

November 16, 2015

Mr. Joseph T. Martella, II  
Rhode Island Department of Environmental Management  
Office of Waste Management  
235 Promenade Street  
Providence, RI 02908-5767



**Re: Status Report: October 2015 Remedial Action Work Plan (RAWP) Activities**

Former Gorham Manufacturing Facility  
333 Adelaide Avenue, Providence, RI  
File No.: SR-28-0549D

Dear Mr. Martella:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) on behalf of Textron Inc. (Textron) has prepared this monthly status report on the remediation activities conducted under the Phase II, Phase III, and Parcel C Remedial Action Work Plan (RAWP) at the former Gorham Manufacturing Facility at 333 Adelaide Avenue, Providence, Rhode Island (Figure 1). This is being submitted in accordance with the Order of Approval dated July 9, 2015.

This fourth monthly status report describes the remedial and monitoring activities conducted at the Site through October 31, 2015 by Amec Foster Wheeler and Textron's contractor Charter.

**REMEDIAL ACTION WORK PLAN ACTIVITIES**

During October 2015, the following activities were conducted:

Parcel C

- ▶ Charter completed the grading and compacting of common borrow layer over the marker fabric to fully cover Parcel C.
- ▶ Charter completed the placement and grading of 6" loam over the common borrow to finish grade.
- ▶ Parcel C hydroseeding was completed 10/16/15.
- ▶ Traffic cones and signs were removed from in front of the high school. Textron and Amec contacted the high school 10/22/15 that all work in front of the high school was now completed. Traffic would be limited to the Phase III Area.
- ▶ Monitoring growth of the grass surface and any areas for potential washout; grass is in the process of becoming established and will continue to be monitored.
- ▶ Mulch rolls (waddles) are being maintained within the east drainage ditch alongside the high school and along the top of slope in the NW corner of the site. Erosion control measures around the base of Parcel C are being maintained until substantial growth and stabilization of the grass surface is complete.

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- ▶ Charter's subcontractor Drilllex decommissioned eight (8) monitoring wells within Parcel C and the shoreline of the Inner Cove. These wells included: DP-B, DP-C, DP-D, DP-H, DP-J, DP-K, DP-L and DP-M. These drill points were originally used to investigate the groundwater plume in five foot increments to a depth of 60 to 80 feet below ground surface. These wells were grouted in place and the risers cut off below grade. Well abandonment logs were prepared by Drilllex and will be included within the Remedial Action Closure Report.
- ▶ The shallow groundwater monitoring wells being monitored as part of the Western Plume remain in place for compliance monitoring in accordance with the approved Remedial Action Work Plan. The next sampling round is scheduled for December 2015.

### Mashapaug Inner Cove

- ▶ Charter continued to operate the two, six-inch pumps for construction dewatering of the Inner Cove and discharging the water to the frac tank and then to the infiltration gallery on the Phase III Area.
- ▶ Charter continued to use the timber mat roads within the Inner Cove for sediment removal and restoration with a minimum of one foot cover of 10% organic material (and 20% organic material along the shoreline). Charter completed the removal of sediment and restoration of the Inner Cove on October 24, 2015.
- ▶ Charter removed a total of approximately 4,500 cubic yards (cy) sediment from the Inner Cove and staged the material on the Phase III Area for dewatering and stabilization.
- ▶ Following completion of sediment removal and backfilling operations within the Inner Cove on 10/24/15, Charter let the groundwater naturally recharge the Inner Cove. Approximately one foot of water had collected behind the Port-A-Dam on 10/26/15 before the liner was removed.
- ▶ Charter and Port-A-Dam loosened the dam strapping in several locations along the dam to slowly refill the Inner Cove without disturbing the newly placed soil cover.
- ▶ Once the water level within the Inner Cove and outside the Port-A-Dam were equivalent, the liner was completely released and the sand bags removed from the bottom of the Outer Cove, which were previously holding the toe of the dam.
- ▶ Following the removal of the sand bags and liners, the steel supports were removed from the Outer Cove. The Port-A-Dam removal was completed on 10/27/15. The liner and steel frame were staged at the top of slope on the Phase III Area and were cleaned and loaded for transport off-site on 10/28/15.
- ▶ The Inner Cove surface water line was up to the fringe wetlands (observed 10/31/15).
- ▶ The turbidity curtain will remain in place pending further stabilization of the Inner Cove soil cover.
- ▶ Planting within the fringe wetlands of the Inner Cove was completed 10/30/15.

### Phase III Area

- ▶ Charter graded the western and northern slope subgrade of the Phase III Area and began to place the marker fabric and 10% organic soil cover within the perimeter wetland. The access road from the Phase III Area down to the Inner Cove was removed.
- ▶ Timber mats were staged in the NE corner of the Phase III Area and were being cleaned within the former infiltration gallery area for transport off-site.
- ▶ Stumps remain stockpiled in the NE corner of the Phase III Area pending grinding and being spread on site in a thin layer.
- ▶ Erosion controls around the base of the Phase III Area continue to be maintained.

### Perimeter Air Monitoring

- ▶ Amec setup the four (4) perimeter air monitoring stations in the “B” positions as depicted on Fixed Air Perimeter Air Monitoring Locations (Attachment B). Additional wetting of the soil on the access road into the cove and across Parcel C was completed to manage the dust from the equipment. Air monitoring results of the previous week, along with 2-weeks of planned upcoming work were posted to the notification board.
- ▶ Following the 10/22/15 email to RIDEM, three (3) perimeter air monitoring stations were set up in the “C2-C4” positions depicted on the Fixed Perimeter Air Monitoring Locations Map at the completion of the Inner Cove restoration.
- ▶ The Time Weighted Average (TWA) dust monitoring concentrations measured at the four fixed stations on the perimeter, and hand held dust monitoring concentrations measures in the work areas were all below 0.150 mg/m<sup>3</sup> limit.
- ▶ Brief exceedances of the action level at the Meter B-2 (gate at the west end of the retail building) and the B-3 meter (Amtrak gate) were related to the trucks delivering imported soil to the site and the grading and compacting of the soil cap on Parcel C and hauling organic soil down to the Inner Cove. These were addressed by the water truck spraying Parcel C and the access road down to the Inner Cove prior to the student arrival beginning at 7:15 am and before their afternoon release and regularly scheduled passes across the site by the water truck.
- ▶ Several of the meters did exceed the action level for a few minutes when first started. These quickly stabilized or the meter(s) were recalibrated.

### Other

- ▶ Arrow Security services continued through 10/25/15 following the restoration of the Inner Cove - no issues were documented.
- ▶ Amtrak representatives have periodically been on site to inspect the area and make sure that the tarp is properly secured over the drying sediment within the former Carriage House Area.
- ▶ The bulletin board has been maintained with updated construction, projected work and the dust monitoring results for the most recent week completed.

### Inspection of the Outfall Structure

Weekly inspection of the Mashapaug Pond Outfall Structure by Amec Foster Wheeler was discontinued following the completion of the Inner Cove restoration and removal of the Port-A-Dam.

### **FUTURE ACTIVITIES**

A construction schedule dated November 4, 2015, prepared by Charter, has been included in this submittal. Amec Foster Wheeler will continue to provide weekly updates of the construction activities, air monitoring results and planned construction activities on a weekly basis.

If you have any questions regarding this report or require additional information, please contact Greg Simpson at Textron (401) 457-2635 or me at (978) 392-5327.

Sincerely,



David E. Heislein  
Senior Project Manager



Annette R. McLean  
Project Scientist

### Enclosures:

- Attachment A – Revised Construction Schedule dated November 4, 2015
- Attachment B – Air Monitoring Station Locations

cc: Greg Simpson, Textron (electronic)  
Bob Azar, Providence Redevelopment Agency (electronic)  
Mike Elliot, USACE (electronic)

