

September 19, 2011  
Project 130274

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: August 2011 Activities  
Former Gorham Manufacturing Facility  
333 Adelaide Avenue, Providence, RI  
Site Remediation Case No. 97-030**

Dear Mr. Martella:

Shaw Environmental, Inc. (Shaw) has prepared this status report on behalf of Textron, Inc. (Textron). This status report is associated with the remediation of tetrachloroethene (PCE) contaminated groundwater at the former Gorham Manufacturing Facility at 333 Adelaide Avenue, Providence, Rhode Island (Figure 1).

PCE is the primary contaminant of concern for groundwater in this area. As discussed in the Remedial Action Work Plan (RAWP) and subsequent revisions, the PCE source area in the vicinity of the former building W is the area of concern with a site-specific remedial goal of 7,700 micrograms per liter (ug/L). This area was treated using in-situ applications of sodium permanganate. Figure 2 shows the most recent treatment area.

This status report describes groundwater monitoring activities conducted in accordance with the proposed groundwater monitoring program submitted to the Rhode Island Department of Environmental Management (RIDEM) in February 2007 (Shaw – Groundwater Monitoring Program letter, dated February 1, 2007).

## **FIELD ACTIVITIES**

The following field activities were conducted on August 23, 2011.

### Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on August 23, 2011. Field measurements included oxidation/reduction potential (ORP), dissolved oxygen (DO), pH, temperature, and specific conductance (SC). Groundwater elevation and light non-aqueous phase liquid (LNAPL) thickness measurements were also collected. During the synchronous gauging, light non-aqueous phase liquid (LNAPL) was detected in MW-221S at a thickness of 1.18 feet. Field parameter and gauging results are presented in Tables 1 and 2.

### Groundwater Sampling

Groundwater samples were collected for analysis for volatile organic compounds (VOCs) (EPA Method 8260B) on August 23, 2011 from 22 monitoring wells within and around the treatment area, including compliance wells. One duplicate sample was collected from MW-101S (MW-101S DUP) for VOC analysis. One sample was collected for total petroleum hydrocarbon (TPH) analysis (modified EPA Method 8015 B) from monitoring well CW-6. One duplicate sample was collected from CW-6 (CW-6 DUP) for TPH analysis. Samples were collected for lead analysis (EPA Method 6010B) from monitoring wells MW-109D and GZA-3. One duplicate sample was collected from GZA-3 (GZA-3 DUP) for lead analysis. Groundwater samples were delivered to AMRO Environmental Laboratories Corporation in Merrimack, New Hampshire for analysis.

## **SUMMARY OF ANALYTICAL DATA**

A summary of the analytical data associated with the groundwater sampling conducted in August 2011 is contained in Table 3. A copy of the laboratory analytical report is attached to this report. The PCE concentration found in well MW-201D was above the treatment goal at a concentration of 8,400 ug/L.

A summary of the compliance well results is contained in Table 4. The results for the TPH Remediation Area Well indicate an exceedance of the compliance standard for the primary sample. The results for the Adelaide Avenue Wells for MW-112, MW-209D, and MW-218D indicate exceedances for PCE. Due to sample dilution by the laboratory, the reporting limit for 1,1-dichloroethene and vinyl chloride exceed the compliance standard for wells MW-209D and MW-218D.

## **FUTURE ACTIVITIES**

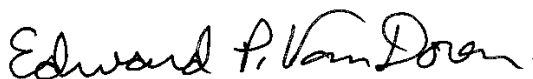
The next sampling event is scheduled for February 2012.

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If you have any questions regarding this report, please contact Ed Van Doren at (603) 870-4530.

Sincerely,

**SHAW ENVIRONMENTAL, INC.**



Edward P. Van Doren  
Project Manager

Attachments:

Figures

Figure 1 – Site Plan

Figure 2 – Injection Well Locations

Tables

Table 1 – Summary Field Parameters

Table 2 – Groundwater Elevations

Table 3 – VOCs in Groundwater

Table 4 – Compliance Wells Analytical Results

Laboratory Analytical Report

cc: Craig Roy, RIDEM OWR  
Greg Simpson, Textron  
Jamieson Schiff, Textron  
Dave Heislein, MACTEC  
Thomas Dellar, City of Providence  
Jeff Morgan, Stop & Shop  
Ronald Ruth, Sherin and Lodgen

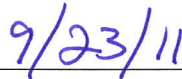
## CERTIFICATIONS

The following certifications are provided pursuant to Rule 9.19 of the Remediation Regulations:

I, Edward P. Van Doren, as an authorized representative of Shaw Environmental, Inc. and the person responsible for the preparation of this Status Report dated September 19, 2011, certify that the information contained in this report is complete and accurate to the best of my knowledge.



Edward P. Van Doren  
Project Manager



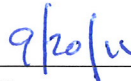
Date:

We, Textron, Inc., as the party responsible for submittal of this Status Report, certify that this report is a complete and accurate representation of the contaminated site and the release, and contains all known facts surrounding the release, to the best of our knowledge.

Certification on behalf of Textron Inc.



Gregory L. Simpson  
Project Manager



Date: