

**United States Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, MA 02114-2023**

September 18, 2006

To: J. Kilborn, EPA
H. Inglis, EPA
R. Howell, EPA (w/o attachments)
D. Moore, USACE
K.C. Mitkevicius, USACE
S. Steenstrup, MA DEP (2 copies)
R. Bell, Esquire, MA DEP
S. Peterson, CT DEP
A. Silber, GE
J. Novotny, GE
J.R. Bieke, Esquire, Shea & Gardner
S. Messur, BBL
D. Young, MA EOE
K. Munney, US Fish and Wildlife
D. Mauro, META Environmental, Inc.
R. Nasman, The Berkshire Gas Company
Mayor Ruberto, City of Pittsfield
Commissioner of Public Works and Utilities, City of Pittsfield
Public Information Repositories

RE: August Monthly Report
1.5 Mile Reach Removal Action
GE-Pittsfield/Housatonic River Site

Enclosed please find the August 2006 Monthly Report for the 1.5 Mile Reach Removal Action. In accordance with the Consent Decree for the GE-Pittsfield/Housatonic River Site, the United States Environmental Protection Agency (EPA) is performing the 1.5 Mile Reach Removal Action, with General Electric funding a portion of the project through a cost sharing formula.

The EPA has entered into an agreement with the United States Army Corps of Engineers (USACE) to assist in the design and construction of the Removal Action. The USACE subsequently awarded a design-construct contract to Weston Solutions, Inc. (Weston). Weston, with several subcontractors, will be performing the design and construction activities for the 1.5 Mile Reach Removal Action.

If you have any questions, please contact me at (413) 236-0969.

Sincerely,



Dean Tagliaferro
1.5 Mile Reach Removal Action Project Manager

1. Overview

During August 2006, the Environmental Protection Agency (EPA), the United States Army Corps of Engineers (USACE), the USACE's contractor, Weston Solutions, Inc., and Weston's subcontractors continued remediation and restoration activities on the 1.5 Mile Reach Removal Action. The work included the completion of restoration activities on Parcel I9-4-201 (installation of topsoil and fencing) and Parcels I7-21-4 and I7-21-6 (repairs to concrete sidewalk). Final restoration activities of the Fred Garner Park continued this included re-grading the park area, building of the soccer field, removal of the access roads and staging areas, paving and installation of guardrail. Also, the removal of the access roads on Parcel I8-23-6 was initiated. In addition, transfer of non-TSCA materials from the stockpile management areas to approved off-site facilities was performed.

2. Chronological description of tasks performed

Refer to Figure 1 (2 maps) for an orientation of the 1.5 Mile Reach Removal Action.

By the end of July, final restoration activities at the Fred Garner Park were initiated, the installation and grading of the sand base over the soccer field was completed and the installation and grading of the 6-inch layer of topsoil over the soccer field was initiated. During the month of August the final restoration activities at the Fred Garner Park continued. First, the installation and rough grading of the topsoil over the soccer field was completed. Next, fine grading using a laser guided fine grader achieving the final grades of ¼-inch from the design elevations was completed. Then, the soccer field was hydro-seeded.

Also, activities associated with grading of areas outside of the soccer field were completed. First, the survey contractor staked out the grades for the grading activities to ensure that the grading meets the design elevations. Next, the removal of the 2-inch layer of sod in the high areas within the park where deeper cuts were anticipated was completed. The removed sod material was transported to Area 64 stockpile management areas and was slated for offsite disposal. The high areas were then cut and the cut material was used to fill in the lower areas within the park. Low lying areas that required additional fill were filled with common fill material which was previously removed from the Water Treatment System (WTS) pad, stockpiled at the Fred Garner Park, chemically tested and approved for unrestricted re-use as clean fill. A four-inch layer of topsoil was placed over the common fill layer in all the low lying areas. While the grading activities were in progress, activities associated with the installation of the two 15-inch HDPE drain pipe were completed. The drainage pipes were designed to provide drainage from the low lying area within the park to the river. The excavation of the trench for the drainage pipes was performed carefully to ensure that the existing brick sanitary sewer structure located beneath the location of the drain pipes was not damaged.

