

**REMOVAL PROGRAM
TRIP REPORT
FOR THE SAMPLING ACTIVITIES
AT THE FISHERVILLE MILL SITE
GRAFTON, MASSACHUSETTS
22 JUNE 2004 AND 28 THROUGH 30 JUNE 2004**

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
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I. Narrative Chronology

Narrative Chronology

Introduction

The Fisherville Mill Site (the site) is located at 60 Main Street, Grafton, Worcester County, Massachusetts at 42° 10' 40" north latitude and 71° 41' 25" west longitude [see Appendix A - Site Location Map (Figure 1)]. The approximately 30-acre site formerly contained an abandoned industrial fabrication/textile mill that included a four-story brick-and-concrete mill building situated along the western bank of the Blackstone River. Private residences are located to the west of the site and on the opposite side of the Blackstone River to the east. A sluiceway, located on the western side of the site, is a section of the Blackstone Canal which flows through the turbine room portion of the former mill building, continues through a culvert beneath Main Street (Route 122A) and the remainder of the site, and empties into the Blackstone River. Debris piles are located along the northern and western sides of the mill building in the area that formerly contained dye ponds.

Site history and response activities conducted at the site up until March 2004 are summarized in a separate document prepared by START personnel, entitled *Removal Program Interim Report for the In Situ Chemical Oxidation Treatment at the Fisherville Mill Site Removal Action III South Grafton, Worcester County, Massachusetts, 6 May 2002 Through 25 March 2004*.

This trip report is a summary of sampling activities conducted during June 2004 to monitor the concentrations of permanganate and volatile organic compounds (VOCs) in groundwater in the vicinity of the in situ chemical oxidation (ISCO) treatment area.

Site Activities

On 22 June 2004, Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) Site Leader (SL) Dean Brammer, and START members Carol Riga, Andrew Hill, Karen O'Shaughnessy, and Bill Mahany mobilized to the site to conduct a comprehensive permanganate sampling round of all injection point (IP) wells and selected monitoring wells (MW) [see Appendix B - Sample Location Diagram (Figure 2)].

From 28 through 30 June 2004, START SL Brammer, START members Sean Dunn, John Burton, Jessica Burkhamer, Carol Riga, and Lauren Cook mobilized to the site to conduct groundwater sampling of IP wells that did not contain permanganate based on the 22 June sampling, and of selected monitoring wells in the vicinity of the injection grid and on the peninsula area downgradient of the injection grid. The groundwater samples were analyzed for volatile organic compounds (VOCs).

All field activities were conducted in accordance with the site health and safety plan (HASP) which was prepared as a separate document, entitled *Health and Safety Plan for the Fisherville Mill Site, Grafton, Worcester County, Massachusetts*. All sampling activities were conducted in accordance with the site Quality Assurance/Quality Control Plan (QA/QC Plan) and approved amendments prepared as a separate document, entitled *Removal Program Sampling Quality Assurance/Quality Control Plan for the In-Situ Chemical Oxidation at the Fisherville Mill Site, South Grafton, Worcester County, Massachusetts*.

Sampling Activities

On 22 June 2004, START personnel collected 118 groundwater samples from 107 installed IP wells (IP-1 through IP-123), six bedrock wells (IP-34B, IP-49B, IP-52B, IP-82B, MW-3T-B, and MW-101A), and five selected monitoring wells (MW-1D, MW-3T-B, MW-102, MW-205, and MW-207). Groundwater samples were collected using 0.5-inch-diameter disposable polyethylene bailers, and field screened for sodium permanganate concentrations using a spectrophotometer (see Appendix C - Summary of Permanganate Screening Results).

From 28 through 30 June 2004, START personnel collected 50 groundwater samples (including replicates) from selected IP wells and monitoring wells for VOC analysis. The IP wells selected for VOC sampling were those locations that did not contain permanganate during the on-site screening results of the 22 June 2004 comprehensive permanganate sampling. Bladder pumps and dedicated polyethylene tubing were used to sample monitoring wells MW-1D, MW-30D, MW-31D, MW-31R, and MW-100D. Peristaltic pumps and dedicated polyethylene tubing were used to sample all IP wells and monitoring wells MW-3T, MW-3T-B, MW-101A, MW-102, MW-205, and MW-207. All VOC sample vials were pre-preserved with hydrochloric acid (HCl). In addition, two surface water samples, SW-05 and replicate SW-10, were collected from the canal north of the Route 122A bridge/culvert. Sample descriptions are presented in Table 1.

Upon completion of sampling activities, START personnel individually bagged the samples and placed them into a cooler with ice. SL Brammer completed chain-of-custody documentation for the samples (see Appendix D - Chain-of-Custody Records). Upon completion of daily site activities, START personnel departed the site. START personnel delivered samples on 29 June and 30 June 2004 under chain-of-custody to the EPA New England Regional Laboratory (NERL), located in North Chelmsford, Massachusetts, for VOC analysis. Forty-two samples were analyzed using field screening methods, and 15 samples were analyzed as laboratory confirmation samples, including a rinsate and trip blanks (see Appendix E - Analytical Data).

Table 1
Groundwater VOC Sample Descriptions

Station No. and EPA Sample No.	Sample Type and Matrix	Sample Depth (Feet)	VOC Analysis Method	Comments
D15520 IP-1	Groundwater	34	Lab Confirmation	37 ppb TCE
D15521 IP-2	Groundwater	41	Field Screening	6.6 ppb TCE
D15522 IP-3	Groundwater	42	Field Screening	Non-detect for TCE
D15523 IP-4	Groundwater	42	Field Screening	1.2 ppb TCE
D15524 IP-5	Groundwater	41	Field Screening	16 ppb TCE

Table 1
Groundwater VOC Sample Descriptions (Continued)

Station No. and EPA Sample No.	Sample Type and Matrix	Sample Depth (Feet)	VOC Analysis Method	Comments
D15525 IP-6	Groundwater	27	Lab Confirmation	Non-detect for TCE
D15526 IP-7	Groundwater	32	Lab Confirmation	2,700 ppb TCE
D15527 IP-200	Groundwater	32	Lab Confirmation	Replicate of IP-7 2,800 ppb TCE
D15528 IP-8	Groundwater	39.5	Field Screening	Non-detect for TCE
D15529 IP-10	Groundwater	41.5	Field Screening	Non-detect for TCE
D15530 IP-12	Groundwater	28	Lab Confirmation	MS/MSD 180 ppb TCE
D15531 IP-16	Groundwater	27	Field Screening	8.6 ppb TCE
D15532 IP-17	Groundwater	28.5	Field Screening	120 ppb TCE
D15533 IP-18	Groundwater	30	Field Screening	300 ppb TCE
D15629 IP-33	Groundwater	27	Field Screening	1,400 ppb TCE
D15630 IP-52	Groundwater	35	Field Screening	12 ppb TCE
D15631 IP-53	Groundwater	37.5	Field Screening	Non-detect for TCE
D15632 IP-54	Groundwater	41	Field Screening	Non-detect for TCE
D15633 IP-55	Groundwater	43	Field Screening	3.6 ppb TCE
D15634 IP-57	Groundwater	29	Field Screening	1.3 ppb TCE
D15635 IP-59	Groundwater	45	Field Screening	20 ppb TCE
D15636 IP-60	Groundwater	41	Field Screening	4.8 ppb TCE
D15637 IP-61	Groundwater	30.5	Lab Confirmation	10 ppb TCE
D15638 IP-62	Groundwater	31	Field Screening	Non-detect for TCE

Table 1
Groundwater VOC Sample Descriptions (Continued)

Station No. and EPA Sample No.	Sample Type and Matrix	Sample Depth (Feet)	VOC Analysis Method	Comments
D15639 IP-63	Groundwater	27.5	Field Screening	700 ppb TCE
D15640 IP-65	Groundwater	36	Field Screening	130 ppb TCE
D15641 IP-67	Groundwater	25	Field Screening	50 ppb TCE
D15642 IP-68	Groundwater	32	Field Screening	160 ppb TCE
D15643 IP-69	Groundwater	29	Field Screening	1,200 ppb TCE
D15644 IP-70	Groundwater	30	Field Screening	260 ppb TCE
D15645 IP-79	Groundwater	29	Field Screening	630 ppb TCE
D15647 IP-116	Groundwater	35	Field Screening	130 ppb TCE
D15648 IP-117	Groundwater	17.5	Field Screening	94 ppb TCE
D15649 IP-118	Groundwater	29	Field Screening	33 ppb TCE
D15650 IP-119	Groundwater	17.5	Field Screening	2.0 ppb TCE
D15653 IP-122	Groundwater	21	Field Screening	110 ppb TCE
D15654 IP-123	Groundwater	35	Field Screening	4.3 ppb TCE
D15668 MW-205	Groundwater	22.5	Field Screening	63 ppb TCE
D15669 MW-207	Groundwater	13.5	Field Screening	450 ppb TCE
D15655 MW-1D	Groundwater	42	Field Screening	2.4 ppb TCE
D15656 MW-3T	Groundwater	37.5	Field Screening	20 ppb TCE
D15657 MW-3T-B	Groundwater	66	Field Screening	86 ppb TCE
D15658 MW-30D	Groundwater	38	Field Screening	140 ppb TCE

Table 1
Groundwater VOC Sample Descriptions (Concluded)

Station No. and EPA Sample No.	Sample Type and Matrix	Sample Depth (Feet)	VOC Analysis Method	Comments
D15659 MW-31D	Groundwater	51.5	Field Screening	MS/MSD 2.6 ppb TCE
D15660 MW-31R	Groundwater	83.5	Lab Confirmation	890 ppb TCE
D15661 IP-400	Groundwater	83.5	Lab Confirmation	Replicate of MW-31R 840 ppb TCE
D15662 MW-100D	Groundwater	36.5	Field Screening	Non-detect for TCE
D15663 MW-101A	Groundwater	45.5	Lab Confirmation	55,000 ppb TCE (well pumped dry)
D15664 IP-300	Groundwater	45.5	Lab Confirmation	Replicate of MW-101A 120,000 ppb TCE
D15665 MW-102	Groundwater	40	Field Screening	210 ppb TCE
D15673 RB-01	Aqueous	NA	Lab Confirmation	Bladder Pump Rinsate Blank Non-detect for TCE
D15674 TB-01	Aqueous	NA	Lab Confirmation	Trip Blank Non-detect for TCE
D15675 TB-02	Aqueous	NA	Lab Confirmation	Trip Blank Non-detect for TCE
D15676 TB-03	Aqueous	NA	Lab Confirmation	Trip Blank Non-detect for TCE
D15677 TB-04	Aqueous	NA	Lab Confirmation	Trip Blank Non-detect for TCE
D15671 SW-05	Surface Water	NA	Field Screening	11 ppb TCE
D15672 SW-10	Surface Water	NA	Field Screening	Replicate of SW-05 9.3 ppb TCE

VOC = Volatile Organic Compound.
 Lab = Laboratory.
 MS/MSD = Matrix Spike/Matrix Spike Duplicate.
 ppb = Parts per billion.
 TCE = Trichloroethylene.
 NA = Not applicable.
 No. = Number.

The following proposed locations were not sampled due to the pumping of permanganate from the well during purging: IP-24; IP-28; IP-85; IP-12; and MW-104. During well purging on 29 June 2004, IP-122 was pumped dry and did not recover. On 29 June 2004, MW-101A was also pumped

dry during well purging and recovered very slowly. On 30 June 2004, a groundwater sample was collected from IP-122 using a check valve and dedicated tubing. On 30 June 2004, a groundwater sample was collected from MW-101A, and significant drawdown was noted during the collection of the sample and replicate (IP-300), possibly contributing to the variation in the analytical results between sample and replicate.

Discussion of Analytical Results

Analytical results of the June 2004 VOC sampling indicated that concentrations of trichloroethylene (TCE) in three of the injection points (IP-7, IP-33, and IP-69) had increased to greater than 1 part per million (ppm). In addition, the concentration of TCE in bedrock monitoring well MW-101A continues to significantly exceed 1 ppm. Analytical results indicated that MW-101A contained TCE at 55 ppm during the June 2004 sampling round. During the previous sampling round conducted on 15 and 16 March 2004, the TCE concentrations in all injection points were less than 1 ppm, and the TCE concentration in MW-101A was 9.4 ppm.

Past sampling analytical results for the three injection points (IP-7, IP-33, and IP-69), with TCE concentrations greater than 1 ppm in June 2004, have indicated the following:

- All three IP wells had concentrations less than 1 ppm during the baseline monitoring round conducted prior to injection of permanganate.
- All three IP wells were located along a north-south axis through the center of the treatment area, in a zone of apparent coarse sand and gravel deposits and high permeability.
- The injection points surrounding IP-7, IP-33, and IP-69 did not exhibit the same "rebound" effect. TCE concentrations in the surrounding injection points did not show significant increases.
- During previous sampling events, permanganate was observed to "flush" out of these injection points rapidly after each injection, particularly IP-7.
- During the June 2004 sampling round, a brown precipitate was observed in IP-33. There was no purple, indicating that the permanganate had been consumed.

Insufficient data are available to determine the cause of the rebound in the three injection points during the June 2004 sampling. Additional monitoring of the injection grid area is required to ascertain whether the increases in TCE concentrations in the three injection points represent a trend, or if they were just a seasonal "blip" in the data. However, potential explanations for the increase in TCE in the three IP wells include the following:

- A continuing source of TCE could exist in the overburden soils above the depth of the treatment zone in the treatment area. Vertical profiling conducted in the northwest corner of the treatment area during September 2003 did not indicate that there was a sufficient mass of TCE in the upper overburden to cause the rebound. However, it is possible that there are isolated pockets of contamination that the vertical profiling missed.

- A continuing source of TCE could exist in the bank of the canal. During wetter seasons when the canal is full, TCE could be "pushed" into the treatment area from the bank of the canal by steeper hydraulic gradients. Again, vertical profiling conducted around the outside of the northwest corner of the treatment area indicated that there was not a significant source of contamination in the vicinity of the northwest corner of the treatment area.
- A VOC dense non-aqueous phase liquid (DNAPL) may exist in some bedrock fractures that are feeding water into the overburden in the vicinity of IP-7, IP-33, and IP-69. However, this does not seem likely since IP-7, IP-33, and IP-69 all contained TCE concentrations less than 1 ppm during the baseline monitoring.
- Recirculation of water in the treatment area conducted during October 2003 and December 2003 may have mobilized TCE contamination, as well as permanganate. TCE may have been "pushed" out of low permeability soils, where it was relatively immobile, into the higher permeability soils, allowing it to migrate through higher permeability zones.

Based on field observations, current groundwater sampling results, and the installation of the temporary dam, it is unlikely that VOC contamination could migrate into the South Grafton Water District (SGWD) Well No. 3 in the near future. Imminent danger to SGWD Well No.3 appears unlikely for the following reasons:

- Analytical results of the June 2004 VOC sampling of the downgradient peninsula wells indicates that groundwater quality conditions have been improving on the peninsula, with the possible exception of MW-31R, a bedrock well. However, MW-31R does not appear to be representative of conditions in the overburden groundwater.
- The temporary dam continues to be effective in directing the plume in a more easterly direction, away from the SGWD wells.
- If a source of TCE continues to exist in the treatment area, there is a barrier of permanganate that remains along the southern edge of the treatment area that would oxidize the TCE as it migrated in a southerly direction toward Main Street.
- Additional injection points installed east of the treatment area, and the sampling conducted during the installation of these points, indicated that a significant source of contamination does not exist to the east of the treatment area. Therefore, it is unlikely that a migration pathway around the eastern side of the treatment area exists where contamination could skirt around the eastern side of the permanganate barrier at the southern end of the treatment area and cross over to Main Street.
- The hydraulic gradients in the treatment area are very flat, and the seepage velocity of groundwater at the site is relatively slow. Therefore, it would take several months for contamination in the treatment area to migrate over to the peninsula.

Although there appears to be no imminent risk to SGWD Well No. 3, the long term impacts to this well are not clear. New residential housing developments are being constructed in Grafton, and SGWD has been requested to provide the water supply for them. Additional demand will also be

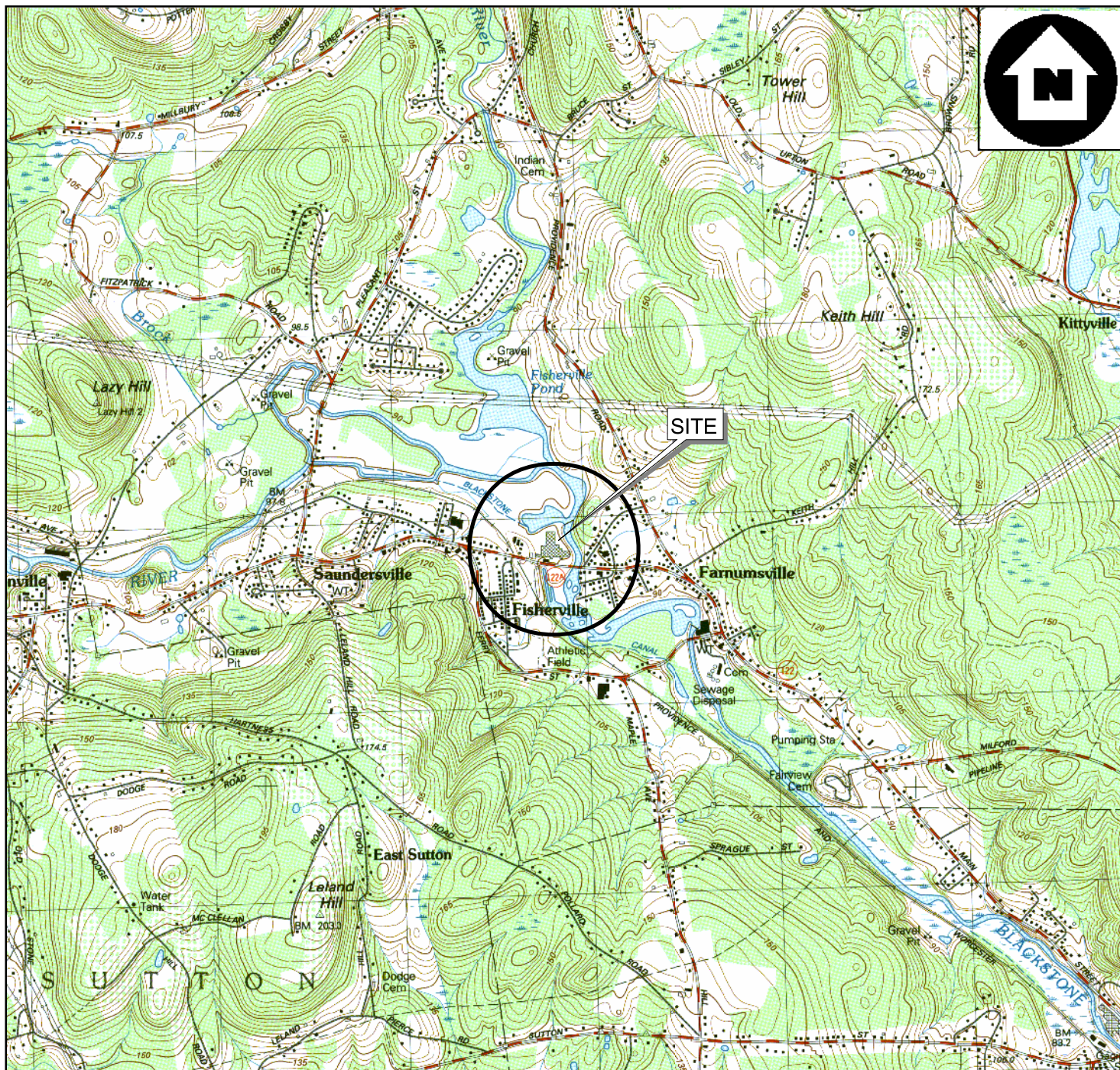
imposed by the redevelopment of the Fisherville Mill property. However, SGWD Well No. 3 was pumped continuously from April through December 2003 with no apparent negative impacts on water quality or significant increases in VOC concentrations in nearby monitoring wells.

The next scheduled permanganate and VOC sampling round is scheduled for October 2004. Site groundwater conditions and the associated risk to SGWD Well No. 3 will be re-evaluated at the conclusion of this sampling.

II. Appendices

Appendix A

Site Location Map (Figure 1)

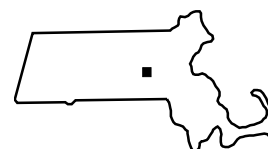


BASE MAP IS A PORTION OF THE FOLLOWING 7.5 X 15' U.S.G.S. QUADRANGLE(S):
GRAFTON, MASSACHUSETTS. 1969 PHOTOREVISED 1979.

1 0 1 Miles

5000 0 5000 Feet

1 0 1 Kilometers



QUADRANGLE LOCATION

SITE LOCATION MAP

FISHERVILLE MILL
60-62 MAIN STREET (ROUTE 122A)
GRAFTON, MASSACHUSETTS

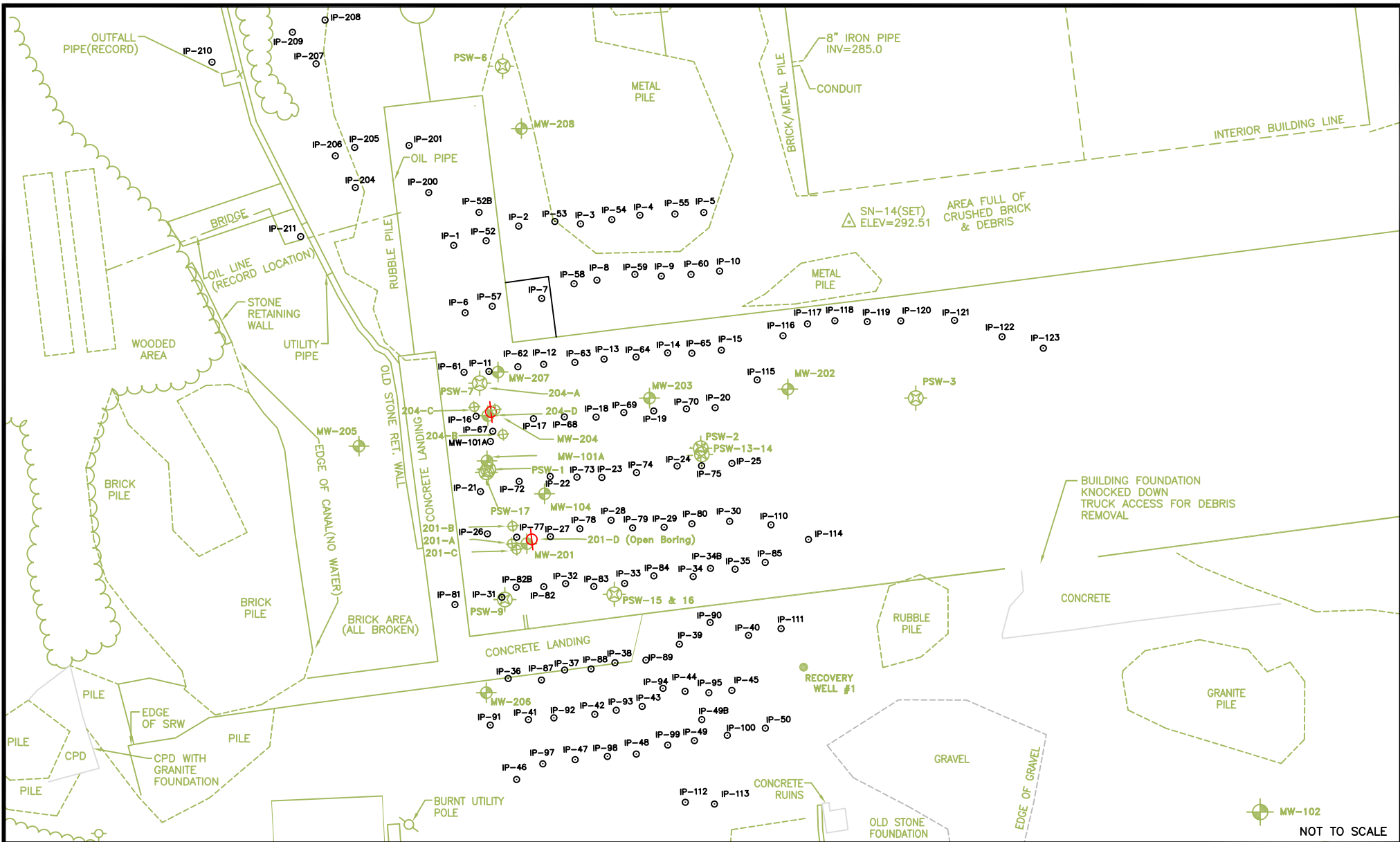


REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE:
04-05-0009	D. Brammer	04/04/2004
FILE NAME:		FIGURE 1
E:\ARC_APRS\START2\FISHERVILLEFIG1.APR		

Appendix B

Sample Location Diagram (Figure 2)



NOT TO SCALE

LEGEND

- INJECTION POINT (IP) WELL
- ⊕ START-INSTALLED MONITORING WELL
- ⊗ PINE & SWALLOW-INSTALLED MONITORING WELL
- ⊕ START-INSTALLED CLEAN WATER INJECTION BORING

SAMPLE LOCATION DIAGRAM FISHERVILLE MILL GRAFTON, MA

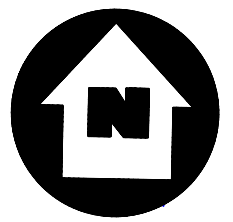


REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD # 04-05-0009	DRAWN BY: D. Brammer	DATE 05/03/2004
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FIGURE 2



Appendix C

Summary of Fisherville Mill Permanganate Screening Results for 22 June 2004

Fisherville Mill Permanganate Screening Results for 22 June 2004

Sample No.	Approximate Sample Depth (feet bgs)	Permanganate Concentration (ppm)	Sample Appearance/ Comments
IP-1	39	3	Clear
IP-2	46	24	Clear
IP-3	47	185	Brown
IP-4	47	12	Clear
IP-5	46	4	Clear
IP-6	32	8	Clear
IP-7	37	870	Brown with precipitates
IP-8	44.5	11	Clear
IP-9	48	135	Pink with precipitates
IP-10	46.5	35	Brown with precipitates
IP-11	39.5	148	Light purple
IP-12	33	3	Clear
IP-13	35	97	Dark pink
IP-14	35	8,977	Dark purple
IP-15	39	7,332	Purple
IP-16	10*	1	Clear
IP-17	33.5	277	Brown with precipitates
IP-18	35	9	Clear
IP-19	34	85	Pink
IP-20	39	1,058	Purple
IP-21	36	2,608	Purple
IP-22	37	21,619	Dark purple
IP-23	41	147,262	Dark purple
IP-24	35	646	Brown with precipitates
IP-25	39.5	3,407	Purple
IP-26	34	9,071	Dark purple
IP-27	37.5	20,209	Dark purple
IP-28	37.5	14	Clear
IP-29	35	254	Dark pink
IP-30	41.5	47,469	Dark purple

Fisherville Mill Permanganate Screening Results for 22 June 2004 (Continued)

Sample No.	Approximate Sample Depth (feet bgs)	Permanganate Concentration (ppm)	Sample Appearance/ Comments
IP-31	36	1,246	Dark pink
IP-32	38.5	157,445	Dark purple
IP-33	32	2,335	Brown with precipitates
IP-34	39.5	260	Purple
IP-34B	63	1,833	Dark purple
IP-35	39.5	32	Light pink
IP-36	47	16,293	Dark purple
IP-37	47	1,598	Dark purple
IP-38	47.5	20,053	Dark purple
IP-39	42.5	2,021	Purple
IP-40	45	2,773	Purple
IP-41	43	21,619	Dark purple
IP-42	42.5	2,491	Purple
IP-43	41	152	Light pink
IP-44	41	10,340	Dark purple
IP-45	38.5	209	Dark pink
IP-46	41	4,230	Purple
IP-47	41	3,525	Dark purple
IP-48	38	1,880	Purple
IP-49	41	439	Light purple
IP-49B	62	24,439	Dark purple
IP-50	43.5	3,431	Dark purple
IP-52	40	10	Clear
IP-52B	54	5,828	Dark purple
IP-53	42.5	6	Clear
IP-54	46	330	Clear to yellowish
IP-55	48	122	Brown with precipitates
IP-57	34	12	Clear
IP-58	45	74	Pink with precipitates
IP-59	50	103	Brown with precipitates
IP-60	46	43	Brown with precipitates

Fisherville Mill Permanganate Screening Results for 22 June 2004 (Continued)

Sample No.	Approximate Sample Depth (feet bgs)	Permanganate Concentration (ppm)	Sample Appearance/ Comments
IP-61	35.5	223	Brown with precipitates
IP-62	36	9	Clear
IP-63	32.5	10	Clear
IP-64	37.5	2,021	Dark purple
IP-65	41	41	Brown
IP-67	30	15	Clear to yellowish
IP-68	37	6	Clear
IP-69	34	107	Brown
IP-70	35	24	Clear
IP-72	36	7,990	Purple
IP-73	40.5	93,997	Dark purple
IP-74	39	12,314	Dark purple
IP-75	39	18,486	Dark purple
IP-77	34	2,068	Dark purple
IP-78	38.5	59,218	Dark purple
IP-79	34	6	Clear
IP-80	38.5	411	Light purple
IP-81	36	239,692	Dark purple
IP-82	39	13,285	Dark purple
IP-82B	53.5	5,404	Purple
IP-83	39	6,674	Dark purple
IP-84	34	157	Pink with precipitates
IP-85	41	5	Clear
IP-87	45	4,841	Dark purple
IP-88	45	25,849	Dark purple
IP-89	46.5	9,776	Dark purple
IP-90	42.5	564	Purple
IP-91	38	1,340	Purple
IP-92	42	5,123	Purple
IP-93	45	2,679	Dark purple
IP-94	40	109	Purple

Fisherville Mill Permanganate Screening Results for 22 June 2004 (Concluded)

