79.6	733.0	67.9
	06/02/09	16.9	5.8	7.5	31.8	1261.0	1257.0

Notes:

C = Degrees Celsius
mg/l = milligrams per liter
s.u. = standard units
mV = milliVolts
µS/cm = microSiemens per centimeter
NTU = Nephelometric Turbidity Units

**Table 1f
 Baseflow Water Quality Parameters for SW-04-TT (HBHA Wetland Outlet)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
SW-04-TT	08/21/08	20.2	9.8	6.8	224.0	883.1	8.4
	09/18/08	16.8	7.0	6.8	81.7	727.8	9.6
	10/09/08	18.0	8.0	6.8	138.4	920.0	8.1
	11/05/08	8.7	2.7	6.7	243.7	916.0	0.0
	12/09/08	1.4	8.8	6.0	350.9	778.0	0.0
	01/20/09	0.2	4.6	6.0	NM	1172.0	0.0
	02/02/09	0.8	4.5	8.0	335.5	1394.0	0.0
	03/18/09	10.6	14.2	7.8	222.8	1063.0	0.2
	04/01/09	6.8	10.7	7.8	226.0	844.0	0.0
Surface Water Monitoring Plan							
SW-04-TT	04/17/09	11.9	10.7	6.9	-10.0	1289.0	3.3
	05/12/09	19.4	11.7	6.8	286.0	570.0	7.5
	06/02/09	19.0	14.1	7.5	83.6	978.0	9.6

Notes:

HBHA = Halls Brook Holding Area

C = Degrees Celsius

mg/l = milligrams per liter

s.u. = standard units

mV = milliVolts

µS/cm = microSiemens per centimeter

NTU = Nephelometric Turbidity Units

NM = Not measured (eg. insufficient flow and/or due to equipment limitations)

Table 1g
Baseflow Water Quality Parameters for SW-05-TT (Salem Street)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Surface Water Monitoring Plan							
SW-05-TT	04/17/09	10.7	10.7	7.0	54.0	1154.0	5.1
	05/12/09	17.9	3.1	7.1	319.8	929.0	41.7
	06/02/09	18.9	12.3	7.6	135.1	1121.0	12.9

Notes:

C = Degrees Celsius
 mg/l = milligrams per liter
 s u = standard units
 mV = milliVolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units

Table 1h
Baseflow Water Quality Parameters for SW-06-TT (Montvale Avenue)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Surface Water Monitoring Plan							
SW-06-TT	04/17/09	8.7	10.5	7.0	145.0	1212.0	3.3
	05/12/09	14.6	14.3	6.8	420.4	723.2	17.2
	06/02/09	16.6	6.7	7.5	96.9	1120.0	32.6

Notes:

C = Degrees Celsius
 mg/l = milligrams per liter
 s.u. = standard units
 mV = millivolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units

Table 1i
Baseflow Water Quality Parameters for SW-07-TT (Swanton Street)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Surface Water Monitoring Plan							
SW-07-TT	04/17/09	9.3	11.2	6.9	60.0	1145.0	2.6
	05/12/09	14.6	8.4	6.9	464.2	920.0	13.7
	06/02/09	16.8	7.5	7.9	54.8	1042.0	1.5

Notes:

C = Degrees Celsius
 mg/l = milligrams per liter
 s.u. = standard units
 mV = millivolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units

Table 1j
Baseflow Water Quality Parameters for SW-08-TT (USGS / Mystic Avenue)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Temperature (°C)	Dissolved Oxygen (mg/l)	pH (s.u.)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
Surface Water Monitoring Plan							
SW-08-TT	04/17/09	9.9	10.9	6.9	177.0	1074.0	5.2
	05/12/09	15.0	7.1	6.9	498.0	878.0	46.3
	06/02/09	16.6	9.3	8.4	63.4	970.0	33.3

Notes:

USGS = United States Geological Survey
 C = Degrees Celsius
 mg/l = milligrams per liter
 s.u. = standard units
 mV = milliVolts
 µS/cm = microSiemens per centimeter
 NTU = Nephelometric Turbidity Units

**Table 2a
 Baseflow Laboratory Analytical Results for SW-01-TT (Halls Brook)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Groundwater & Surface Water Investigation Plan													
SW-1	08/29/00	NC	--	0.0036J	0.0031U	--	--	8	--	--	--	--	--
	10/05/00	NC	--	0.0025U	0.0025U	--	--	5U	--	--	--	--	--
	04/05/01	NC	--	0.0035U	0.0035U	--	--	5U	--	--	--	--	--
Multiple Source Groundwater Response Plan													
SW-01-TT	07/14/01	NC	--	0.0037UJ	0.0012UJ	1.25	0.567	4.1	--	--	--	--	--
	08/23/01	NC	--	0.009U	0.0052U	1.1J	0.153J	6.8	--	--	--	--	--
	09/18/01	NC	--	0.0022J	0.0012U	0.457	0.134U	1.6J	--	--	--	--	--
	10/22/01	NC	--	0.003U	0.003U	0.378	0.218	4U	--	--	--	--	--
	11/19/01	NC	--	0.003U	0.003U	0.285J	0.114	1J	--	--	--	--	--
	12/17/01	NC	--	0.003U	0.0034J	0.591J	0.105J	10.4	--	--	--	--	--
	01/04/02	NC	--	0.003U	0.003U	0.847	0.22U	4	--	--	--	--	--
	02/15/02	NC	--	0.0024U	0.0024U	1.05	0.342	11J	--	--	--	--	--
	03/12/02	NC	--	0.0017U	0.0017U	0.725	0.395	2.4J	--	--	--	--	--
	04/17/02	NC	--	0.002U	0.002U	1.17J	0.499	5.7	--	--	--	--	--
	05/08/02	NC	--	0.002U	0.002U	1.16	0.538	3.4J	--	--	--	--	--
	06/20/02	NC	--	0.002U	0.002U	1.65	0.868	6.4J	--	--	--	--	--
	07/16/02	NC	--	0.0038	0.0013U	1.21	0.0742U	7.2	--	--	--	--	--
	08/06/02	NC	--	0.0032	0.0014J	0.915	0.075U	3.2J	--	--	--	--	--
	09/10/02	NC	--	0.0023UJ	0.0013U	0.732	0.105U	3.4J	--	--	--	--	--
	10/18/02	NC	--	0.0042J	0.003U	2.06	0.0818U	20.4	--	--	--	--	--
	10/25/02	NC	--	0.003U	0.003U	0.373	0.152	2UJ	--	--	--	--	--
Remedial Design "Early Action"													
SW-01-TT	08/21/08	NM	0.5U	0.005J	0.005J	--	--	5U	3.51	0.13	1.2	2.6	0.3U
	09/18/08	NM	0.5U	0.005U	0.005U	--	--	5U	3.13	0.06	1.1	3.7	0.57
	10/09/08	NM	0.5U	0.005U	0.005U	--	--	5U	3.98	0.08	1	4.8	0.82
	11/05/08	-5	0.5U	0.005U	0.005U	--	--	6	2.58	0.04J	0.81	4	1.4
	12/09/08	6.78	0.5U	0.003U	0.003U	--	--	8.1	3.96	0.01J	7.6	5	1
	01/20/09	NM	0.5U	0.003U	0.003U	--	--	7.9	3.24	0.034J	1	3.6	0.36
	02/02/09	7.28	0.5U	0.003U	0.003U	--	--	5U	2.89	0.06	1.1	3.5	0.61
	03/18/09	9.95	0.5U	0.003U	0.003U	--	--	5U	2.75	0.05U	1.1	3.8	1
	04/01/09	9.15	0.5U	0.003U	0.003U	--	--	12	2.09	0.05U	0.86	3.2	1.1
	Surface Water Monitoring Plan												
SW-01-TT	04/17/09*	8.86	0.5U	0.005	0.003	0.92	0.26	5U	2.43	0.036J	1	3	0.57
	05/12/09*	7.53	0.5U	0.002J	0.003U	1.3	0.5	5U	2.97	0.05	0.96	3.8	0.83
	06/02/09*	4.19	0.5U	0.003	0.003U	0.76	0.23	5U	2.39	0.32	0.96	2.7	0.31

Notes:

- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated
- U = Compound or sample not detected; value shown is reporting limit
- NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)
- * = Not yet validated

**Table 2b
Baseflow Laboratory Analytical Results for SW-02-TT (HBHA Pond Outlet)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts**

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Groundwater & Surface Water Investigation Plan													
SW-4	08/29/00	NC	--	0.0211	0.0031U	1.15	--	5U	--	--	--	--	--
	10/05/00	NC	--	0.0131	0.0025U	0.966	--	5U	--	--	--	--	--
	04/05/01	NC	--	0.0069J	0.0112J	1.05	--	5U	--	--	--	--	--
Multiple Source Groundwater Response Plan													
SW-02-TT	07/14/01	NC	--	0.0217	0.0096J	2.28	1.12	4.3	--	--	--	--	--
	08/23/01	NC	--	0.0209	0.0058U	1.6J	0.349	4.6	--	--	--	--	--
	09/18/01	NC	--	0.0173	0.0045	1.1	0.114U	5.6J	--	--	--	--	--
	10/22/01	NC	--	0.0312	0.0032J	2.23	0.159	5.6	--	--	--	--	--
	11/19/01	NC	--	0.0431	0.004J	3.51J	0.0472	12.8J	--	--	--	--	--
	12/17/01	NC	--	0.0235	0.0045J	2.82J	0.0992J	9.6	--	--	--	--	--
	01/04/02	NC	--	0.0118	0.0055J	1.53	0.193U	1.6	--	--	--	--	--
	02/15/02	NC	--	0.0119	0.005	1.79	0.309	4J	--	--	--	--	--
	03/12/02	NC	--	0.0205	0.0079	2.21	0.548	5.8J	--	--	--	--	--
	04/17/02	NC	--	0.0113	0.0061	1.41J	0.706	3.2	--	--	--	--	--
	05/08/02	NC	--	0.0122	0.008	1.66	0.952	3J	--	--	--	--	--
	06/20/02	NC	--	0.0136J	0.0065U	1.85	0.676	4.4J	--	--	--	--	--
	07/16/02	NC	--	0.0232	0.0051	1.84	0.042U	4.4	--	--	--	--	--
	08/06/02	NC	--	0.0281	0.0044	1.91	0.0509U	6.6J	--	--	--	--	--
	09/10/02	NC	--	0.0168	0.0024UJ	1.36	0.0407U	2.8J	--	--	--	--	--
	10/18/02	NC	--	0.0774	0.0083	6.52	0.297	23.6	--	--	--	--	--
10/25/02	NC	--	0.0236	0.0054J	1.82	0.351	4UJ	--	--	--	--	--	
Remedial Design "Early Action"													
SW-02-TT	08/21/08	NM	0.5U	0.029	0.006	--	--	5U	7.73	0.1	0.76	8.2	0.47
	09/18/08	NM	0.5U	0.021	0.005U	--	--	5U	6.01	0.08	0.82	6.8	0.79
	10/09/08	NM	0.5U	0.019	0.0048J	--	--	5U	5.39	0.07	0.81	6.2	0.81
	11/05/08	8.44	0.5U	0.02	0.005	--	--	5U	5.52J	0.05U	0.57	6.3	0.78
	12/09/08	-6	0.34J	0.017	0.009	--	--	5U	5.51	0.01J	0.88	6	0.49
	01/20/09	NM	0.5U	0.009	0.004	--	--	5U	4.11	0.027J	0.99	4.6	0.49
	02/02/09	-5	0.28J	0.015	0.011	--	--	5U	3.93	0.07	0.98	4.4	0.47
	03/18/09	NM	0.9	0.015	0.01	--	--	5U	4.6	0.05U	0.96	5.6	1
	04/01/09	-6	0.7	0.014	0.007	--	--	5U	3.51	0.05U	0.79	4.7	1.2
	Surface Water Monitoring Plan												
SW-02-TT	04/17/09*	8.62	0.46J	0.015	0.006	1.4	0.2	5U	4.12	0.05U	1	5.9	1.8
	05/12/09*	4.27	0.27J	0.017	0.006	1.9	0.33	5U	4.93	0.043J	0.7	5.6	0.67
	06/02/09*	0.90	0.5U	0.018	0.008	1.4	0.06	5U	5.87	0.14	0.78	6.6	0.73

Notes:

HBHA = Halls Brook Holding Area

cfs = cubic feet per second

µg/l = micrograms per liter

mg/l = milligrams per liter

TSS = Total Suspended Solids

TKN = Total Kjeldahl Nitrogen

NC = Not Calculated

-- = Sample not analyzed for this compound

U = Compound or sample not detected, value shown is reporting limit

J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated

NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)

* = Not yet validated

**Table 2c
 Baseflow Laboratory Analytical Results for SW-03-TT (Aberjona)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Multiple Source Groundwater Response Plan													
SW-03-TT	07/14/01	NC	--	0.0129	0.0096J	1.94	1.12	3.6	--	--	--	--	--
	08/23/01	NC	--	0.0184	0.0104U	1.83J	0.568	3.6	--	--	--	--	--
	09/18/01	NC	--	0.0281	0.0179	3.13	1.46	6.4J	--	--	--	--	--
	10/22/01	NC	--	0.018	0.0136	2.13	0.985	4.8	--	--	--	--	--
	11/19/01	NC	--	0.032	0.0242	3.53J	2.43	10.4J	--	--	--	--	--
	12/17/01	NC	--	0.029	0.0224	3.32J	1.97	6	--	--	--	--	--
	01/04/02	NC	--	0.0278	0.019	3.42	2.11	10.6	--	--	--	--	--
	02/15/02	NC	--	0.0128	0.0118	1.63	1.14	1.4J	--	--	--	--	--
	03/12/02	NC	--	0.0066	0.0076	1.04	0.935	1.4J	--	--	--	--	--
	04/17/02	NC	--	0.0071U	0.0058U	1.16J	0.78	2.1	--	--	--	--	--
	05/08/02	NC	--	0.0135	0.0065	2.57	0.773	2J	--	--	--	--	--
	06/20/02	NC	--	0.0111U	0.0057U	1.82	0.778	4UJ	--	--	--	--	--
	07/16/02	NC	--	0.0246	0.0134	3.07	1.11	5.2	--	--	--	--	--
	08/06/02	NC	--	0.0325	0.0147	3.16	0.682	7J	--	--	--	--	--
08/31/02	NC	--	0.0195	0.0037UJ	1.73	0.14U	8.8J	--	--	--	--	--	
09/10/02	NC	--	0.0348	0.0161	3.57	1.31	5.4J	--	--	--	--	--	
10/18/02	NC	--	0.0284	0.003U	3.14	0.0721U	17.2	--	--	--	--	--	
10/25/02	NC	--	0.0072	0.006	1.15	0.683	3J	--	--	--	--	--	
Surface Water Monitoring Plan													
SW-03-TT	04/17/09*	8.58	0.5U	0.006	0.004	--	--	5U	0.778	0.06	1.6	1.2	0.42
	05/12/09*	8.15	0.5U	0.006	0.004	--	--	5U	0.905	0.13	1.3	1.6	0.7
	06/02/09*	3.82	0.5U	0.008	0.006	--	--	5U	1.72	0.43	1.5	2.2	0.48

Notes:

- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- U = Compound or sample not detected; value shown is reporting limit
- * = Not yet validated

**Table 2d
 Baseflow Laboratory Analytical Results for SW-04-TT (HBHA Wetland Outlet)
 Industri-Plex Superfund Site Operable Unit 2
 Woburn, Massachusetts**

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Groundwater & Surface Water Investigation Plan													
SW-9	08/29/00	NC	--	0.0235	0.0031U	2.77	--	8.5	--	--	--	--	--
	10/05/00	NC	--	0.0126	0.0123	1.54	--	5U	--	--	--	--	--
	04/05/01	NC	--	0.0035U	0.0038J	0.883	--	5U	--	--	--	--	--
Multiple Source Groundwater Response Plan													
SW-04-TT	07/14/01	NC	--	0.023	0.0101J	3.09	1.6	4.5	--	--	--	--	--
	08/23/01	NC	--	0.0501	0.014	6.14J	0.616	20.4	--	--	--	--	--
	09/18/01	NC	--	0.0246	0.005	3.3	0.14U	54.4J	--	--	--	--	--
	10/22/01	NC	--	0.0193	0.0031J	2.72	0.12J	6.4	--	--	--	--	--
	11/19/01	NC	--	0.0649	0.005J	9.66J	0.0666	109J	--	--	--	--	--
	12/17/01	NC	--	0.171	0.0049J	27.9J	0.109J	85	--	--	--	--	--
	01/04/02	NC	--	0.0242	0.0044J	3.84	0.361	9	--	--	--	--	--
	02/15/02	NC	--	0.0251	0.0037J	3.9	0.409	8.2J	--	--	--	--	--
	03/12/02	NC	--	0.0166	0.006	2.1	0.626	4.8J	--	--	--	--	--
	04/17/02	NC	--	0.0135	0.0077U	1.88J	0.741	5.2	--	--	--	--	--
	05/08/02	NC	--	0.0086	0.0082	1.28	1.2	5.3J	--	--	--	--	--
	06/20/02	NC	--	0.0238	0.0093U	3.73	1.34	4J	--	--	--	--	--
	07/16/02	NC	--	0.0396	0.0062	4.52	0.0484U	12.6	--	--	--	--	--
	08/06/02	NC	--	0.0368	0.009	3.8	0.0791U	13.6J	--	--	--	--	--
09/10/02	NC	--	0.0314	0.0052U	3.64	0.0356U	9.2J	--	--	--	--	--	
10/18/02	NC	--	0.0478	0.0141	4.6	1.14	15.6	--	--	--	--	--	
10/25/02	NC	--	0.0207	0.0045J	2.76	0.447	8.6J	--	--	--	--	--	
Remedial Design "Early Action"													
SW-04-TT	08/21/08	NM	0.5U	0.025	0.007	--	--	5U	6.92	0.12	0.8	7.3	0.38
	09/18/08	NM	0.5U	0.022	0.005J	--	--	5U	5.29	0.09	0.8	5.7	0.41
	10/09/08	NM	0.5U	0.02	0.003J	--	--	5U	5.18	0.09	0.95	5.7	0.52
	11/05/08	NM	0.5U	0.018	0.006	--	--	5U	6.22J	0.047J	0.65	7.2	0.98
	12/09/08	NC	0.5U	0.023	0.007	--	--	5U	5.36	0.01J	0.8	6	0.64
	01/20/09	10.01	0.5U	0.02	0.008	--	--	5.3	4.44	0.05U	0.94	5.1	0.66
	02/02/09	9.21	0.5U	0.013	0.008	--	--	5U	3.71	0.029J	0.92	4.4	0.69
	03/18/09	8.98	0.5U	0.012	0.005	--	--	5U	4.08	0.05U	0.95	5	0.92
	04/01/09	9.06	0.46J	0.012	0.006	--	--	5U	3.72	0.05U	0.74	4.5	0.78
	Surface Water Monitoring Plan												
SW-04-TT	04/17/09*	5.56	0.5U	0.016	0.006	--	--	5U	3.83	0.05U	0.96	4.6	0.77
	05/12/09*	0.75	0.5U	0.018	0.004	--	--	5U	3.87	0.06	0.75	4.7	0.83
	06/02/09*	3.42	0.5U	0.018	0.009	--	--	5U	5.12	0.049J	0.9	6	0.88

Notes:

- HBHA = Halls Brook Holding Area
- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- U = Compound or sample not detected; value shown is reporting limit
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)
- * = Not yet validated

Table 2e
Baseflow Laboratory Analytical Results for SW-05-TT (Salem Street)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Multiple Source Groundwater Response Plan													
SW-05-TT	07/14/01	NC	--	0.0218	0.0114J	2.88	1.48	4.5	--	--	--	--	--
	08/23/01	NC	--	0.0261	0.013U	2.46J	0.522	2	--	--	--	--	--
	09/18/01	NC	--	0.0191	0.0043	2.27	0.254	6.4J	--	--	--	--	--
	10/22/01	NC	--	0.0197	0.0072	2.23	0.373	5.2	--	--	--	--	--
	11/19/01	NC	--	0.0238	0.0057J	3.05J	0.134	10J	--	--	--	--	--
	12/17/01	NC	--	0.0248	0.0102	2.93J	0.66	9.2	--	--	--	--	--
	01/04/02	NC	--	0.0195	0.0077	2.71	0.83	7.6	--	--	--	--	--
	02/15/02	NC	--	0.0142	0.0047J	2.04	0.489	5.4J	--	--	--	--	--
	03/12/02	NC	--	0.0091	0.0046	1.46	0.659	2.6J	--	--	--	--	--
	04/17/02	NC	--	0.0158	0.0064U	1.94J	0.511	7.3	--	--	--	--	--
	05/08/02	NC	--	0.013	0.0061	2.17	0.865	5.8J	--	--	--	--	--
	06/20/02	NC	--	0.0239	0.0072U	3.46	0.927	6.4J	--	--	--	--	--
	07/16/02	NC	--	0.028	0.0038	3.02	0.0238U	5.4	--	--	--	--	--
	08/06/02	NC	--	0.0241	0.0044	1.95	0.0089UJ	6.8J	--	--	--	--	--
	08/31/02	NC	--	0.0126	0.0025U	1.16	0.0884U	3J	--	--	--	--	--
09/10/02	NC	--	0.0238	0.0052U	2.44	0.0087U	5.2J	--	--	--	--	--	
10/18/02	NC	--	0.012	0.003U	1.46	0.244	6.8	--	--	--	--	--	
10/25/02	NC	--	0.0143	0.0041J	2.15	0.657	5.6J	--	--	--	--	--	
Surface Water Monitoring Plan													
SW-05-TT	04/17/09*	48.55	0.5U	0.009	0.003	--	--	5U	2.09	0.048J	1.3	3.1	1
	05/12/09*	48.94	0.5U	0.012	0.003	--	--	5U	2.18	0.08	1	2.7	0.52
	06/02/09*	33.94	0.5U	0.014	0.006	--	--	5U	2.88	0.13	1.2	3.6	0.72

Notes:

- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- U = Compound or sample not detected; value shown is reporting limit
- * = Not yet validated

Table 2f
Baseflow Laboratory Analytical Results for SW-06-TT (Montvale Avenue)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Multiple Source Groundwater Response Plan													
SW-06-TT	07/14/01	NC	--	0.0147	0.0071J	2.05	0.961	4.2	--	--	--	--	--
	08/23/01	NC	--	0.015	0.008U	1.4J	0.355	4.8	--	--	--	--	--
	09/18/01	NC	--	0.0101	0.0029	1.08	0.14U	3.6J	--	--	--	--	--
	10/22/01	NC	--	0.0189	0.003U	2.6	0.355	15.6	--	--	--	--	--
	11/19/01	NC	--	0.018	0.003U	2.56J	0.11	6.4J	--	--	--	--	--
	12/17/01	NC	--	0.0112	0.0043J	1.3J	0.19J	3.6	--	--	--	--	--
	01/04/02	NC	--	0.01	0.003U	1.52	0.254U	3	--	--	--	--	--
	02/15/02	NC	--	0.0092	0.0029J	1.31	0.277	3.4J	--	--	--	--	--
	03/12/02	NC	--	0.0055	0.0021J	0.982	0.431	2.2J	--	--	--	--	--
	04/17/02	NC	--	0.0038	0.004U	0.359J	0.32	5.2	--	--	--	--	--
	05/08/02	NC	--	0.0066	0.004	1.35	0.5	4.6J	--	--	--	--	--
	06/20/02	NC	--	0.0148	0.0026UJ	2.18	0.588	4.4J	--	--	--	--	--
	07/16/02	NC	--	0.0133	0.0013U	1.51	0.0276U	5	--	--	--	--	--
	08/06/02	NC	--	0.0112	0.0028	1.01	0.0098UJ	3.3J	--	--	--	--	--
	09/10/02	NC	--	0.0084	0.0016UJ	1.11	0.0087U	3.2J	--	--	--	--	--
	10/18/02	NC	--	0.0255	0.0026J	3.4	0.378	27.8	--	--	--	--	--
	10/25/02	NC	--	0.0076	0.0033J	1.09	0.375	2UJ	--	--	--	--	--
Surface Water Monitoring Plan													
SW-06-TT	04/17/09*	90.91	0.5U	0.008	0.005	--	--	5U	1.38	0.07	1.5	2.9	1.5
	05/12/09*	13.25	0.5U	0.009	0.0027J	--	--	5U	1.43	0.08	1.3	2.7	1.3
	06/02/09*	7.03	0.5U	0.01	0.004	--	--	5U	1.8	0.14	1.6	2.4	0.6

Notes:

- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- U = Compound or sample not detected; value shown is reporting limit
- * = Not yet validated

**Table 2g
Baseflow Laboratory Analytical Results for SW-07-TT (Swanton Street)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts**

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Multiple Source Groundwater Response Plan													
SW-07-TT	07/14/01	NC	--	0.0094UJ	0.0045J	1.46	0.699	50	--	--	--	--	--
	08/23/01	NC	--	0.0109U	0.0047U	1.01J	0.254J	4.6	--	--	--	--	--
	09/18/01	NC	--	0.0063	0.0015J	1.02	0.139U	2.8J	--	--	--	--	--
	10/22/01	NC	--	0.0056J	0.003U	0.951	0.243	4U	--	--	--	--	--
	11/19/01	NC	--	0.0047J	0.003U	0.779J	0.143	1.2J	--	--	--	--	--
	12/17/01	NC	--	0.0053J	0.003U	1.06J	0.316J	3	--	--	--	--	--
	01/04/02	NC	--	0.0057J	0.003U	1.08	0.163U	2.4	--	--	--	--	--
	02/15/02	NC	--	0.0066	0.0024J	1.2	0.249	7.6J	--	--	--	--	--
	03/12/02	NC	--	0.0041	0.0017U	0.887	0.331	8.4J	--	--	--	--	--
	04/17/02	NC	--	0.0075	0.0037	1.21J	0.371	5.2	--	--	--	--	--
	05/08/02	NC	--	0.0061	0.0023J	1.24	0.394	7J	--	--	--	--	--
	06/20/02	NC	--	0.0105U	0.0034UJ	1.8	0.396	10J	--	--	--	--	--
	07/16/02	NC	--	0.0065	0.0013U	1.13	0.0229U	4	--	--	--	--	--
	08/06/02	NC	--	0.0083	0.0033	1.18	0.018U	3.5J	--	--	--	--	--
	08/31/02	NC	--	0.0048J	0.0025U	0.777	0.0495U	6J	--	--	--	--	--
09/10/02	NC	--	0.0079U	0.0035U	1.05	0.0156UJ	2.2J	--	--	--	--	--	
10/18/02	NC	--	0.0112	0.0036J	1.66	0.224	5.4	--	--	--	--	--	
10/25/02	NC	--	0.0048J	0.003U	0.978	0.373	5.2J	--	--	--	--	--	
Surface Water Monitoring Plan													
SW-07-TT	04/17/09*	2.27	0.5U	0.005	0.002J	--	--	5U	0.787	0.05	1.7	1.2	0.41
	05/12/09*	84.97	0.5U	0.008	0.0026J	--	--	5U	0.706	0.1	1.5	1.5	0.79
	06/02/09*	73.60	0.5U	0.008	0.005	--	--	8	0.638	0.22	2	1.2	0.56

Notes:

- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NC = Not Calculated
- = Sample not analyzed for this compound
- U = Compound or sample not detected; value shown is reporting limit
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- * = Not yet validated

Table 2h
Baseflow Laboratory Analytical Results for SW-08-TT (USGS / Mystic Avenue)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Multiple Source Groundwater Response Plan													
SW-08-TT	07/14/01	NC	--	0.006UJ	0.0022J	1.36	0.558	6.1	--	--	--	--	--
	08/23/01	NC	--	0.0059U	0.005U	1J	0.258J	4.8	--	--	--	--	--
	09/18/01	NC	--	0.0047	0.0018J	0.696	0.234	3.8J	--	--	--	--	--
	10/22/01	NC	--	0.0026J	0.003U	0.758	0.256	4U	--	--	--	--	--
	11/19/01	NC	--	0.0054J	0.003U	1.57J	0.186	2.4J	--	--	--	--	--
	12/17/01	NC	--	0.0066J	0.003J	0.77J	0.19J	2J	--	--	--	--	--
	01/04/02	NC	--	0.0056J	0.003U	1.06	0.104U	9	--	--	--	--	--
	02/15/02	NC	--	0.0053J	0.0024U	0.95	0.209	3.1J	--	--	--	--	--
	03/12/02	NC	--	0.0025J	0.0017U	0.76	0.227	7J	--	--	--	--	--
	04/17/02	NC	--	0.0057	0.0032	1.02J	0.378	5.1	--	--	--	--	--
	05/08/02	NC	--	0.0034J	0.0016J	1.15	0.312	7.7J	--	--	--	--	--
	06/20/02	NC	--	0.0048U	0.0021UJ	1.19	0.272	4J	--	--	--	--	--
	07/16/02	NC	--	0.0052	0.0013U	1.06	0.0216U	3.3	--	--	--	--	--
	08/06/02	NC	--	0.0064	0.0021J	0.596	0.0206U	3.4J	--	--	--	--	--
	09/10/02	NC	--	0.003U	0.0013U	0.896	0.0087U	2.6J	--	--	--	--	--
10/18/02	NC	--	0.003U	0.003U	1.52	0.469	179	--	--	--	--	--	
10/25/02	NC	--	0.003U	0.003U	0.868	0.34	2.5J	--	--	--	--	--	
Surface Water Monitoring Plan													
SW-08-TT	04/17/09*	206.90	0.5U	0.005	0.003U	--	--	6.5	0.48	0.05	1.4	0.96	0.48
	05/12/09*	126.00	0.5U	0.005	0.003U	--	--	5U	0.42	0.09	1.3	1	0.58
	06/02/09*	108.51	0.5U	0.007	0.0026J	--	--	5U	0.528	0.14	1.7	1.1	0.57

Notes:

USGS = United States Geologic Survey

cfs = cubic feet per second

µg/l = micrograms per liter

mg/l = milligrams per liter

TSS = Total Suspended Solids

TKN = Total Kjeldahl Nitrogen

NC = Not Calculated

-- = Sample not analyzed for this compound

U = Compound or sample not detected, value shown is reporting limit

J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.

* = Not yet validated

Table 2i
Baseflow Laboratory Analytical Results for SW-2-IP (Atlantic Avenue Drainway)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Groundwater & Surface Water Investigation Plan													
SW-2	08/29/00	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/05/00	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/05/01	NC	--	0.0098B	0.0068B	--	--	10.8	--	--	--	--	--
Remedial Design "Early Action"													
SW-2-IP	08/21/08	NM	0.5U	0.007	0.005U	--	--	5U	0.088	0.05J	0.24	0.4	0.31
	09/18/08	NM	0.5U	0.005U	0.005U	--	--	5U	0.075J	0.05U	0.15	0.47	0.47
	10/09/08	NM	0.5U	0.005U	0.005U	--	--	5U	0.0618J	0.034J	0.32	0.35	0.35
	11/05/08	0.02	0.5U	0.0028J	0.005U	--	--	5U	0.0623J	0.05U	0.4	0.86	0.86
	12/09/08	0.79	0.5U	0.003U	0.003U	--	--	5U	0.402	0.02U	0.52	0.71	0.31
	01/20/09	NM	0.5U	0.003U	0.003U	--	--	5U	1.74	0.05U	0.57	2	0.3U
	02/02/09	NM	0.5U	0.003U	0.003U	--	--	5U	1.13	0.044J	0.62	1.9	0.77
	03/18/09	1.57	0.5U	0.003U	0.003U	--	--	5U	0.328	0.05U	1.1	0.8	0.47
	04/01/09	NM	0.5U	0.003U	0.003U	--	--	5U	0.403	0.05U	0.89	0.87	0.47
Surface Water Monitoring Plan													
SW-2-IP	04/17/09*	1.34	0.5U	0.003U	0.003U	0.23	0.08	5U	0.0468J	0.05U	0.87	0.46	0.46
	05/12/09*	1.47	0.5U	0.003U	0.003U	0.59	0.037J	5U	0.103	0.05U	0.21	0.9	0.8
	06/02/09*	NM	0.5U	0.0023J	0.0025U	1.2	0.4	5U	0.088	0.05U	0.46	0.58	0.49

Notes:

- AAD = Atlantic Avenue Drainway
- cfs = cubic feet per second
- µg/l = micrograms per liter
- mg/l = milligrams per liter
- TSS = Total Suspended Solids
- TKN = Total Kjeldahl Nitrogen
- NS = Not sampled
- = Sample not analyzed for this compound
- NC = Not Calculated
- B = The reported result is attributed to laboratory contamination due to the presence of the chemical in the associated laboratory blank.
- U = Compound or sample not detected; value shown is reporting limit
- J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.
- NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)
- * = Not yet validated

Table 2j
Baseflow Laboratory Analytical Results for SW-3-IP (Boston Edison Co. ROW)
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Sample ID	Date	Flow (cfs)	Benzene (µg/l)	Total Arsenic (mg/l)	Dissolved Arsenic (mg/l)	Total Iron (mg/l)	Dissolved Iron (mg/l)	TSS (mg/l)	Ammonia (mg/l)	Nitrite (mg/l)	Nitrate (mg/l)	TKN (mg/l)	Total Organic Nitrogen (mg/l)
Groundwater & Surface Water Investigation Plan													
SW-3	08/29/00	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/05/00	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/05/01	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Remedial Design "Early Action"													
SW-3-IP	08/21/08	NM	--	--	--	--	--	--	23.5	--	--	--	--
	09/18/08	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/09/08	NM	0.5U	0.0028J	0.0047J	--	--	84	12.3	0.15	1.1	13	0.7
	11/05/08	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/09/08	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/09	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/09	NM	0.43J	0.22	0.029	--	--	650	15.7	0.11	1.2	16	0.3
	03/18/09	0.11	3.5	0.144	0.029	--	--	93	22.6	0.036J	1.3	24	1.4
	04/01/09	NM	3.2	0.087	0.055	--	--	35	25.5	0.034J	1.1	26	0.5
Surface Water Monitoring Plan													
SW-3-IP	04/17/09*	0.09	1.3	0.419	0.037	39	2.6	1100	20.1	0.08	1.8	22	1.9
	05/12/09*	NM	0.5U	0.028	0.004	1.7	0.08	140	11.5	0.13	1.5	12	0.5
	06/02/09	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

BECO ROW = Boston Edison Company Right-of-Way

cfs = cubic feet per second

µg/l = micrograms per liter

mg/l = milligrams per liter

TSS = Total Suspended Solids

TKN = Total Kjeldahl Nitrogen

NS = Not Sampled

-- = Sample not analyzed for this compound

U = Compound or sample not detected; value shown is reporting limit

J = Analyte concentration is below quantitation limit, but greater than or equal to 1/2 the laboratory detection limit. Value is estimated.

NM = Not measured (e.g., insufficient flow and/or due to equipment limitations)

* = Not yet validated

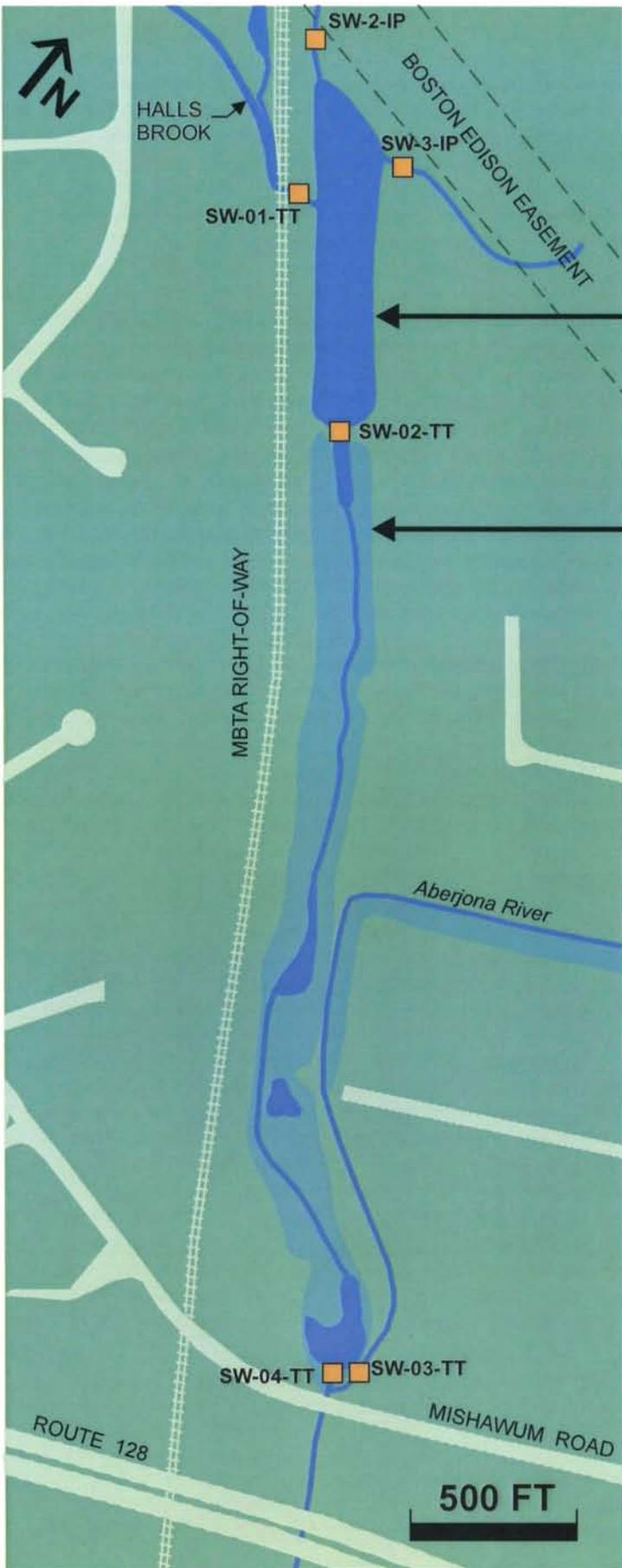
Table 3
Baseflow Gauging Data
Industri-Plex Superfund Site Operable Unit 2
Woburn, Massachusetts