The installation of the Articulated Concrete Block (ACB) canoe access ramp at Fred Garner Park was completed. First, the riprap was removed from the area of the riverbank where the ramp was to be located. Then to meet the appropriate grades excess riverbank soil material was excavated from the riverbank. The excavated riverbank material was transported to Area 64 stockpile management areas for offsite disposal. Activities associated with installation and compaction of common fill was completed. Geotextile fabric was then placed in the areas of the ramp and the ACB was installed. Sand was placed on top of the ACB to seal in the gaps between the blocks. Concrete grout was installed around the parameter of the canoe launch to seal in the ACB to the riverbed and riverbank riprap as an erosion control measure. Additional 18-inch and 9-inch riprap was placed along the sides of the ramp to create a smooth transition between the canoe launch and the riverbank.

The removal of the temporary access road and the staging area within the Fred Garner Park was completed. First, the dense grade/airport mix material was removed from the roads and the staging areas carefully so that the geotextile layer underneath the roads and the staging areas and the native soil, was not disturbed. Then, the road base material was removed, including the remainder of the dense grade and geotextile. The road base material may also include some native floodplain and riverbank soils that were inevitably scraped off during the removal process. Both the dense grade/airport mix material and the road base material were transported to Area 64 stockpile management areas.

As part of the Fred Garner Park final restoration activities, the former park entrance road and parking lot will be expanded and paved. Once the dense grade material was removed from the temporary road and staging area/former parking lot, it was observed that the native materials beneath the temporary road/staging area were unsuitable to be used as a sub-base for paving. Therefore, the unsuitable material was removed and transported to Area 64 stockpile management area for offsite disposal. Next, a minimum 4-inch layer of dense grade material was placed and compacted to obtain an appropriate base for paving of the road and the parking lot. Then, the paving of the base course was completed and the installation of the guardrail was initiated. Also, concrete curbs were installed at the entrance to the park. The installation of the paving final surface course, striping of the parking lot and installation of the parking lot bumpers are scheduled to be completed in September 2006.

The parking lot was graded to direct the water runoff towards the river; therefore a riprap swale was built on the riverbank upstream of the canoe launch to aid in the parking lot drainage.

Also, installation of topsoil between the park entrance road and the river was completed.

Activities associated with the removal of the access roads on Parcel I8-23-6 were initiated. The removed material was transported to Area 64 stockpile management areas.

Other restoration activities during the month of July included the repair of the concrete sidewalk on Parcels I7-21-4 and I7-21-6.

Final restoration activities on Parcel I9-4-201 were performed. The installation of the topsoil, seed and mulch around the newly installed pavement and placement of additional 9-inch riprap

on the riverbank swales to raise the elevation of the swales to the new pavement was completed. Also, the installation of permanent chain link fencing was completed.

Application of fertilizers and algacide to the newly hydro-seeded areas on Parcels I6-1-66 and I6-1-67 was performed.

In addition, the site security fencing on Parcel I6-1-67 was removed and minor adjustments to the temporary fence around the Fred Garner Park were completed.

Activities associated with flagging out plant locations for the fall planting activities were initiated. The summer vegetation inspections along 1.5 mile removal reach were completed.

The survey contractor completed the as-built surveys on Parcels I9-24-1, I8-24-5, I9-4-23, I6-1-66, I6-1-67 and I6-1-68.

Other miscellaneous activities performed during the month of August included the decontamination of the bin blocks and the jersey barriers. Maintenance and or the removal of the silt fencing throughout the 1.5 mile remediation area continued. The offsite transportation of the sheetpile and the jersey barriers continued.

The invasive species control and the tree maintenance within the 1.5 mile remediation reaches continued. The removal of the morning glory vines and the re-setting of the tree protective cages were performed.