## **Attachment A**

### **Revised Construction Schedule Dated November 4, 2015**

**Schedule Update 11.03.15**  
**Textron - Former Gorham Manufacturing Site**  
**Providence, RI**

ID	Task Name	Duration	% Complete	Start	Finish	June 1		July 1		August 1		September 1		October 1		November 1		December 1	
						5/24	6/7	6/21	7/5	7/19	8/2	8/16	8/30	9/13	9/27	10/11	10/25	11/8	11/22
1	AWARD	0.88 days	100%	Fri 6/12/15	Fri 6/12/15														
2	PREPARE & SUBMIT SUBMITTALS	90 days	100%	Tue 6/23/15	Fri 10/30/15														
3	REVIEW & APPROVE SUBMITTALS	81.88 days	100%	Wed 7/1/15	Mon 11/2/15														
4	MOBILIZE TO SITE (7/13/2015)	4.88 days	100%	Mon 7/13/15	Fri 7/17/15														
5	PARCEL C	57.88 days	100%	Mon 7/27/15	Fri 10/16/15														
6	R & D FENCE / INSTALL SCREENING	2.88 days	100%	Wed 7/29/15	Fri 7/31/15														
7	CLEAR & GRUB	4.88 days	100%	Wed 8/12/15	Tue 8/18/15														
8	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
9	GENERAL CLEAN UP	0.88 days	100%	Mon 8/17/15	Mon 8/17/15														
10	CUTS TO FILLS / ROUGH GRADE	16.88 days	100%	Tue 8/18/15	Thu 9/10/15														
11	F & I COMMON BORROW	17 days	100%	Thu 9/10/15	Mon 10/5/15														
12	F & I TOPSOIL	12.88 days	100%	Fri 9/18/15	Tue 10/6/15														
13	SEEDING	8.88 days	100%	Mon 10/5/15	Fri 10/16/15														
14	INNER COVE	90 days	87%	Wed 7/15/15	Fri 11/20/15														
15	CLEAR & GRUB	7 days	100%	Wed 7/15/15	Tue 7/28/15														
16	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
17	CONSTRUCT HAUL ROAD	1.88 days	100%	Tue 7/28/15	Wed 7/29/15														
18	WILDLIFE MITIGATION	0.88 days	100%	Thu 8/6/15	Thu 8/6/15														
19	INSTALL PORTADAM	2.88 days	100%	Tue 8/4/15	Thu 8/6/15														
20	SET UP DECANTING / DEWATERING	2.88 days	100%	Fri 7/31/15	Tue 8/4/15														
21	DEWATER POND	2 days	100%	Wed 8/5/15	Mon 8/10/15														
22	SEDIMENT REMOVAL	48.88 days	100%	Fri 8/14/15	Fri 10/23/15														
23	10% ORGANIC PLACEMENT	30.88 days	100%	Thu 9/10/15	Fri 10/23/15														
24	20% ORGANIC PLACEMENT	4.27 days	100%	Wed 10/14/15	Tue 10/20/15														
25	SEDIMENT DECANTING	49.88 days	100%	Fri 8/14/15	Mon 10/26/15														
26	SEDIMENT PLACEMENT (ONSITE)	20 days	10%	Fri 10/23/15	Fri 11/20/15														
27	FLOOD COVE	1 day	100%	Fri 10/23/15	Mon 10/26/15														
28	PORTADAM REMOVAL	2 days	100%	Tue 10/27/15	Wed 10/28/15														
29	WETLAND PLANTINGS	11.88 days	50%	Thu 10/22/15	Fri 11/6/15														
30	PHASE 3	90.88 days	35%	Mon 7/20/15	Mon 11/30/15														
31	CLEAR & GRUB	7 days	100%	Mon 7/20/15	Mon 10/19/15														
32	EROSION CONTROL	0 days	100%	Mon 7/27/15	Mon 7/27/15														
33	GENERAL CLEAN UP	1 day	100%	Mon 7/27/15	Tue 7/28/15														
34	CUTS TO FILLS / ROUGH GRADE	10 days	50%	Mon 10/26/15	Mon 11/9/15														
35	F & I COMMON BORROW	10 days	0%	Mon 11/2/15	Tue 11/17/15														
36	20% ORGANIC PLACEMENT	1.4 days	100%	Wed 10/28/15	Tue 11/3/15														
37	F & I TOPSOIL	10 days	0%	Mon 11/9/15	Tue 11/24/15														
38	SEEDING	2 days	0%	Tue 11/24/15	Mon 11/30/15														
39	SUBSTANTIAL COMPLETION (11/21/2015)	0 days	0%	Mon 11/30/15	Mon 11/30/15														
40	CLEAN UP / PUNCHLIST / DEMOB	4 days	0%	Mon 11/30/15	Fri 12/4/15														
41	FINAL COMPLETION (12/5/2015)	0 days	0%	Fri 12/4/15	Fri 12/4/15														

## **Attachment B**

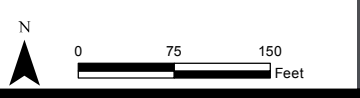
### **Air Monitoring Station Locations**



Document: P:\old\_wakefield\_data\projects\TEXTORNGORHAM\GIS\MapDocuments\RAWP - Phase III\SitePlan.mxd PDF: P:\BOS\Texton\365214\0032 - Texton Gorham Remediation\8.0 Proj Deliverables\8.2 Work Plans\Figure 2 - Site Plan.pdf



**● A1, B1, C1**  
**Perimeter Air Monitoring Locations Sequenced with the Construction Work**



**Legend**

- Approximate Parcel Boundary
- Former Slag Area

Note: 2011 Ortho photo obtained from Rhode Island Geographic Information System (RIGIS)

Prepared/Date: ~~OUT A 03 15~~  
 Checked/Date: DEH 6/25/15

Former Gorham Manufacturing Site  
 333 Adelaide Avenue  
 Providence, RI



**Perimeter Air Monitoring Locations**  
 Project 3652-14-0032  
 Figure F