Station ID	Station Description	Date	Surface Water			Groundwater			Gradient
			Measuring Point ¹ (ft)	Staff Gauge Reading (ft)	Surface Water Elevation (ft)	Measuring Point ² (ft)	Depth to Water (ft)	Groundwater Elevation (ft)	
SW-01-TT	Halls Brook	06/02/09	92.00	0.98	91.02	96.87	5.89	90.98	Down
SW-2-IP	AAD	06/02/09	92.34	0.02	92.32	95.16	4.09	91.07	Down
SW-3-IP	BECO ROW	06/02/09	93.74	0.00	93.74	97.76	3.20	94.56	Up
SW-02-TT	HBHA Pond Outlet	06/02/09	92.00	0.78	91.22	98.11	5.20	92.91	Up
SW-03-TT	Aberjona	06/02/09	93.46	0.45	93.01	97.41	3.32	94.09	Up
SW-05-TT	Salem Street	06/02/09	93.89	0.64	93.25	98.23	2.91	95.32	Up
SW-06-TT	Montvale Avenue	06/02/09	93.22	1.58	91.64	98.48	4.07	94.41	Up
SW-07-TT	Swanton Street	06/02/09	90.03	1.00	89.03	93.87	2.52	91.35	Up
SW-08-TT	USGS / Mystic Avenue	06/02/09	90.49	2.58	87.91	95.28	3.60	91.68	Up

Notes:

1. Reference point is base of gauge (0.00 feet)
2. Reference point is top of casing

FIGURES



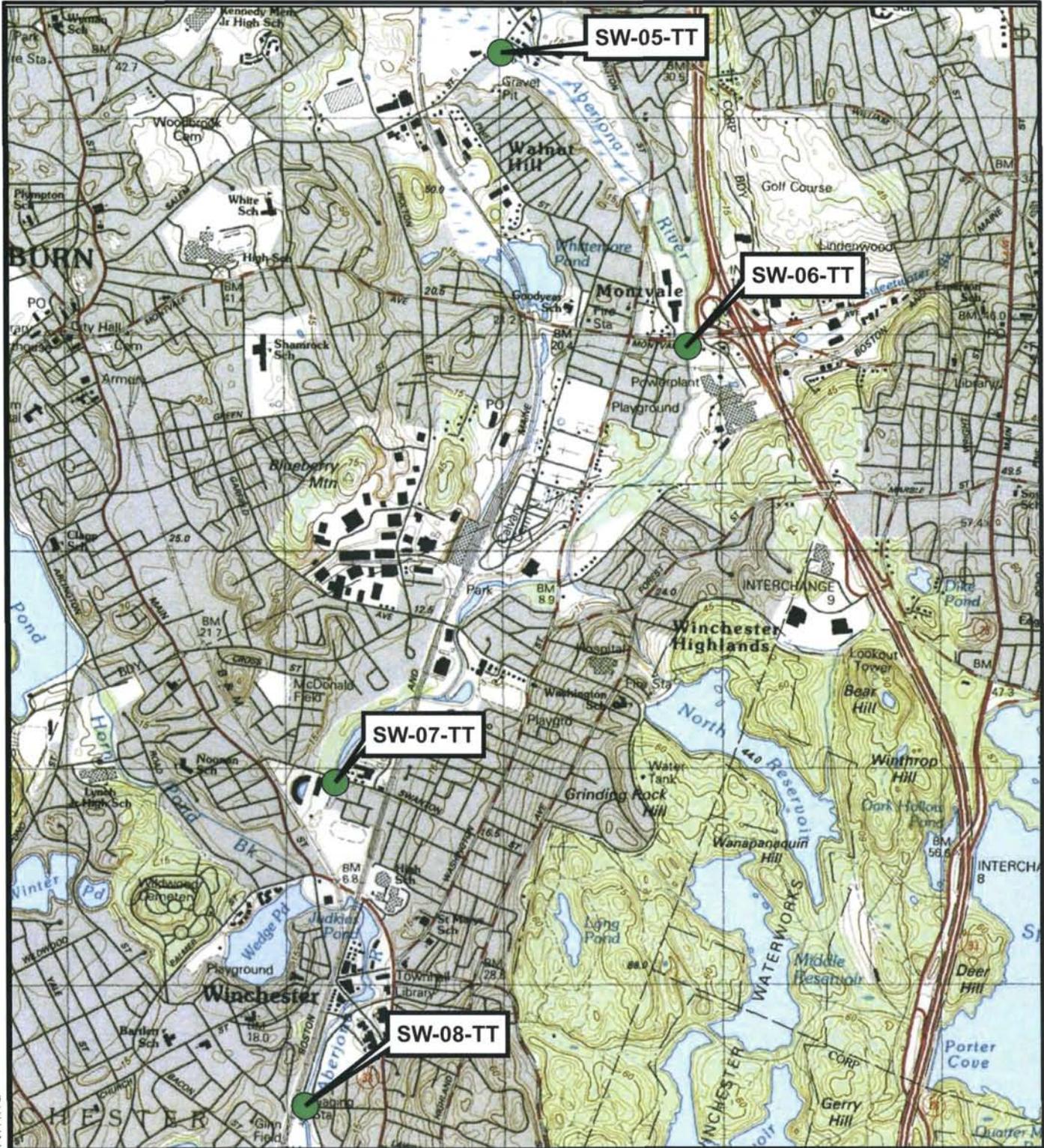
← **HBHA POND**

← **HBHA WETLAND**

LEGEND

SW-01-TT APPROXIMATE LOCATION AND DESIGNATION OF SURFACE WATER MONITORING STATION

<p>Title:</p> <h2 style="margin: 0;">SURFACE WATER MONITORING STATIONS NORTH OF ROUTE 128</h2>			
<p>Prepared for:</p> <p>INDUSTRI-PLEX OU 2 SETTLING DEFENDANTS</p>			
<p>ROUX ROUX ASSOCIATES INC. <i>Environmental consulting & Management</i></p>	<p>Compiled by: LM Prepared by: CRS Project Mgr.: LM File No.: IPS0114202</p>	<p>Date: 7/10/09 Scale: AS SHOWN Office: MA Project No.: 119407M07</p>	<p>FIGURE</p> <h1 style="margin: 0;">1</h1>



■ QUADRANGLE LOCATION



SOURCE:
USGS, 1987.
Reading (Massachusetts) Quadrangle
1:25,000-scale Topographic Map

Title:

SURFACE WATER MONITORING STATIONS SOUTH OF ROUTE 128

Prepared For:

INDUSTRI-PLEX OU 2 SETTLING DEFENDANTS

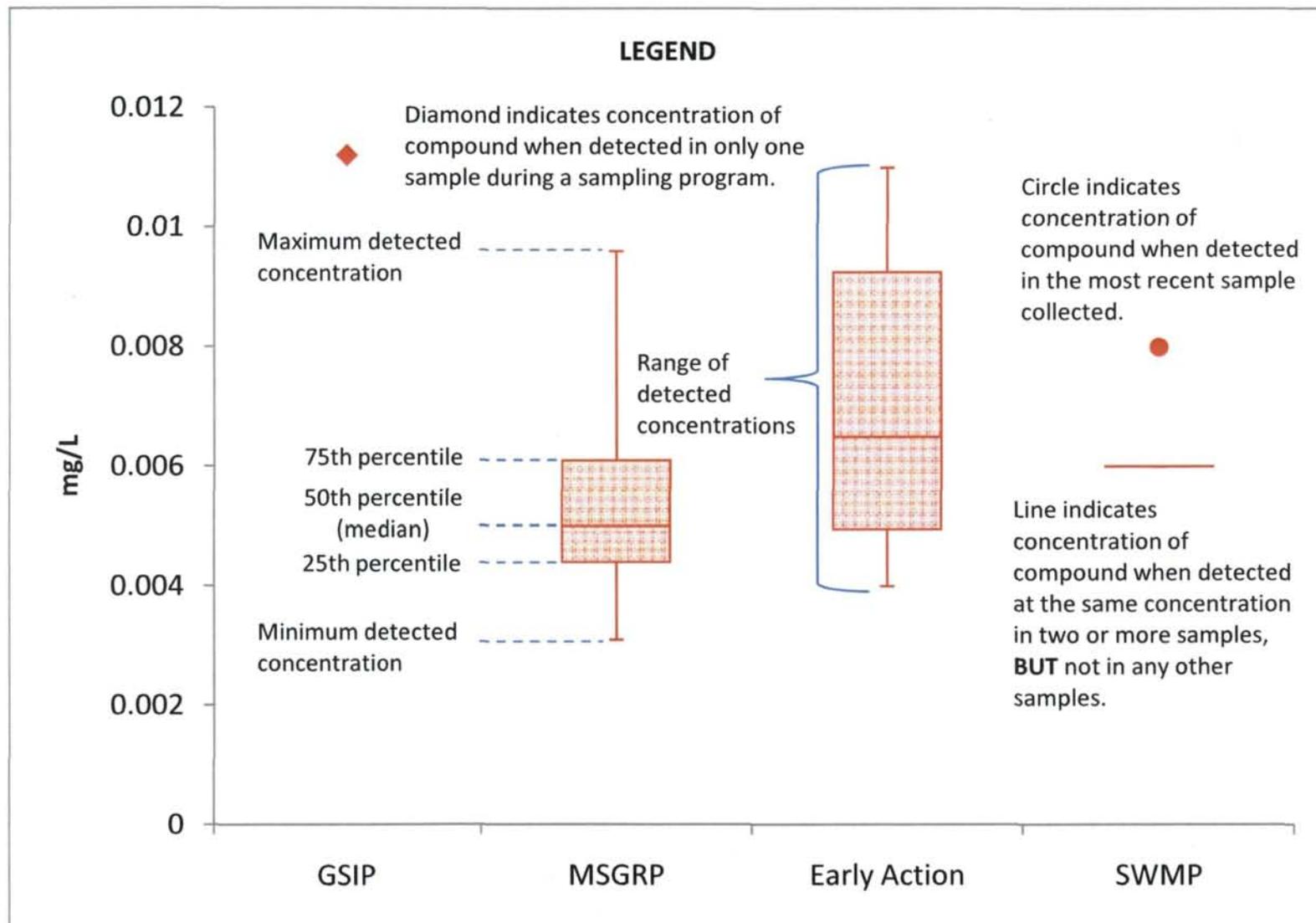


ROUX ASSOCIATES, INC
Environmental Consulting
& Management

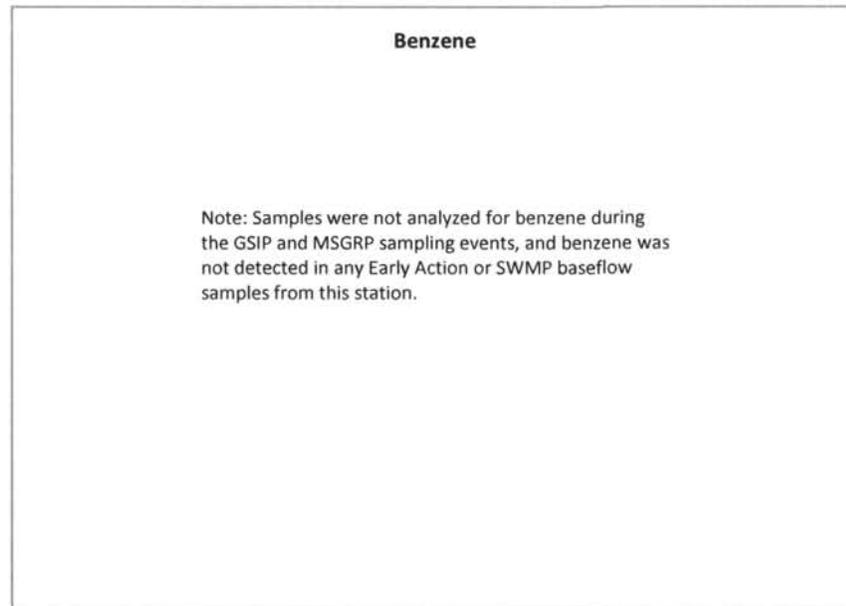
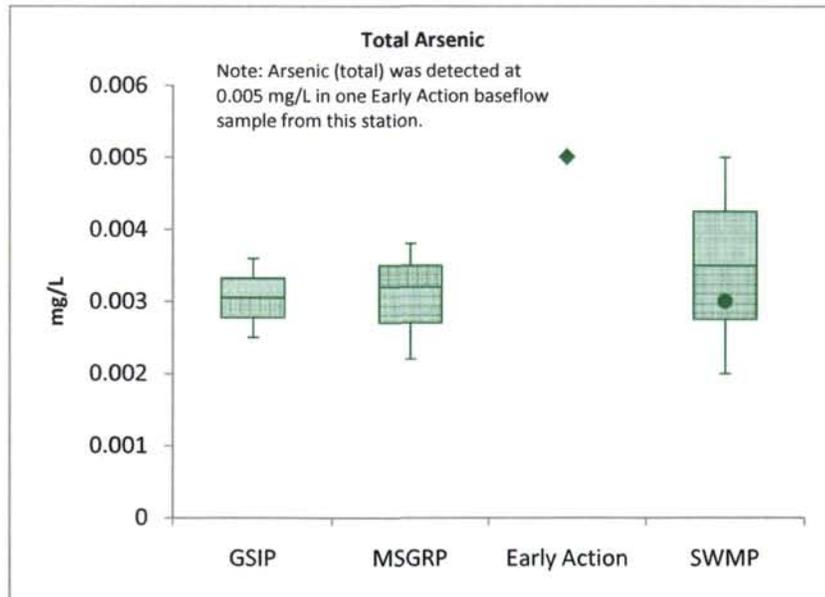
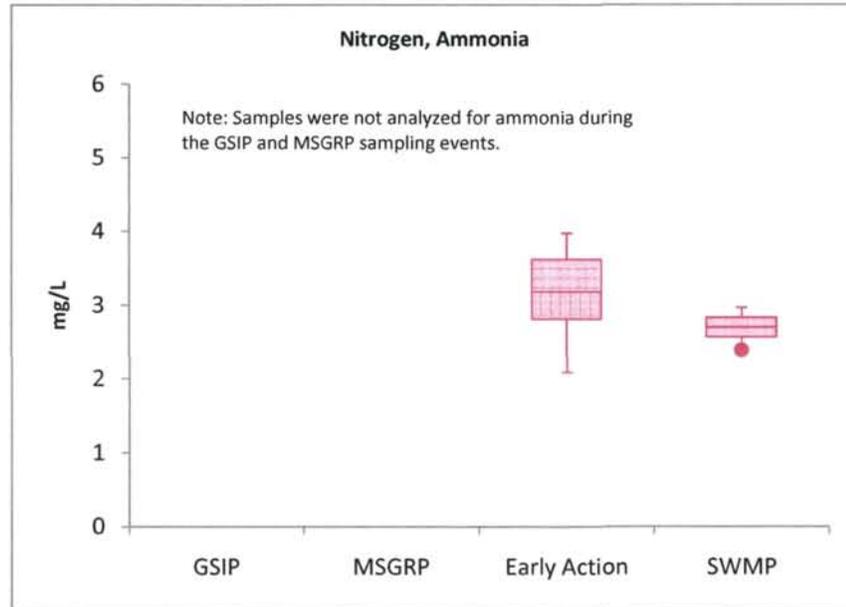
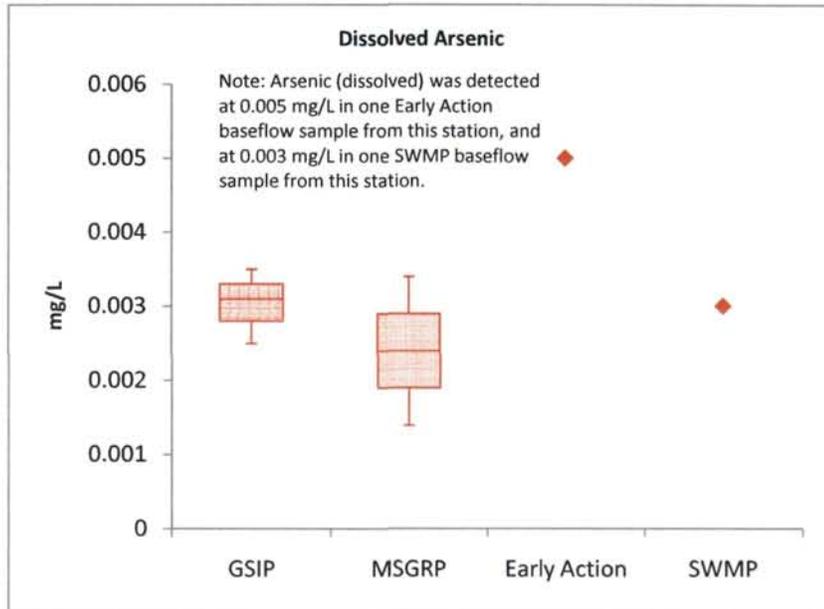
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Project Mgr.: LM	Office: MA
File No.: IPS0114201	Project: 119401M

FIGURE	2

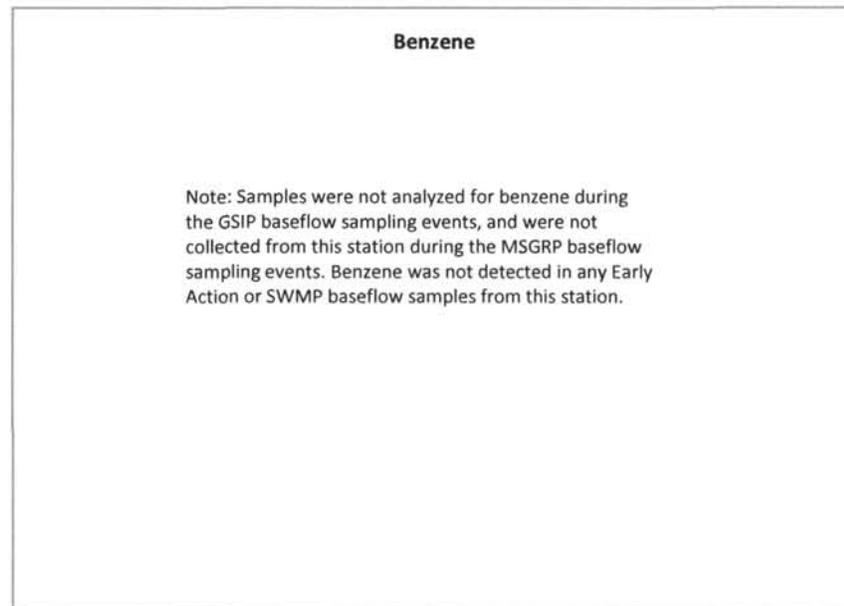
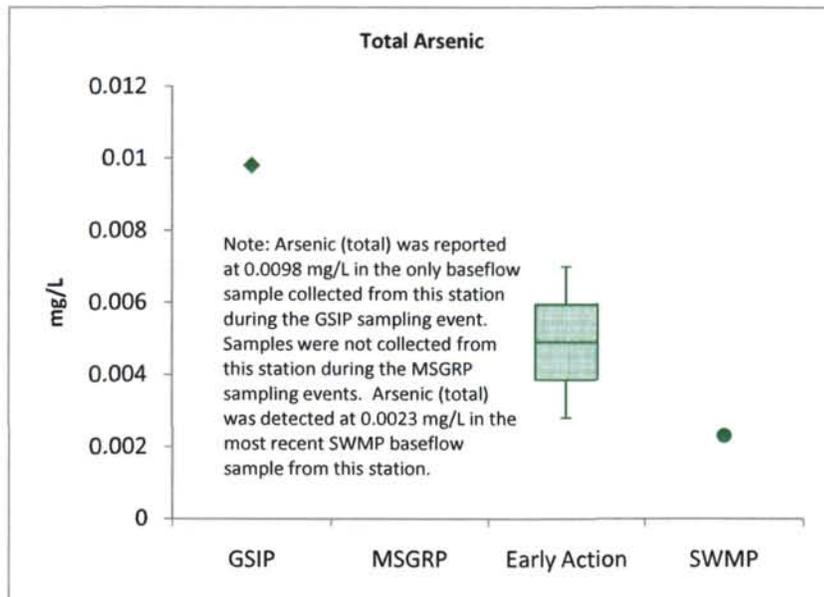
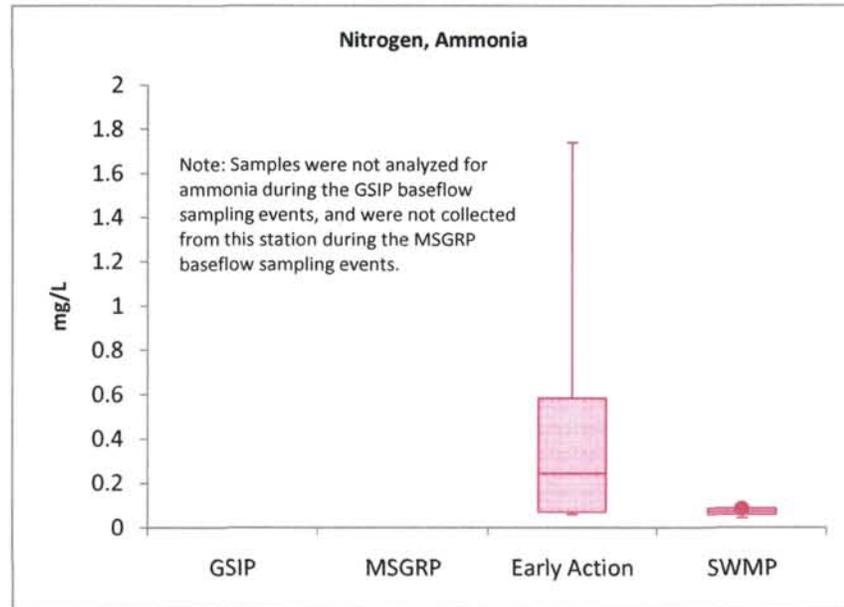
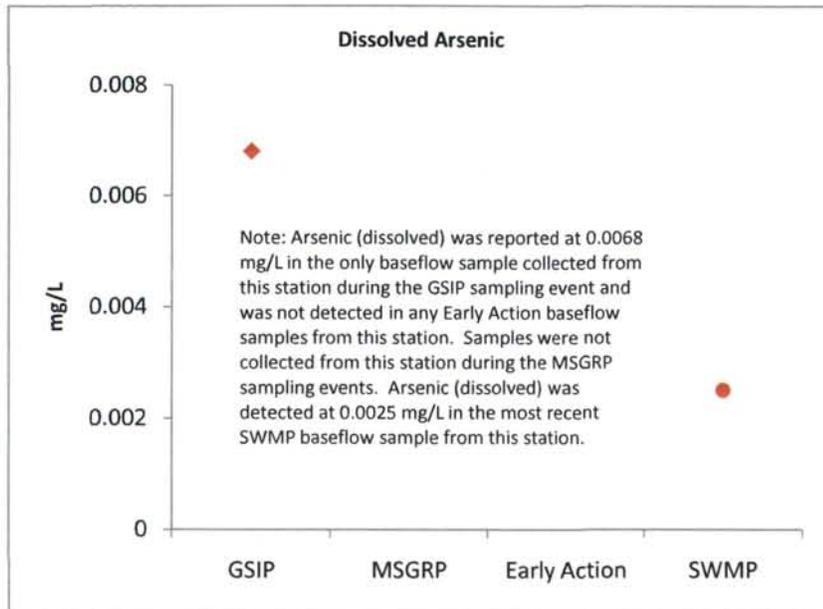
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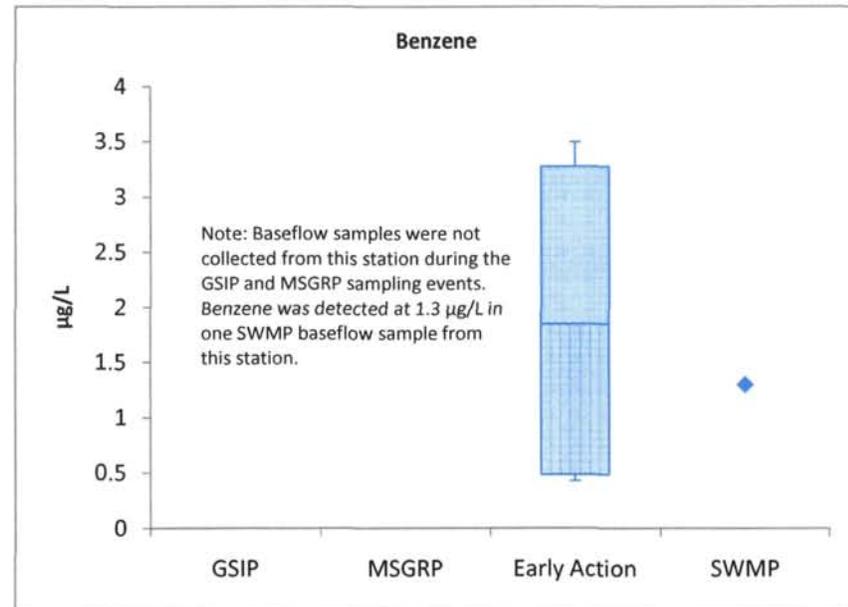
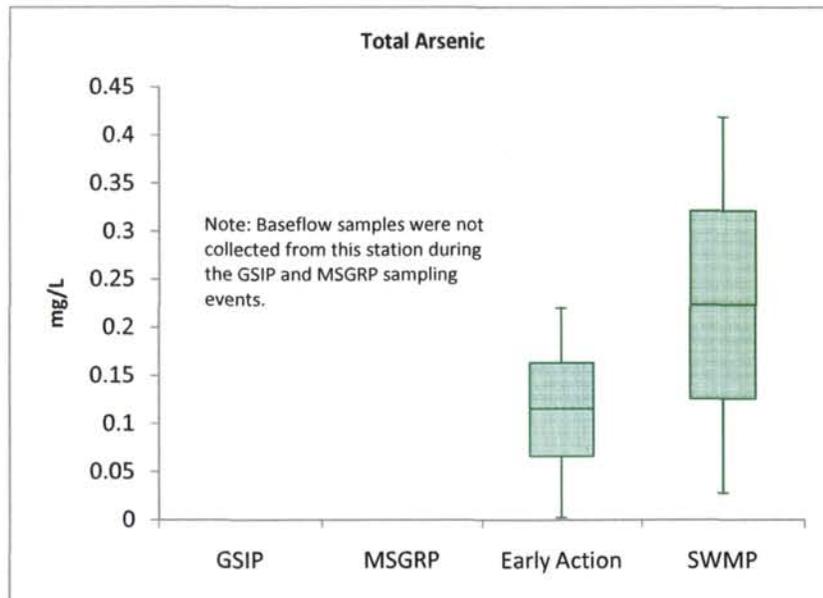
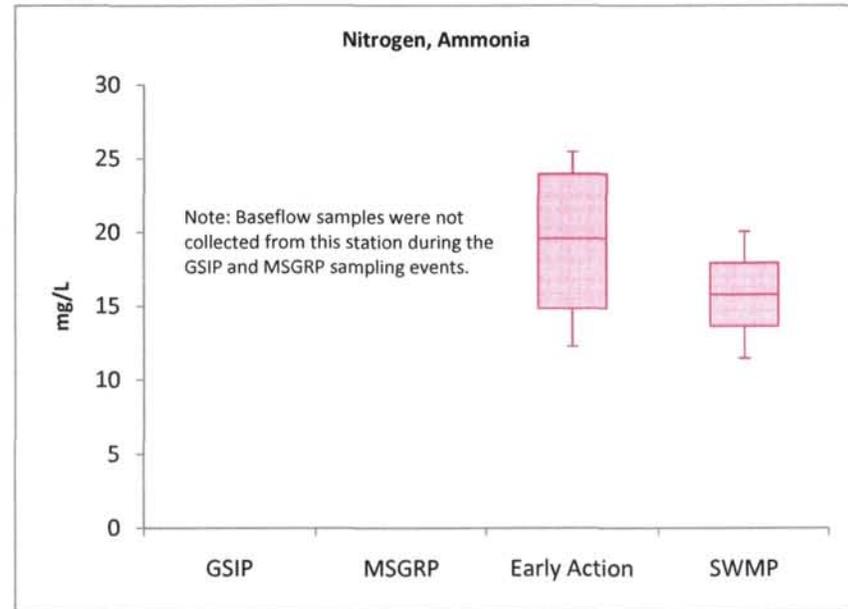
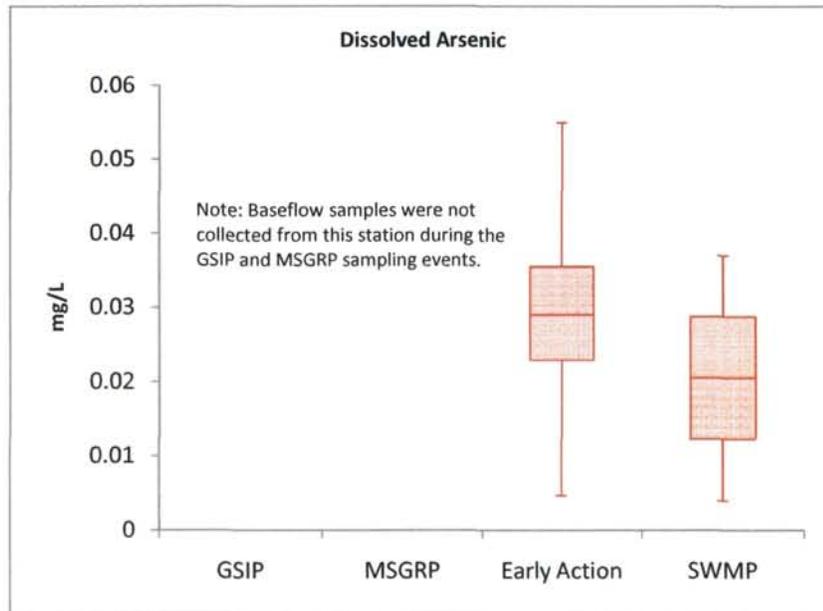
SW-01-TT