In June 2006, dense grade materials generated during the removal of access roads within 1.5 mile removal reach and slated for re-use as clean fill on the GE facility and PEDDA were consolidated into three stockpiles in Area 64A south, Area 64A north and Area 64B south. EPA informed GE and PEDDA that the dense grade material analytical data met the standards for re-use as clean fill and EPA offered the material for re-use on GE and PEDDA properties.

The transfer of some of the dense grade materials from Area 64A north stockpile management area to the GE Hill 78 OPCA was performed on June 01, 2006. The remainder of the dense grade material from Area 64A and 64B south stockpile management areas were transported to PEDDA on August 21, 2006 and August 22, 2006.

The non-TSCA materials from the Area 64D, Area 64C, Area 64B and Area 64E stockpile management areas were transported to the Waste Management of New Hampshire-TREE, Rochester, N.H. from August 02, 2006 and August 31, 2006. (See Table 1 for a summary of material transported to the Waste Management of New Hampshire-TREE, Rochester, N.H. during the month of August 2006).

During the month of August 2006, three concrete characterization samples were collected on the jersey barriers and the bin blocks. Four post-removal off-site disposal characterization samples were collected from the sub-grade material (stockpiled in Area 64C south, Area 64B north, Area 64E and Area 64D north). In addition, two post-removal characterization samples were collected on the dense grade and common fill material removed from the access roads and staging areas (stockpiled in Area 64D north and Area 64B north).

Also, geotechnical samples were collected on the dense grade and common fill material removed from the access roads and staging areas in case these materials are subsequently classified for unrestricted re-use as clean fill. The results of the geotechnical testing are not included in the monthly report but are contained in other submittals and are available upon request.

The analytical results for the dense grade material exceeded the MCP S-1 standards for both PCB and non-PCB constituents. Therefore, this material was designated for offsite disposal. The analytical data for the common fill met the MCP S-1 standards and therefore this material is acceptable for unrestricted re-use at the site.

Stockpile management area activities continued throughout the month of August.

3. Sampling/test results received

Table 2 contains the results for the three concrete characterization samples collected on the jersey barriers and the bin blocks. Results for four post-removal off-site disposal characterization samples results collected from the sub-grade material (stockpiled in Area 64C south, Area 64B north, Area 64E and Area 64D north) are presented in Table 3. Data associated with the post removal dense grade and common fill materials is summarized in Table 4.

4. Diagrams associated with the tasks performed

Figure 1 (2 maps) displays the locations of the 1.5 Mile Reach Removal Action Phases including the layout of all excavation cells, access road locations and temporary fence line location.

5. Reports received and prepared

No reports were prepared or received during the month of August 2006.

6. Photo documentation of activities performed

See attached photos.

7. Brief description of work to be performed in September 2006

- Continue the restoration activities in Fred Garner Park.
- Continue the removal of the remaining access roads and restoration of Parcel I8-23-6.
- Initiate fall planting activities on the west riverbank in Phase 3C and in Fred Garner Park.
- Continue to transfer non-TSCA materials from the stockpile management areas to approved off-site facilities.
- Continue stockpile management activities at Area 64.
- Continue with miscellaneous demobilization activities such as decontamination and demobilization of jersey barriers and concrete bin blocks.

8. ATTACHMENTS TO THIS REPORT

Table 1. Quantity of non-TSCA Material Transferred to Waste Management of New Hampshire-TREE, Rochester, N.H. during the month of August

Table 2. Jersey Barriers and Bin Block Concrete Characterization Analytical Results

Table 3. Post-Removal Access Sub-Grade Debris Stockpile Characterization Analytical Results

Table 4. Post-Removal Dense Grade and Common Fill Material Analytical Results

Figure 1- 1.5 Mile Removal Action Site Map (2 maps)

Photodocumentation

**Table 1 - Quantity of non-TSCA Material Transported to Waste Management of New Hampshire-
TREE, Rochester, N.H.
During the Month of August
August 2006 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in tons)