Sample No.	Approximate Sample Depth (feet bgs)	Permanganate Concentration (ppm)	Sample Appearance/ Comments
IP-95	43.5	1,435	Purple
IP-97	42.5	45,119	Dark purple
IP-98	40	1,128	Purple
IP-99	42.5	186	Purple
IP-100	41.5	2,632	Dark purple
IP-110	42	10,246	Purple
IP-111	44	1,551	Purple
IP-112	37	192,694	Dark purple
IP-113	39.5	26,319	Dark purple
IP-114	35	159	Brown/pink
IP-115	40.5	179	Pink
IP-116	40	28	Clear
IP-117	25	26	Clear with precipitates
IP-118	34	19	Clear
IP-119	25	27	Clear
IP-120	38	13	Clear
IP-121	--	--	Riser bent; no sample collected.
IP-122	26	30	Clear
IP-123	40	17	Clear
MW-1D	49.5	32	Clear
MW-3T-B	71	4	Clear
MW-101A	50.5	213	Brown with precipitates
MW-102	45	0	Clear
MW-205	25	1	Clear
MW-207	17	275	Brown with precipitates

- * = The polyvinyl chloride riser of IP-16 is bent below the ground surface. The bailer groundwater sample was collected at approximately 10 feet below ground surface. The total depth of the well is 32 feet below ground surface.
- ppm = Parts per million.
- bgs = Below ground surface.

Appendix D

Chain-of-Custody Records



WESTON START
Generic Chain of Custody

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>
	Relinquished By	(Date / Time)	Received By
	<i>Carol Kiza</i>	<i>6/29/04</i>	<i>Carol Kiza</i>
	2	<i>7:20 am</i>	<i>7:27 am</i>
	3		
4			
			For Lab Use Only
			Lab Contract No: _____
			Unit Price: _____
			Transfer To: _____
			Lab Contract No: _____
			Unit Price: _____

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15520	Ground Water	L/G	VOA Lab Co (21)	1 (HCL), 10 (HCL), 11 (HCL), 12 (HCL), 2 (HCL), 3 (HCL), 4 (HCL), 5 (HCL), 6 (HCL), 7 (HCL), 8 (HCL), 9 (HCL) (12)	IP-1	S: 6/28/2004 14:10	
D15521	Ground Water	L/G	Field VOA (21)	13 (HCL), 14 (HCL), 15 (HCL), 16 (HCL) (4)	IP-2	S: 6/28/2004 14:45	
D15522	Ground Water	L/G	Field VOA (21)	17 (HCL), 18 (HCL), 19 (HCL), 20 (HCL) (4)	IP-3	S: 6/28/2004 15:10	
D15655	Ground Water	L/G	Field VOA (21)	177 (HCL), 178 (HCL), 179 (HCL), 180 (HCL) (4)	MW-1D	S: 6/28/2004 11:39	
D15656	Ground Water	L/G	Field VOA (21)	181 (HCL), 182 (HCL), 183 (HCL), 184 (HCL) (4)	MW-3T	S: 6/28/2004 14:35	
D15657	Ground Water	L/G	Field VOA (21)	185 (HCL), 186 (HCL), 187 (HCL), 188 (HCL) (4)	MW-3T-B	S: 6/28/2004 14:40	
D15658	Ground Water	L/G	Field VOA (21)	189 (HCL), 190 (HCL), 191 (HCL), 192 (HCL) (4)	MW-30D	S: 6/28/2004 11:50	
D15659	Ground Water	L/G	Field VOA (21)	193 (HCL), 194 (HCL), 195 (HCL), 196 (HCL), 197 (HCL), 198 (HCL), 199 (HCL), 200 (HCL), 201 (HCL), 202 (HCL), 203 (HCL), 204 (HCL) (12)	MW-31D	S: 6/28/2004 14:06	

Shipment for Case Complete? <input type="checkbox"/>	Sample(s) to be used for laboratory QC: D15520, D15659	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt: _____	Chain of Custody Seal Number: _____
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>
Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation				

TR Number: **1-430444211-062804-0007**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

LABORATORY COPY



WESTON START
Generic Chain of Custody

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>Carol Kija</i>	<i>6/29/04</i>	<i>[Signature]</i>		<i>7:27AM</i>
	2 <i>7:20</i>				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
D15660	Ground Water	L/G	VOA Lab Co (21)	205 (HCL), 206 (HCL), 207 (HCL), 208 (HCL) (4)	MW-31R	S: 6/28/2004	14:50	
D15661	Ground Water	L/G	VOA Lab Co (21)	209 (HCL), 210 (HCL), 211 (HCL), 212 (HCL) (4)	IP-400	S: 6/28/2004	14:50	
D15662	Ground Water	L/G	Field VOA (21)	213 (HCL), 214 (HCL), 215 (HCL), 216 (HCL) (4)	MW-100D	S: 6/28/2004	15:30	
D15665	Ground Water	L/G	Field VOA (21)	225 (HCL), 226 (HCL), 227 (HCL), 228 (HCL) (4)	MW-102	S: 6/28/2004	16:10	
D15673	Field QC	L/G	VOA Lab Co (21)	265 (HCL), 266 (HCL), 267 (HCL), 268 (HCL) (4)	RB-01	S: 6/28/2004	12:05	
D15674	Field QC	L/G	VOA Lab Co (21)	269 (HCL), 270 (HCL), 271 (HCL), 272 (HCL) (4)	TB-01	S: 6/28/2004	6:45	

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: D15520, D15659	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>

TR Number: **1-430444211-062804-0007**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

LABORATORY COPY



WESTON START
Generic Chain of Custody

PN: 04060043

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>Jeanine Binkham</i>	6/29/04 16:50			
	2				
	3				
4			<i>[Signature]</i> 6/29/04 16:50		

