



engineering and constructing a better tomorrow

December 11, 2008

Mr. Joseph T. Martella II, Senior Engineer  
RIDEM Office of Waste Management  
Site Remediation Program  
235 Providence Street  
Providence, RI 02908

**RE: Mashapaug Cove Groundwater Investigation  
Former Gorham Manufacturing Facility  
333 Adelaide Avenue, Providence, Rhode Island  
MACTEC Project No. 3650050041.22**

Dear Mr. Martella:

On behalf of Textron, Inc., this letter presents the scope of work for the installation of monitoring wells and the collection of groundwater samples from Mashapaug Cove, behind the former Gorham Manufacturing Site. The objective of this investigation is to complete the delineation of the groundwater contamination as it extends north from the retail complex towards the Cove. Textron will continue to investigate in order to cleanup the site.

#### **BACKGROUND**

Investigations have been conducted at the Site that identified a groundwater plume extending from the upland area north to Mashapaug Cove. Additional investigations in the Mashapaug Inner Cove identified contamination in the sediments similar to those detected in the groundwater. To date this groundwater plume has been delineated within the upland area of the Site, but has not been delineated within the Inner Cove nor the interaction between the groundwater and cove sediment completed. As discussed in the response to comments for the July 2006 Supplemental Site Investigation Report, additional investigations are required to complete the conceptual site model for groundwater flow from the upland area of the Site into Mashapaug Cove and complete the delineation of the contaminated groundwater.

#### **SCOPE OF WORK**

MACTEC Engineering and Consulting, Inc. (MACTEC) and its subcontractor will conduct vertical profiling at four locations along the Cove shoreline (Figure 1, A-D) and four locations within the Inner Cove (Figure 1, E-G and I). Groundwater samples will be collected beginning at the water table extending down approximately 40 feet below the pond surface. The groundwater samples will be field screened with a photo-ionization detector (PID) and analyzed in an onsite laboratory for volatile organic compounds (VOCs). This data will also be used to confirm the horizontal location of proposed monitoring wells and the vertical location of the well screens. Four couplet wells (two individual wells with different well screen depths) will be installed at each location along the southern shoreline of the Inner Cove (Figure 1, A-D). Once developed, groundwater samples will be collected and sent to an off-site laboratory for VOC analyses.

## REPORTING

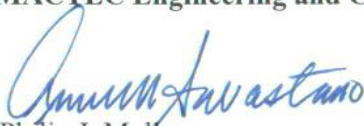
A field activities report to summarize the groundwater sampling program and the analytical results will be prepared and submitted to RIDEM approximately 30 days following receipt of the analytical data.

## PROPOSED SCHEDULE

Textron has scheduled field activities for this groundwater investigation between December 15 and 23, 2008. MACTEC will distribute written notification of this work to the abutters, stakeholders and building owner/occupants in accordance with the Remediation Regulations prior to conducting the work. The notification will be issued in both English and Spanish.

We look forward to working with RIDEM on the implementation and results of this groundwater investigation. Feel free to contact either Dave Heislein at (781) 213-5655 or Greg Simpson of Textron at (401) 457-2635 with any questions.