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/02/06	1593WMNH	sub-grade Area 64D south	32.56
08/02/06	1594WMNH	sub-grade Area 64D south	33.16
08/02/06	1595WMNH	sub-grade Area 64D south	31.30
08/02/06	1596WMNH	sub-grade Area 64D south	32.44
08/02/06	1597WMNH	sub-grade Area 64D south	34.07
08/02/06	1598WMNH	sub-grade Area 64D south	31.27
08/02/06	1599WMNH	sub-grade Area 64D south	30.99
08/02/06	1600WMNH	sub-grade Area 64D south	32.19
08/02/06	1601WMNH	sub-grade Area 64D south	32.24
08/02/06	1602WMNH	sub-grade Area 64D south	30.91
08/02/06	1603WMNH	sub-grade Area 64D south	31.21
08/02/06	1604WMNH	sub-grade Area 64D south	32.80
08/02/06	1605WMNH	sub-grade Area 64D south	31.03
08/02/06	1606WMNH	sub-grade Area 64D south	30.17
08/02/06	1607WMNH	sub-grade Area 64D south	32.61
08/03/06	1608WMNH	sub-grade Area 64D south	31.36
08/03/06	1609WMNH	sub-grade Area 64D south	30.48
08/03/06	1610WMNH	sub-grade Area 64D south	30.44
08/03/06	1611WMNH	sub-grade Area 64D south	32.83
08/03/06	1612WMNH	sub-grade Area 64D south	31.51
08/03/06	1613WMNH	sub-grade Area 64D south	32.20
08/03/06	1614WMNH	sub-grade Area 64D south	33.02
08/03/06	1615WMNH	sub-grade Area 64D south	28.37
08/03/06	1616WMNH	sub-grade Area 64D south	28.25
08/03/06	1617WMNH	sub-grade Area 64D south	30.47
08/03/06	1618WMNH	sub-grade Area 64D south	33.63
08/03/06	1619WMNH	sub-grade Area 64C south	31.59
08/03/06	1620WMNH	sub-grade Area 64C south	30.19
08/03/06	1621WMNH	sub-grade Area 64C south	31.23
08/03/06	1622WMNH	sub-grade Area 64C south	31.29
08/07/06	1623WMNH	sub-grade Area 64C south	30.95
08/07/06	1624WMNH	sub-grade Area 64C south	31.88
08/07/06	1625WMNH	sub-grade Area 64C south	31.01
08/07/06	1626WMNH	sub-grade Area 64C south	29.23
08/07/06	1627WMNH	sub-grade Area 64C south	34.32
08/07/06	1628WMNH	sub-grade Area 64C south	32.51