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15523	Ground Water	L/G	Field VOA (21)	21 (HCL), 22 (HCL), 23 (HCL), 24 (HCL) (4)	IP-4 ✓	S: 6/29/2004 10:10	
D15524	Ground Water	L/G	Field VOA (21)	25 (HCL), 26 (HCL), 27 (HCL), 28 (HCL) (4)	IP-5 ✓	S: 6/29/2004 10:15	
D15525	Ground Water	L/G	VOA Lab Co (21)	29 (HCL), 30 (HCL), 31 (HCL), 32 (HCL) (4)	IP-6 ✓	S: 6/29/2004 11:33	
D15526	Ground Water	L/G	VOA Lab Co (21)	33 (HCL), 34 (HCL), 35 (HCL), 36 (HCL) (4)	IP-7 ✓	S: 6/29/2004 11:45	
D15527	Ground Water	L/G	VOA Lab Co (21)	37 (HCL), 38 (HCL), 39 (HCL), 40 (HCL) (4)	IP-200 ✓	S: 6/29/2004 11:45	
D15528	Ground Water	L/G	Field VOA (21)	41 (HCL), 42 (HCL), 43 (HCL), 44 (HCL) (4)	IP-8 ✓	S: 6/29/2004 10:30	
D15529	Ground Water	L/G	Field VOA (21)	45 (HCL), 46 (HCL), 47 (HCL), 48 (HCL) (4)	IP-10 ✓	S: 6/29/2004 9:55	
D15530	Ground Water	L/G	VOA Lab Co (21)	300 (HCL), 301 (HCL), 302 (HCL), 303 (HCL), 304 (HCL), 305 (HCL), 306 (HCL), 307 (HCL), 308 (HCL), 309 (HCL), 310 (HCL), 311 (HCL) (12)	IP-12 ✓	S: 6/29/2004 12:05	
D15531	Ground Water	L/G	Field VOA (21)	53 (HCL), 54 (HCL), 55 (HCL), 56 (HCL) (4)	IP-16 ✓	S: 6/29/2004 12:34	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: D15530	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>
Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation					

TR Number: 1-430444211-062904-0002

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Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

LABORATORY COPY



WESTON START
Generic Chain of Custody

PN: 04060043

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	<i>[Signature]</i>	6/29/04 1650	<i>[Signature]</i>		
	3				
	4		<i>[Signature]</i> 6/29/04 1650		

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15532	Ground Water	L/G	Field VOA (21)	57 (HCL), 58 (HCL), 59 (HCL), 60 (HCL) (4)	IP-17 ✓	S: 6/29/2004 12:07	
D15533	Ground Water	L/G	Field VOA (21)	61 (HCL), 62 (HCL), 63 (HCL), 64 (HCL) (4)	IP-18 ✓	S: 6/29/2004 13:37	
D15629	Ground Water	L/G	Field VOA (21)	73 (HCL), 74 (HCL), 75 (HCL), 76 (HCL) (4)	IP-33 ✓	S: 6/29/2004 14:50	
D15630	Ground Water	L/G	Field VOA (21)	77 (HCL), 78 (HCL), 79 (HCL), 80 (HCL) (4)	IP-52 ✓	S: 6/29/2004 11:40	
D15631	Ground Water	L/G	Field VOA (21)	81 (HCL), 82 (HCL), 83 (HCL), 84 (HCL) (4)	IP-53 ✓	S: 6/29/2004 10:18	
D15632	Ground Water	L/G	Field VOA (21)	85 (HCL), 86 (HCL), 87 (HCL), 88 (HCL) (4)	IP-54 ✓	S: 6/29/2004 10:34	
D15633	Ground Water	L/G	Field VOA (21)	89 (HCL), 90 (HCL), 91 (HCL), 92 (HCL) (4)	IP-55 ✓	S: 6/29/2004 10:30	
D15634	Ground Water	L/G	Field VOA (21)	93 (HCL), 94 (HCL), 95 (HCL), 96 (HCL) (4)	IP-57 ✓	S: 6/29/2004 11:55	
D15635	Ground Water	L/G	Field VOA (21)	100 (HCL), 97 (HCL), 98 (HCL), 99 (HCL) (4)	IP-59 ✓	S: 6/29/2004 10:15	
D15636	Ground Water	L/G	Field VOA (21)	101 (HCL), 102 (HCL), 103 (HCL), 104 (HCL) (4)	IP-60 ✓	S: 6/29/2004 10:55	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: D15530	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>

TR Number: 1-430444211-062904-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

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WESTON START
Generic Chain of Custody

PN: 04060044

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>
	Relinquished By	(Date / Time)	Received By
	1 <i>Janis Benton</i>	6/29/04 1650	
	2		
	3		
4			<i>[Signature]</i> 6/29/04 1650
For Lab Use Only			
Lab Contract No: _____			
Unit Price: _____			
Transfer To: _____			
Lab Contract No: _____			
Unit Price: _____			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15637	Ground Water	L/G	VOA Lab Co (21)	105 (HCL), 106 (HCL), 107 (HCL), 108 (HCL) (4)	IP-61 ✓	S: 6/29/2004 11:50	
D15638	Ground Water	L/G	Field VOA (21)	109 (HCL), 110 (HCL), 111 (HCL), 112 (HCL) (4)	IP-62 ✓	S: 6/29/2004 11:20	
D15639	Ground Water	L/G	Field VOA (21)	113 (HCL), 114 (HCL), 115 (HCL), 116 (HCL) (4)	IP-63 ✓	S: 6/29/2004 11:15	
D15640	Ground Water	L/G	Field VOA (21)	117 (HCL), 118 (HCL), 119 (HCL), 120 (HCL) (4)	IP-65 ✓	S: 6/29/2004 10:53	
D15641	Ground Water	L/G	Field VOA (21)	121 (HCL), 122 (HCL), 123 (HCL), 124 (HCL) (4)	IP-67 ✓	S: 6/29/2004 12:21	
D15642	Ground Water	L/G	Field VOA (21)	125 (HCL), 126 (HCL), 127 (HCL), 128 (HCL) (4)	IP-68 ✓	S: 6/29/2004 12:26	
D15643	Ground Water	L/G	Field VOA (21)	129 (HCL), 130 (HCL), 131 (HCL), 132 (HCL) (4)	IP-69 ✓	S: 6/29/2004 12:48	
D15644	Ground Water	L/G	Field VOA (21)	133 (HCL), 134 (HCL), 135 (HCL), 136 (HCL) (4)	IP-70 ✓	S: 6/29/2004 13:10	
D15645	Ground Water	L/G	Field VOA (21)	137 (HCL), 138 (HCL), 139 (HCL), 140 (HCL) (4)	IP-79 ✓	S: 6/29/2004 14:45	
D15647	Ground Water	L/G	Field VOA (21)	145 (HCL), 146 (HCL), 147 (HCL), 148 (HCL) (4)	IP-116 ✓	S: 6/29/2004 11:40	

Shipment for Case Complete? <input type="checkbox"/>	Sample(s) to be used for laboratory QC: D15530	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>
Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation				

TR Number: 1-430444211-062904-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