Sincerely,  
**MACTEC Engineering and Consulting, Inc.**

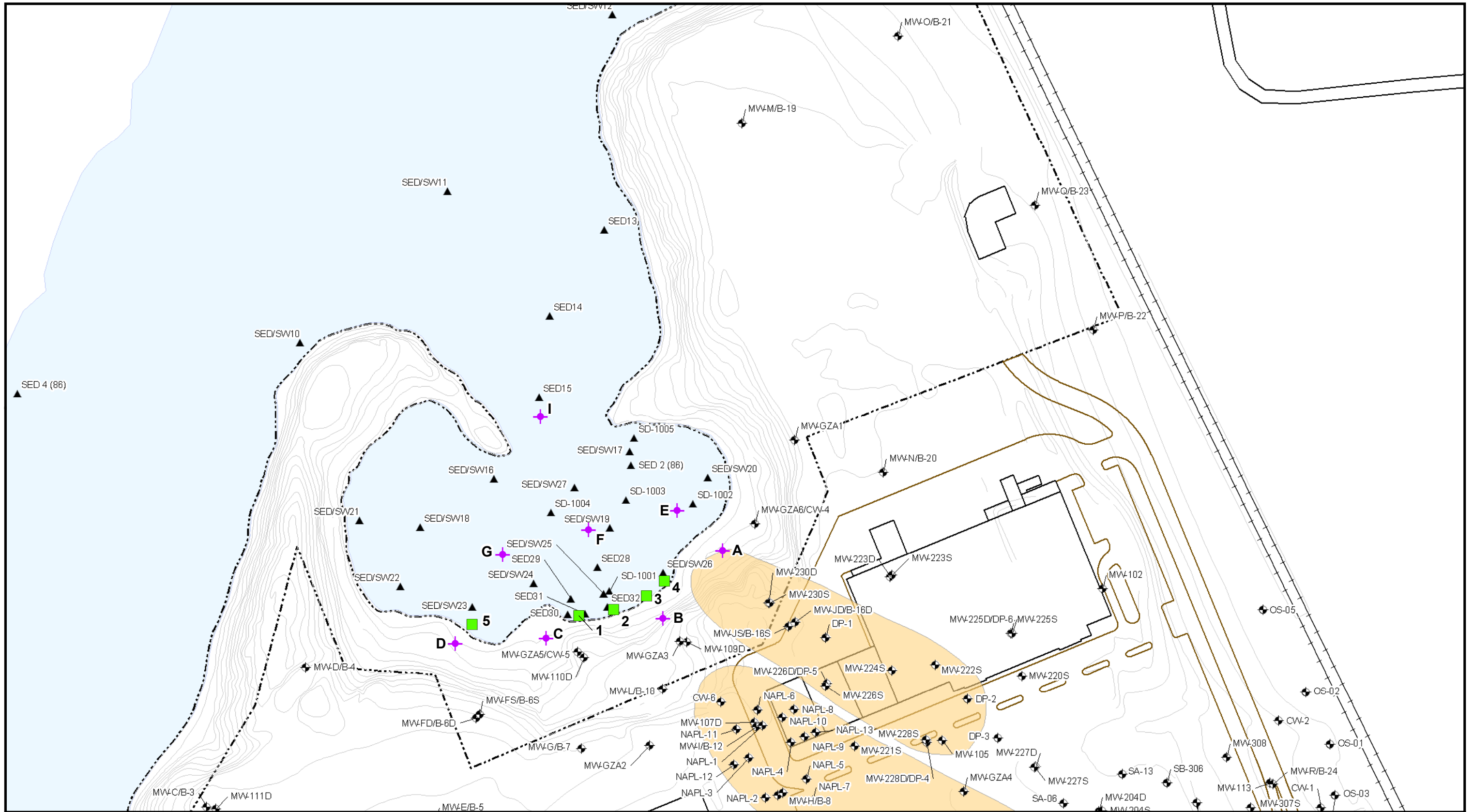
  
for Philip J. Muller  
Project Engineer with permission

  
for David E. Heislein  
Principal Engineer *with permission*

Attachment: Figure 1 – Proposed Sample Locations

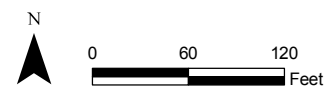
cc: T. Deller, City of Providence  
EA Engineering, Science, and Technology  
G. Simpson, Textron, Inc.  
J. Schiff, Textron, Inc.  
G. Wilson, Kimco Realty  
J. Morgan, Stop & Shop, LLC  
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MACTEC Project File [P:\3650050041 - Textron Gorham\4.0 Project Deliverables\4.2 Work Plans\Cove Inv RIDEM WP\_121108.doc]





**Legend**

- ◆ Proposed temporary or permanent monitoring well or piezometer
- Proposed explorations to characterize groundwater source of near shore sediment impacts
- ◆ Existing Groundwater Sample Location
- ▲ Existing Sediment Sample Location
- Approximate Groundwater Plume Boundary
- Elevation Contour
- Pavement
- Railroad
- ⊠ Park Parcel Boundary



Prepared by BJR | Checked by MJM

**Figure 1**  
Proposed Sample Locations

333 Adelaide Avenue  
Providence, Rhode Island  
MACTEC, Inc.