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/07/06	1629WMNH	sub-grade Area 64C south	31.95
08/07/06	1630WMNH	sub-grade Area 64C south	31.02
08/07/06	1631WMNH	sub-grade Area 64C south	31.04
08/07/06	1632WMNH	sub-grade Area 64C south	31.98
08/07/06	1633WMNH	sub-grade Area 64C south	31.21
08/07/06	1634WMNH	sub-grade Area 64C south	33.34
08/07/06	1635WMNH	sub-grade Area 64C south	33.34
08/07/06	1636WMNH	sub-grade Area 64C south	31.08
08/07/06	1637WMNH	sub-grade Area 64C south	30.83
08/07/06	1638WMNH	sub-grade Area 64C south	34.30
08/07/06	1639WMNH	sub-grade Area 64C south	28.50
08/23/06	1640WMNH	sub-grade Area 64C south	32.16
08/23/06	1641WMNH	sub-grade Area 64C south	32.46
08/23/06	1642WMNH	sub-grade Area 64C south	32.80
08/23/06	1643WMNH	sub-grade Area 64C south	29.62
08/23/06	1644WMNH	sub-grade Area 64C south	32.77
08/23/06	1645WMNH	sub-grade Area 64C south	31.19
08/23/06	1646WMNH	sub-grade Area 64C south	28.90
08/23/06	1647WMNH	sub-grade Area 64C south	33.52
08/23/06	1648WMNH	sub-grade Area 64C south	28.44
08/23/06	1649WMNH	sub-grade Area 64C south	31.31
08/23/06	1650WMNH	sub-grade Area 64C south	29.95
08/23/06	1651WMNH	sub-grade Area 64C south	31.04
08/23/06	1652WMNH	sub-grade Area 64C south	32.24
08/23/06	1653WMNH	sub-grade Area 64C south	27.28
08/23/06	1654WMNH	sub-grade Area 64C south	26.42
08/23/06	1655WMNH	sub-grade Area 64C south	33.54
08/24/06	1656WMNH	sub-grade Area 64B north	32.77
08/24/06	1657WMNH	sub-grade Area 64B north	31.96
08/24/06	1658WMNH	sub-grade Area 64B north	33.92
08/24/06	1659WMNH	sub-grade Area 64B north	31.47
08/24/06	1660WMNH	sub-grade Area 64B north	34.55
08/24/06	1661WMNH	sub-grade Area 64B north	32.51
08/24/06	1662WMNH	sub-grade Area 64B north	29.46
08/24/06	1663WMNH	sub-grade Area 64B north	29.32
08/24/06	1664WMNH	sub-grade Area 64B north	28.16
08/24/06	1665WMNH	sub-grade Area 64B north	32.48
08/24/06	1666WMNH	sub-grade Area 64B north	29.92
08/24/06	1667WMNH	sub-grade Area 64B north	23.10
08/28/06	1668WMNH	sub-grade Area 64E	31.54
08/28/06	1669WMNH	sub-grade Area 64E	31.60
08/28/06	1670WMNH	sub-grade Area 64E	31.66
08/28/06	1671WMNH	sub-grade Area 64E	32.15
08/28/06	1672WMNH	sub-grade Area 64E	31.65
08/28/06	1673WMNH	sub-grade Area 64E	28.74
08/28/06	1674WMNH	sub-grade Area 64E	34.26

Date Shipped	Doc. Number	Stockpile Area	Net Weight (Tons) (1)
08/28/06	1675WMNH	sub-grade Area 64E	31.26
08/28/06	1676WMNH	sub-grade Area 64E	32.51
08/28/06	1677WMNH	sub-grade Area 64E	31.80
08/29/06	1678WMNH	sub-grade Area 64E	32.93
08/29/06	1679WMNH	sub-grade Area 64E	31.71
08/29/06	1680WMNH	sub-grade Area 64E	32.41
08/29/06	1681WMNH	sub-grade Area 64E	32.05
08/29/06	1682WMNH	sub-grade Area 64E	29.73
08/29/06	1683WMNH	sub-grade Area 64E	31.50
08/29/06	1684WMNH	sub-grade Area 64E	33.38
08/29/06	1685WMNH	sub-grade Area 64E	33.54
08/30/06	1686WMNH	sub-grade Area 64E	30.85
08/30/06	1687WMNH	sub-grade Area 64E	32.73
08/30/06	1688WMNH	sub-grade Area 64E	32.15
08/31/06	1689WMNH	sub-grade Area 64E	30.44
08/31/06	1690WMNH	sub-grade Area 64E	31.70
08/31/06	1691WMNH	sub-grade Area 64E	30.99
08/31/06	1692WMNH	sub-grade Area 64E	31.51
08/31/06	1693WMNH	sub-grade Area 64D south	31.63
08/31/06	1694WMNH	sub-grade Area 64D south	32.21
08/31/06	1695WMNH	sub-grade Area 64D south	33.12
08/31/06	1696WMNH	sub-grade Area 64D south	32.14
08/31/06	1697WMNH	sub-grade Area 64D south	31.24
08/31/06	1698WMNH	sub-grade Area 64D south	31.47
08/31/06	1699WMNH	sub-grade Area 64D south	31.34
08/31/06	1700WMNH	sub-grade Area 64D south	31.75
08/31/06	1701WMNH	sub-grade Area 64D south	31.86
08/31/06	1702WMNH	sub-grade Area 64D south	31.87
08/31/06	1703WMNH	sub-grade Area 64D south	31.54
08/31/06	1704WMNH	sub-grade Area 64D south	29.63
Total of Material Disposed			3,522.15

Notes:

(1) Net weights established at the disposal facility.