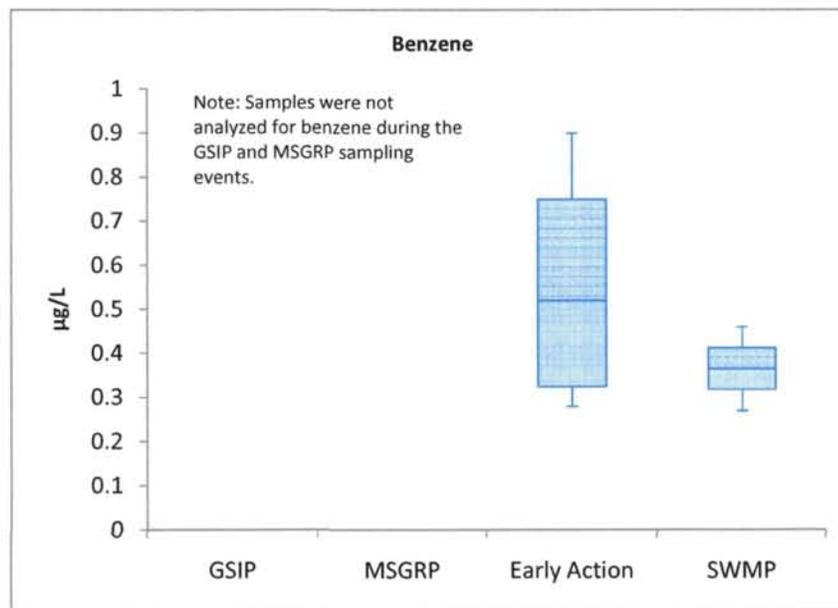
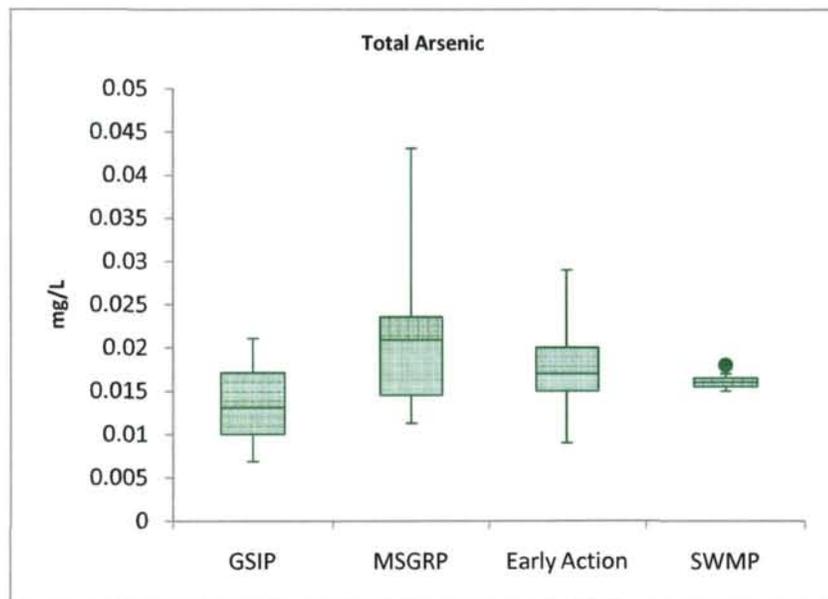
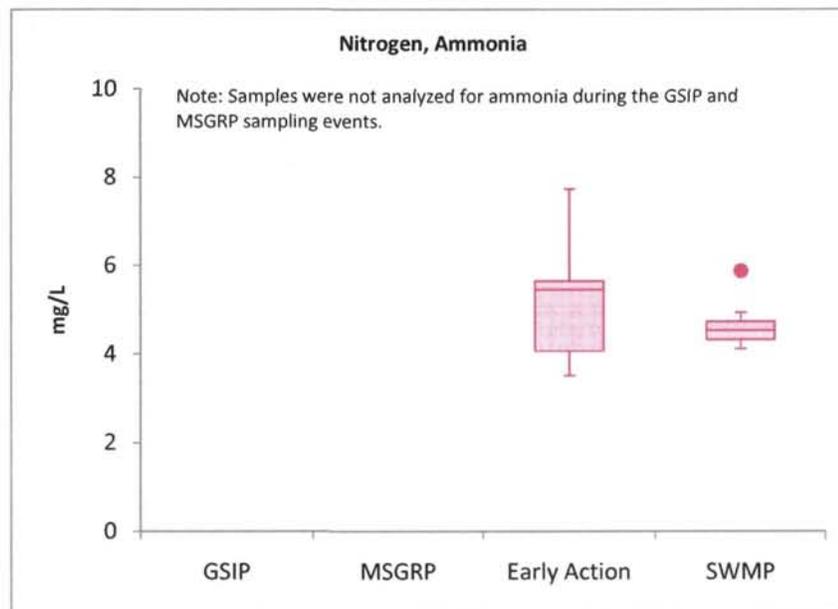
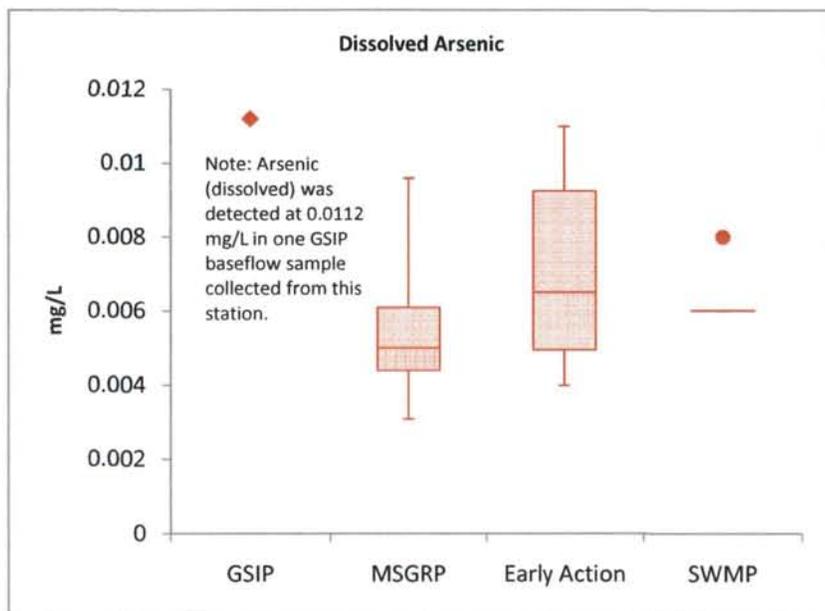
SW-2-IP