LABORATORY COPY



WESTON START
Generic Chain of Custody

PW: 04060044

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/29/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1 <i>[Signature]</i>	6/29/04 16:50			
	2 <i>[Signature]</i>				
	3				
	4		<i>[Signature]</i> 6/29/04 16:50		

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15648	Ground Water	L/G	Field VOA (21)	149 (HCL), 150 (HCL), 151 (HCL), 152 (HCL) (4)	IP-117 ✓	S: 6/29/2004 12:33	
D15649	Ground Water	L/G	Field VOA (21)	153 (HCL), 154 (HCL), 155 (HCL), 156 (HCL) (4)	IP-118 ✓	S: 6/29/2004 13:18	
D15650	Ground Water	L/G	Field VOA (21)	157 (HCL), 158 (HCL), 159 (HCL), 160 (HCL) (4)	IP-119 ✓	S: 6/29/2004 13:35	
D15654	Ground Water	L/G	Field VOA (21)	173 (HCL), 174 (HCL), 175 (HCL), 176 (HCL) (4)	IP-123 ✓	S: 6/29/2004 14:15	
D15668	Ground Water	L/G	Field VOA (21)	237 (HCL), 238 (HCL), 239 (HCL), 240 (HCL) (4)	MW-205 ✓	S: 6/29/2004 14:13	
D15669	Ground Water	L/G	Field VOA (21)	241 (HCL), 242 (HCL), 243 (HCL), 244 (HCL) (4)	MW-207 ✓	S: 6/22/2004 13:11	
D15675	Field QC	L/G	VOA Lab Co (21)	273 (HCL), 274 (HCL), 275 (HCL), 276 (HCL) (4)	TB-02 ✓	S: 6/29/2004 6:45	
D16576	Field QC	L/G	VOA Lab Co (21)	277 (HCL), 278 (HCL), 279 (HCL), 280 (HCL) (4)	TB-03 ✓	S: 6/29/2004 15:00	

Shipment for Case Complete? <input type="checkbox"/>	Sample(s) to be used for laboratory QC: D15530	Additional Sampler Signature(s): <i>[Signatures]</i>	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key: Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>

TR Number: 1-430444211-062904-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

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WESTON START
Generic Chain of Custody

PN: 04060045

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/30/2004
Carrier Name: Hand Delivered
Airbill:
Shipped to: U.S. EPA Regional
Laboratory
11 Technology Drive
North Chelmsford MA
01863
(888) 372-7341

Chain of Custody Record

Relinquished By (Date / Time)

D. J. B. 6/30/04 10:52

2

3

4

Sampler
Signature:

Received By (Date / Time)

[Signature] 6/30/04 10:52

For Lab Use Only

Lab Contract No:

Unit Price:

Transfer To:

Lab Contract No:

Unit Price:

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	FOR LAB USE ONLY Sample Condition On Receipt
D15653	Ground Water	L/G	Field VOA (21)	169 (HCL), 170 (HCL), 171 (HCL), 172 (HCL) (4)	IP-122	S: 6/30/2004 9:20	
D15663	Ground Water	L/G	VOA Lab Co (21)	217 (HCL), 218 (HCL), 219 (HCL), 220 (HCL) (4)	MW-101A	S: 6/30/2004 8:35	
D15664	Ground Water	L/G	VOA Lab Co (21)	221 (HCL), 222 (HCL), 223 (HCL), 224 (HCL) (4)	IP-300	S: 6/30/2004 8:35	
D15671	Surface Water	L/G	Field VOA (21)	257 (HCL), 258 (HCL), 259 (HCL), 260 (HCL) (4)	SW-05	S: 6/30/2004 8:45	
D15672	Surface Water	L/G	Field VOA (21)	261 (HCL), 262 (HCL), 263 (HCL), 264 (HCL) (4)	SW-10	S: 6/30/2004 8:45	
D15677	Field QC	L/G	VOA Lab Co (21)	281 (HCL), 282 (HCL), 283 (HCL), 284 (HCL) (4)	TB-04	S: 6/30/2004 6:45	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [Signature]	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input type="checkbox"/>	Shipment Iced? <input type="checkbox"/>
Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation				

TR Number: 1-430444211-063004-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

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WESTON START
Generic Chain of Custody

Reference Case

Client No:

SDG No:

L

Date Shipped: 6/30/2004 Carrier Name: Hand Delivered Airbill: Shipped to: U.S. EPA Regional Laboratory 11 Technology Drive North Chelmsford MA 01863 (888) 372-7341	Chain of Custody Record		Sampler Signature:	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1				
	2				
	3				
4					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		FOR LAB USE ONLY Sample Condition On Receipt
D15653	Ground Water	L/G	Field VOA (21)	169 (HCL), 170 (HCL), 171 (HCL), 172 (HCL) (4)	IP-122	S: 6/30/2004	9:20	
D15663	Ground Water	L/G	VOA Lab Co (21)	217 (HCL), 218 (HCL), 219 (HCL), 220 (HCL) (4)	MW-101A	S: 6/30/2004	8:35	
D15664	Ground Water	L/G	VOA Lab Co (21)	221 (HCL), 222 (HCL), 223 (HCL), 224 (HCL) (4)	IP-300	S: 6/30/2004	8:35	
D15671	Surface Water	L/G	Field VOA (21)	257 (HCL), 258 (HCL), 259 (HCL), 260 (HCL) (4)	SW-05	S: 6/30/2004	8:45	
D15672	Surface Water	L/G	Field VOA (21)	261 (HCL), 262 (HCL), 263 (HCL), 264 (HCL) (4)	SW-10	S: 6/30/2004	8:45	
D15677	Field QC	L/G	VOA Lab Co (21)	281 (HCL), 282 (HCL), 283 (HCL), 284 (HCL) (4)	TB-04	S: 6/30/2004	6:45	

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:	
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High		Type/Designate: Composite = C, Grab = G		Custody Seal Intact? <input type="checkbox"/>
Field VOA = Field VOA Method, VOA Lab Co = VOA Lab Confirmation					
Shipment Iced? <input type="checkbox"/>					

TR Number: 1-430444211-063004-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send results to: OSC Janis Tsang EPA Region I Emergency Planning and Response Branch (617) 918-1231

Appendix E

Analytical Data