**Table 2 - Jersey Barrier and Bin Block Concrete Characterization Analytical Results
August 2006 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	Date Collected	Aroclor 1016, 1221, 1232, 1242, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs	% Solids
H2-OT000406-0-6G23	23-Aug-06	ND(0.017)	0.031	0.058	0.089	98.3%
H2-OT000407-0-6G23	23-Aug-06	ND(0.017)	ND(0.017)	ND(0.017)	ND(0.017)	97.0%
H2-OT000408-0-6G23	23-Aug-06	ND(0.017)	ND(0.017)	ND(0.017)	ND(0.017)	98.0%

Notes:

PCB Action Level - 1.0ppm

ND(0.017) - Analyte was not detected. The value in parentheses is the associated detection limit.

J - Indicates an estimated value

ND - not detected

**Table 3 - Post-Removal Sub-Grade Material Stockpile Characterization Analytical Results
August 2006 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are presented in part per million, ppm)

Sample ID	H2-OT000402-0-6G15	H2-OT000403-0-6G15	H2-OT000405-0-6G21	H2-OT000409-0-6G31
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	15-Aug-06	15-Aug-06	21-Aug-06	31-Aug-06
Stockpile Location	Area 64C south	Area 64B north	Area 64E	Area 64D north
Analyte				
PCBS				
AROCLOR-1254	1.0	0.44	0.47	0.25
AROCLOR-1260	1.6	1.0	1.7	0.48
PCB, TOTAL	2.6	1.4	2.2	0.73
INORGANICS				
PAINT FILTER LIQUIDS (ml)	ABSENT	ABSENT	ABSENT	ABSENT
PERCENT SOLIDS (%)	89.0%	88.7%	87.4%	90.4%

Notes:

Only detected constituents are summarized

J - Indicates an estimated value

ND - not detected

Table 4 - Dense Grade Material from Fred Garner Park & Common Fill Material at the old Water Treatment Plant (Parcel I8-23-6) Stockpile Characterization Analytical Results
August 2006 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Location ID	OT000404	OT000410	Region IX Preliminary Remediation Goals	MCP Method 1 Standard
	Field Sample ID	H2-OT000410-0-6G31		
Date Collected	08/17/2006	08/31/2006	Residential	S-1
Location	FGP	Parcel I8-23-6		
Material Type	Dense Grade	Common Fill		
Analyte				(lowest)
PCBS				
AROCLOR-1254	2.9	0.035	N/A	2.0
AROCLOR-1260	0.39	ND	N/A	2.0
PCB, TOTAL	2.5 (2)	0.035	2.0 (1)	2.0
APP IX SEMIVOLATILES				
2-METHYLNAPHTHALENE	.26 J	ND	N/A	4.0
ACENAPHTHENE	.17 J	ND	N/A	100
ACENAPHTHYLENE	.37 J	ND	N/A	100
ANTHRACENE	.69 J	ND	22	1000
BENZO(A)ANTHRACENE	2.5 (3)		0.62	7
BENZO(A)PYRENE	2.7 (2)	.088 J	0.062	2
BENZO(B)FLUORANTHENE	2.2 (3)	.11 J (3)	0.62	7
BENZO(GH)PERYLENE	1.0	.079 J	N/A	1000
BENZO(K)FLUORANTHENE	2.0 (3)	.094 J	0.62	70
CHRYSENE	2.7	.093 J	62	7
DIBENZO(A,H)ANTHRACENE	.24 J (3)	.095 J	0.062	0.7
DIBENZOFURAN	.17 J	.021 J	150	N/A
FLUORANTHENE	4.9	ND	2300	1000
FLUORENE	.7 J	.14 J	2700	400
INDENO(1,2,3-C,D)PYRENE	.85 J (3)	ND	0.62	7
NAPHTHALENE	.26 J	.067 J	N/A	4
PHENANTHRENE	5.8	ND	N/A	100
PYRENE	5.1	.033 J	2300	1000
		.17 J		
APP IX VOLATILES				
2-BUTANONE	ND	.0044 J	22,000	0.3
ACETONE		.032	14,000	3
CARBON DISULFIDE	.012	.0029 J	360.0	N/A
	ND			
METALS				
ANTIMONY	0.36		31	20
ARSENIC	4.2 (3)	0.45	0.39	20
BARIUM	31.4	3.9	5,400	1,000
		19.6		