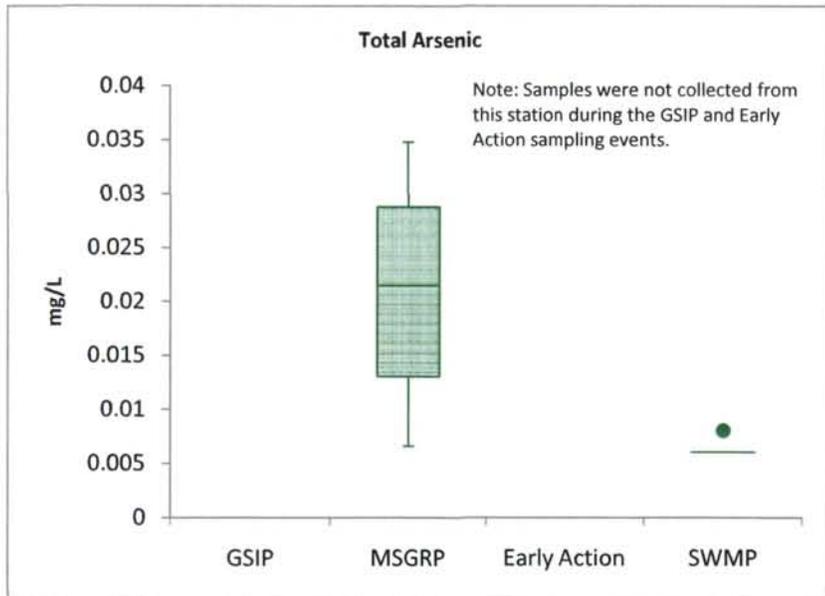
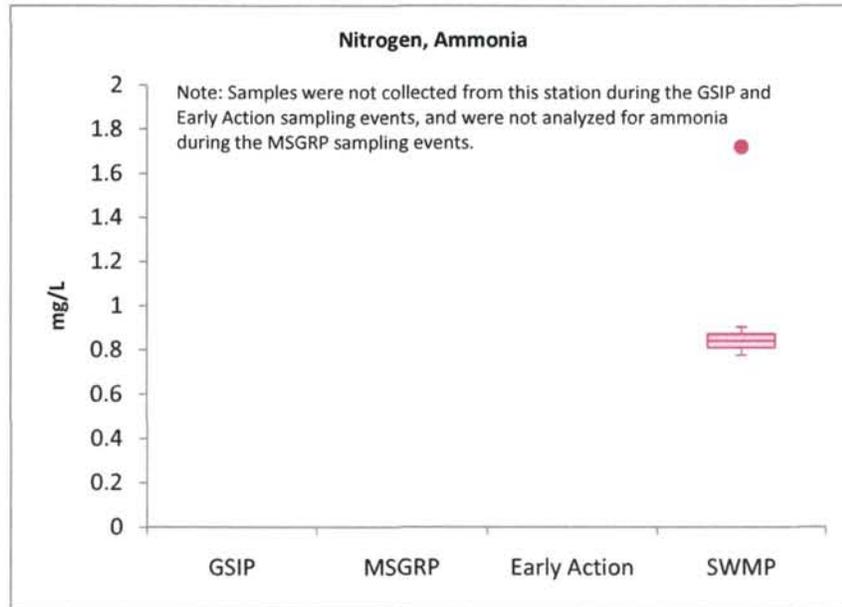
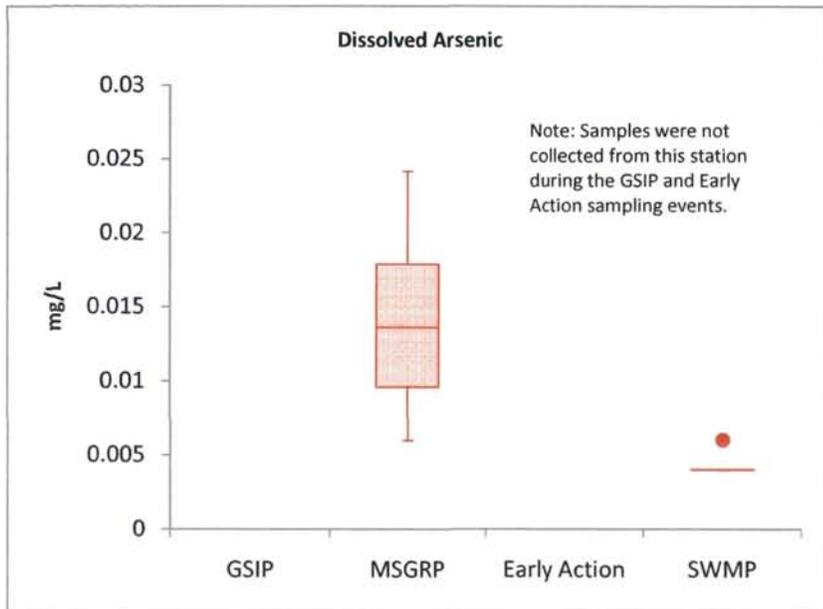
SW-3-IP



SW-02-TT (GSIP SW-4)

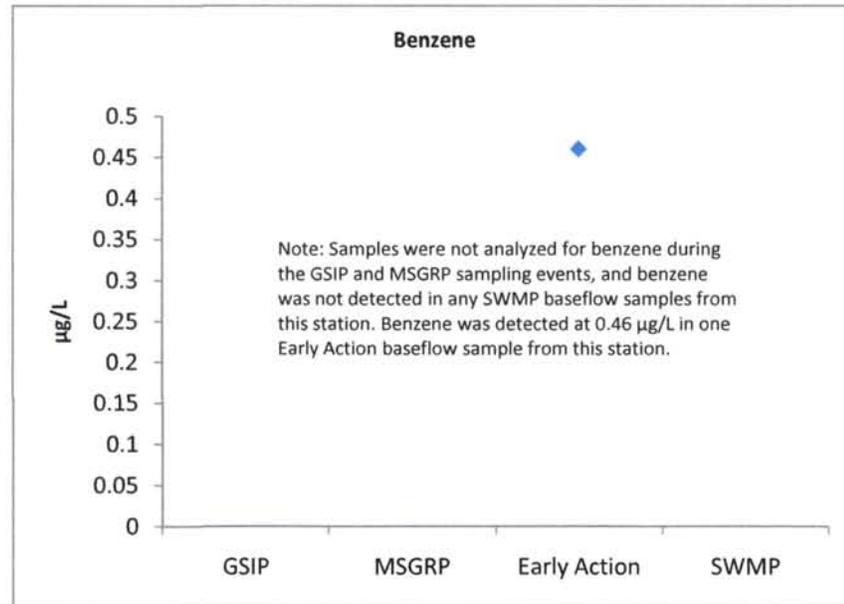
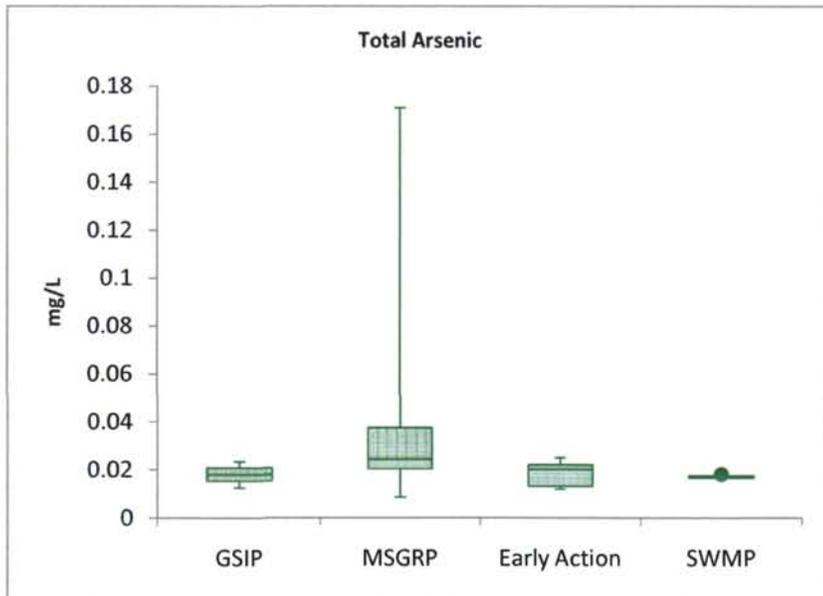
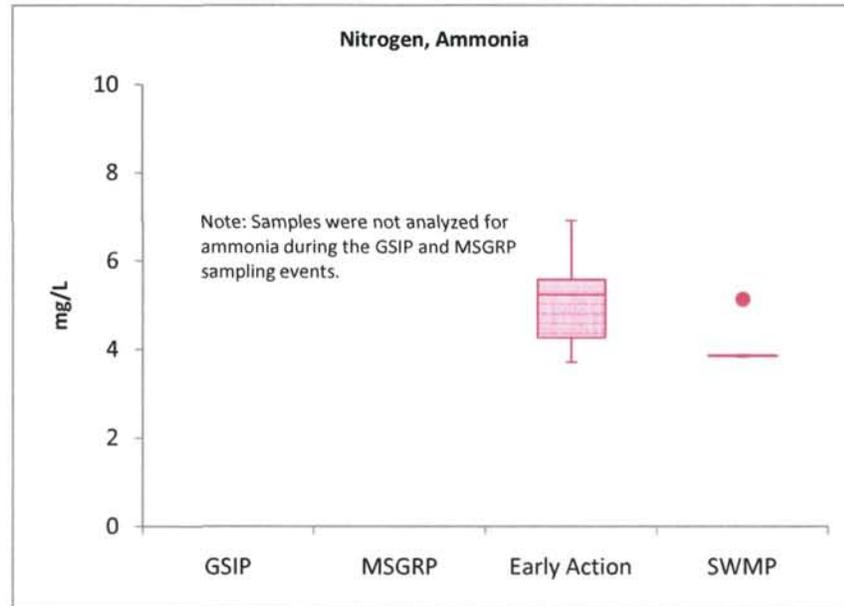
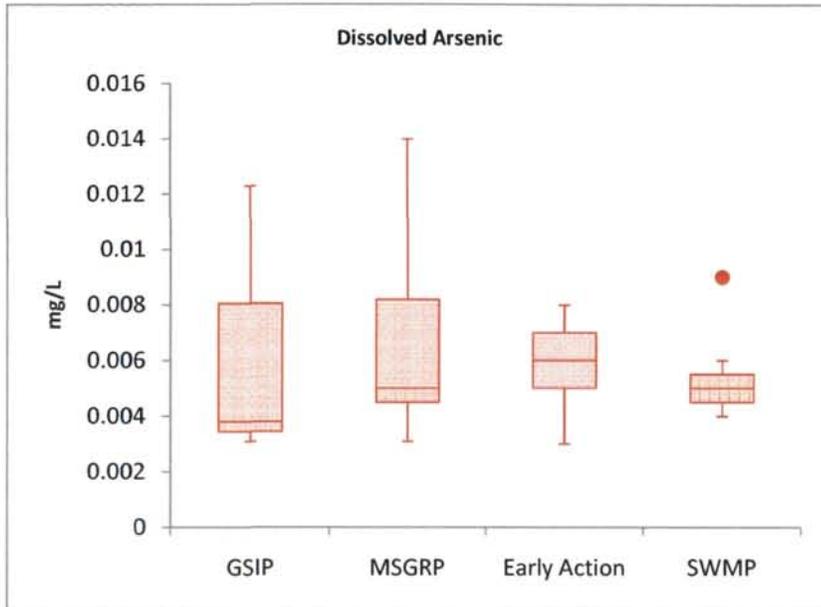


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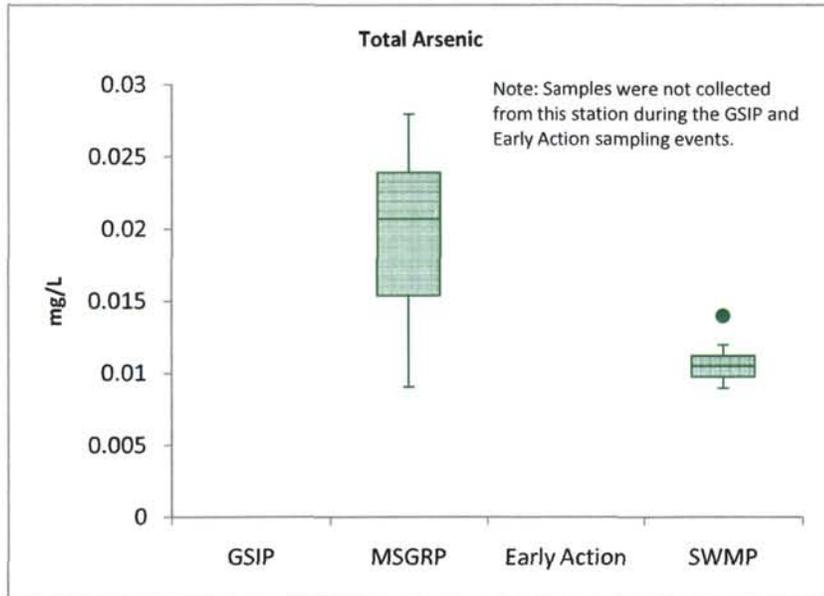
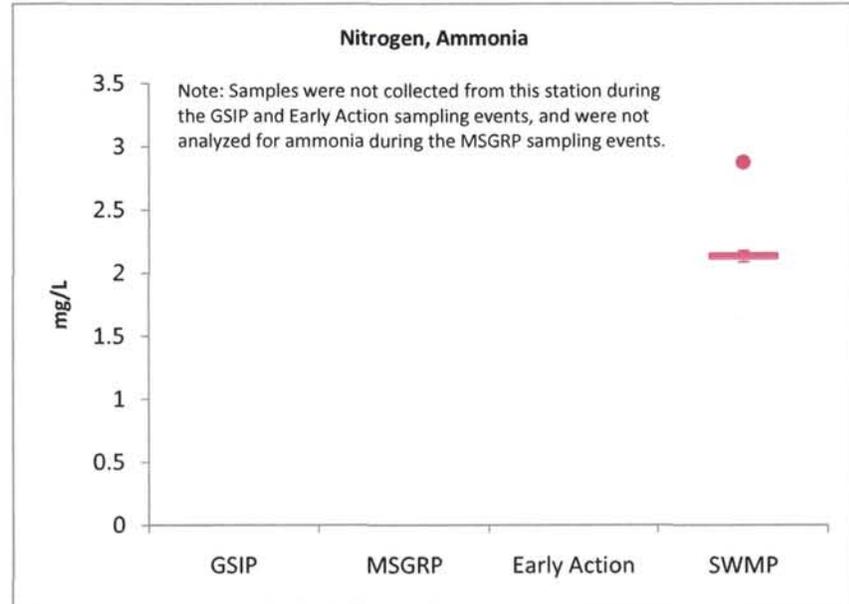
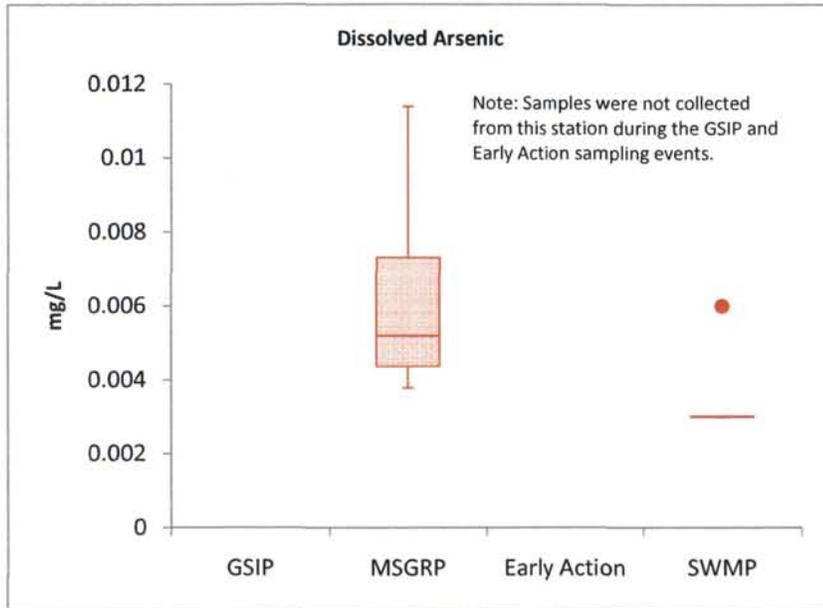


Note: Samples were not collected from this station during the GSIP and Early Action sampling events, and were not analyzed for benzene during the MSGRP sampling events. Benzene was not detected in any SWMP baseflow samples collected from this station.

SW-04-TT (GSIP SW-9)

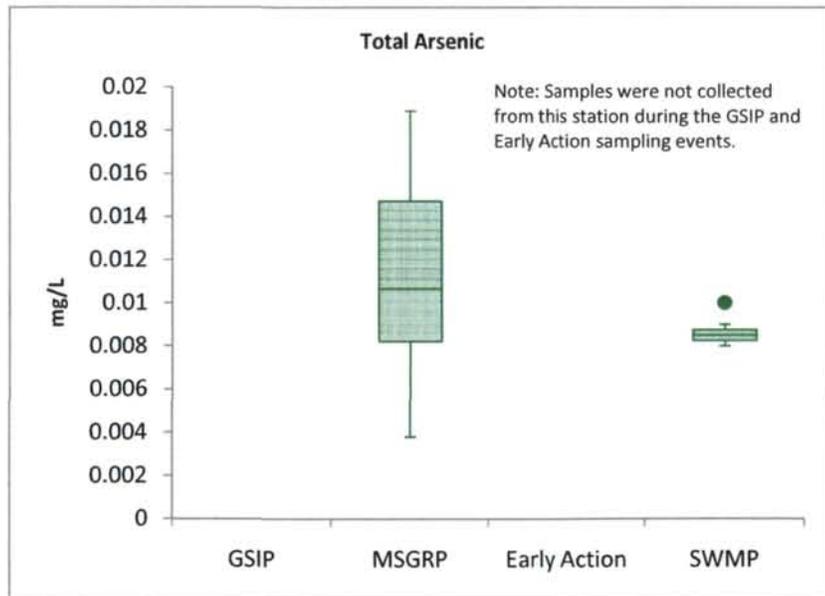
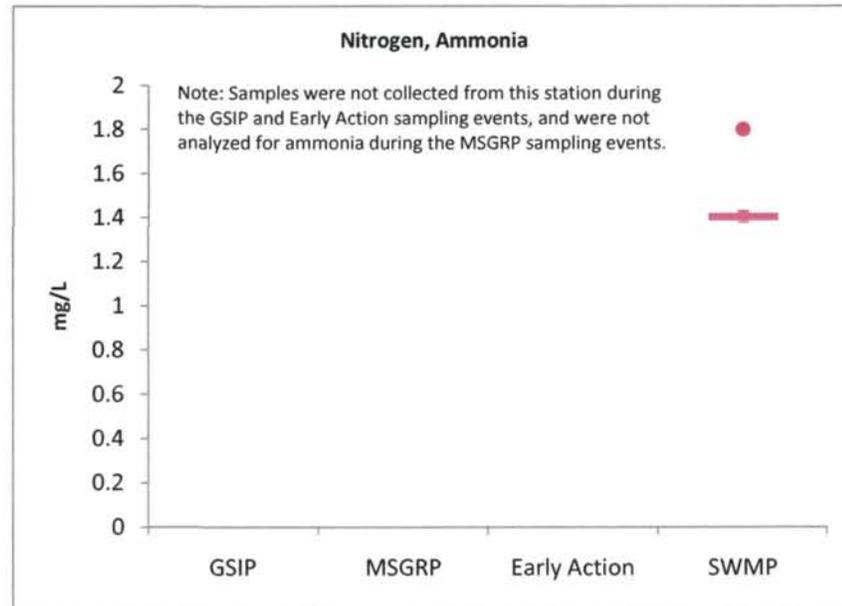
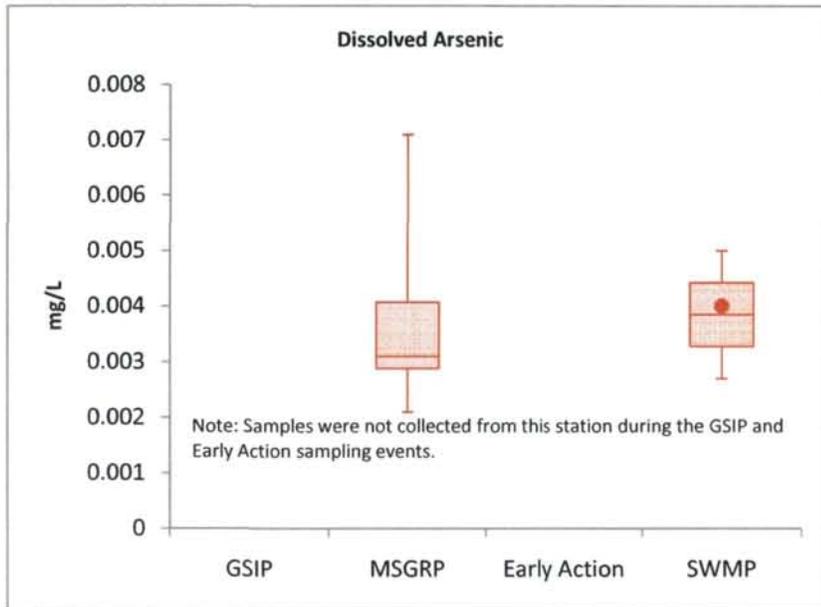


SW-05-TT



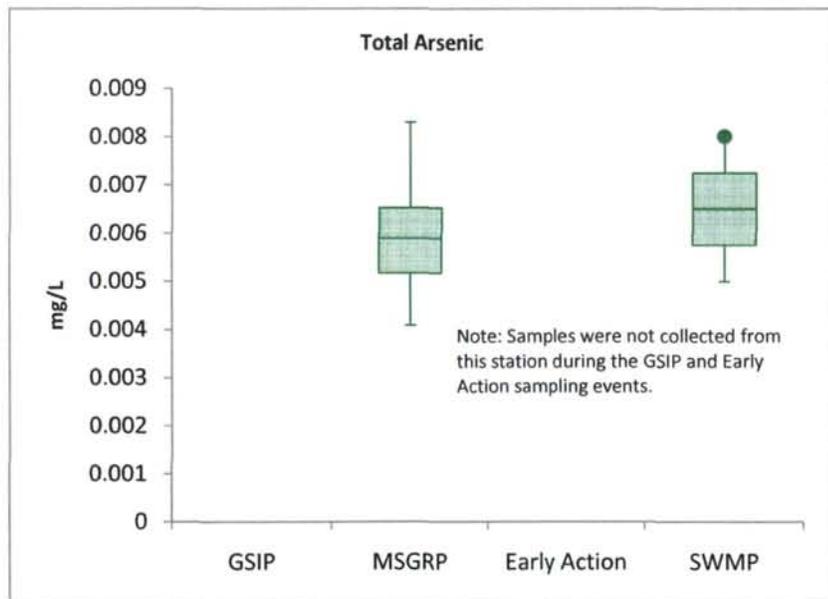
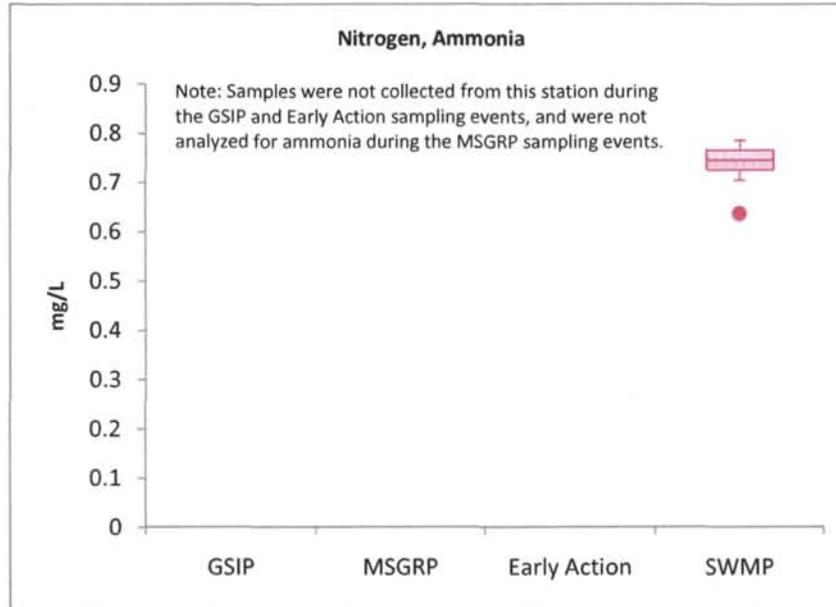
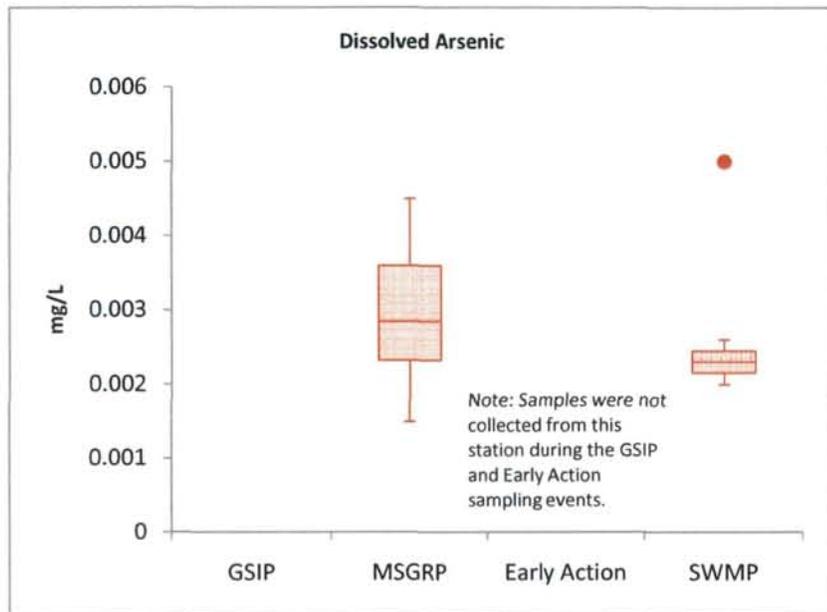
Note: Samples were not collected from this station during the GSIP and Early Action sampling events, and were not analyzed for benzene during the MSGRP sampling events. Benzene was not detected in any SWMP baseflow samples from this station.

SW-06-TT



Note: Samples were not collected from this station during the GSIP and Early Action sampling events, and were not analyzed for benzene during the MSGRP sampling events. Benzene was not detected in any SWMP baseflow samples from this station.

SW-07-TT



Note: Samples were not collected from this station during the GSIP and Early Action sampling events. Samples were not analyzed for benzene during the MSGRP sampling events. Benzene was not detected in any SWMP baseflow samples from this station.

SW-08-TT