Table 4 - Dense Grade Material from Fred Garner Park & Common Fill Material at the old Water Treatment Plant (Parcel I8-23-6) Stockpile Characterization Analytical Results
August 2006 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Location ID	OT000404	OT000410	Region IX Preliminary Remediation Goals	MCP Method 1 Standard
Field Sample ID	H2-OT000404-0-6G17	H2-OT000410-0-6G31		
Date Collected	08/17/2006	08/31/2006	Residential	S-1
Location	FGP	Parcel I8-23-6		
Material Type	Dense Grade	Common Fill		
Analyte				(lowest)
BERYLLIUM			150	0.7
CADMIUM	0.20	0.20	37	2.0
CHROMIUM	0.20	0.20	30	30
COBALT	8.1	4.8	900	N/A
COPPER	14.3	5.1	3,100	N/A
LEAD	16.7	9.0	400	300
NICKEL	15.0	4.0	1,600	20
SELENIUM	12.8	8.4	390	400
THALLIUM	ND	0.74	5.2	8
TIN	1.2	ND	47,000	N/A
VANADIUM	0.51		78	600
ZINC	12.8	6.0	23,000	2,500
ZINC	48.1	38.9		
INORGANICS				
CORROSIVITY BY PH (ph)	8.1	8.2	N/A	N/A
CYANIDE	ND	ND	N/A	N/A
IGNITABILITY (deg)	>150	>150	N/A	N/A
PAINT FILTER LIQUIDS (ml)	Absent	Absent	N/A	N/A
PERCENT SOLIDS (%)	97.1%	91.2%	N/A	N/A
SULFIDE	ND	ND	N/A	N/A

Notes:

- (1) Based on spatial averaging approach in Consent Decree - Residential soil
 - (2) Exceeds both the Region IX Preliminary Remediation Goals and the MCP S-1 Standards for Residential Properties. Therefore, this material will be disposed of at an appropriate offsite disposal facility.
 - (3) Exceeds Region IX Preliminary Remediation Goals, however, levels are below MCP S-1 Standards for Residential Properties. Therefore, this material meets the criteria for unrestricted re-use.
- Only detected constituents are summarized
 J - Indicates an estimated value
 ND - not detected



Photograph 1 – Overview of Restored Parcels I6-1-66 and I6-1-67



Photograph 2 – Overview of Restored Parcel I9-4-201



Photograph 3 – Overview of the Rough Graded Topsoil on the Soccer Field in Fred Garner Park



Photograph 4 – Fine Grading of Topsoil on the Soccer Field in Fred Garner Park



Photograph 5 – Hydro-Seeding Activities on the Soccer Field in Fred Garner Park



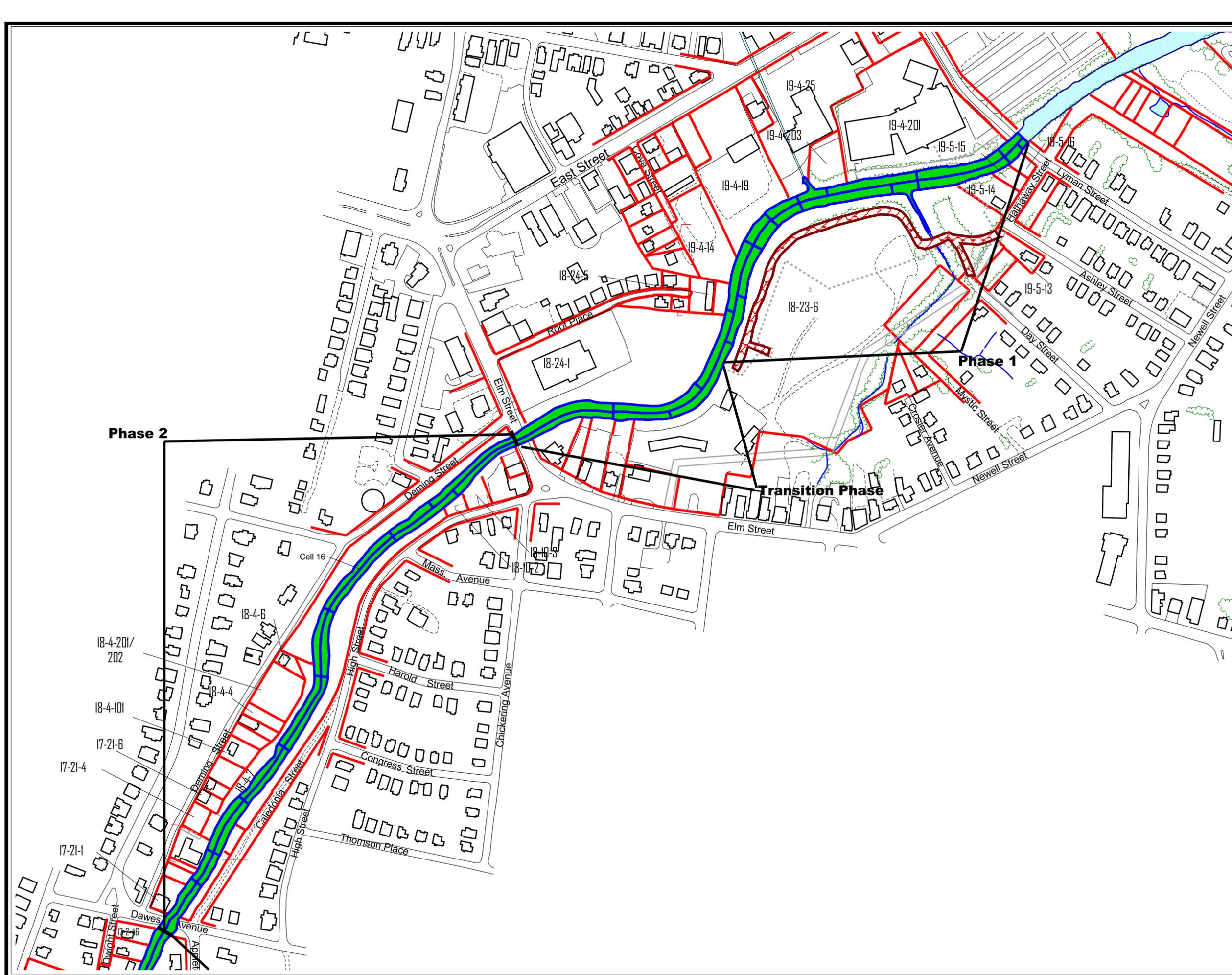
Photograph 6 – Overview of Re-seeded Soccer Field in Fred Garner Park



Photograph 7 – Overview of the Completed ACB Canoe Launch at the Fred Garner Park



Photograph 8 – Paved Entrance Road and Guardrail at the Fred Garner Park



LEGEND

-  Roads
-  Surface Water
-  Access Roads
-  Asphalt Access Road
-  Property Lines
-  Site Security Fence Line
-  Work Completed
-  Buried Electric/Telephone Line*

*Note: As-built features were located using a real time GPS unit



Scale in Feet



Figure 1
1.5 Mile Removal Action
Site Map (Map 1 of 2)
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