



CB&I Environmental & Infrastructure, Inc.
(A CB&I Company)
150 Royall Street
Canton, MA 02021
Tel: +1 617 589 5111
Fax: +1 617 589 5495
www.CBI.com

September 18, 2014

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: June, July, and August 2014 Activities
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, RI
Site Remediation Case No. 97-030**

Dear Mr. Martella:

CB&I Environmental & Infrastructure, Inc. (CB&I), 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 at the site by CB&I. This report includes results of groundwater sampling and analysis conducted in June, July, and August of 2014.

FIELD ACTIVITIES

Limited VOC Sampling Activities June and July 2014

Limited groundwater sampling was conducted in June and July 2014. Monitoring wells MW-112, MW-116D, and MW-116S were sampled for volatile organic compound (VOC) analysis. Groundwater elevation results for these wells are included in **Table 2**.

Groundwater Sampling

Groundwater samples were collected for VOC analysis (EPA Method 8260C) from the three monitoring wells (MW-112, MW-116D, and MW-116S) on June 10 and July 11, 2014. Groundwater samples were delivered to Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

Groundwater Sampling Activities August 2014

The monitoring wells that comprise the current semi-annual groundwater monitoring activities program were monitored for field parameters and sampled for analysis on August 22, 2014.

Monitoring Activities

Field parameters were measured in treatment area wells and compliance wells on August 22, 2014. 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. Elevation and field parameter results are presented in **Tables 1** and **2**.

Groundwater Sampling

On August 22, 2014 groundwater samples were collected for analysis for VOCs (EPA Method 8260C) from 21 monitoring wells within and around the treatment area, including the compliance wells. (Note that 21 samples were collected, however, the laboratory inadvertently failed to analyze the sample from well MW-202S before the method hold time had expired. Therefore, the sample for MW-202S was not analyzed for this event.) 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 C) from monitoring well CW-6. One duplicate sample was collected from CW-6 (CW-6 DUP) for TPH analysis. Samples were also collected for lead analysis (EPA Method 6010C) 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 Con-Test Analytical Laboratory in East Longmeadow, Massachusetts for analysis.

SUMMARY OF ANALYTICAL DATA

A summary of the analytical data associated with the groundwater sampling conducted on June 10, July 11 and August 22, 2014 is contained in **Table 3**. A copy of each laboratory analytical report is also attached to this report. The measured PCE concentrations were below the treatment goal of 7,700 ug/L in all wells except for well MW-101S and MW-201D; both wells had a PCE concentration of 14,000 ug/L on August 22, 2014. Note that the PCE concentrations in well MW-112 ranged from 3,500 ug/L on June 10, 2014 to 1,700 ug/L on July 11, 2014 to 2,600 ug/L on August 22, 2014

A summary of the compliance well results is contained in **Table 4**. The results for the compliance well sampling indicate that exceedances of the compliance standard occurred for the Adelaide Avenue wells MW-112 and MW-209D for PCE. However, well MW-209D is not a water table well. The top of the well screen for MW-209D is set approximately 30 feet below the water table. (Note: due to sample dilution by the laboratory, the laboratory analytical reporting limits for 1,1-dichloroethene and vinyl chloride for well MW-112, for the July and August 2014 results, were above the compound compliance standard.)

FUTURE ACTIVITIES

The next limited sampling events are scheduled for September and October 2014. The next complete round of sampling (i.e., wells included in the semi-annual sampling event) is scheduled for November 2014.

If you have any questions regarding this report, please contact Ed Van Doren at (617) 589-4030.

Sincerely,



Edward P. VanDoren
Project Manager
CB&I Environmental & Infrastructure, Inc.

Enclosures:

Table 1 – Groundwater Elevations
Table 2 – Summary Field Parameters
Table 3 – VOCs in Groundwater
Table 4 – Compliance Wells Analytical Results

Figure 1 – Site Plan
Figure 2 – Injection Well Locations

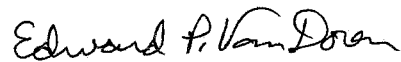
Attachment A - Laboratory Analytical Reports

cc: Craig Roy, RIDEM OWR
Greg Simpson, Textron
Jamieson Schiff, Textron
Dave Heislein, AMEC
Robert Azar, Providence Redevelopment Agency
Jeff Morgan, Stop & Shop
Ronald Ruth, Sherin and Lodgen

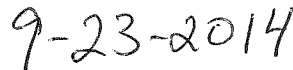
CERTIFICATIONS

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

I, Edward P. Van Doren, as an authorized representative of CB&I Environmental & Infrastructure, Inc., and the person responsible for the preparation of this Status Report dated September 18, 2014, certify that the information contained in this report is complete and accurate to the best of my knowledge.



Edward P. Van Doren
Project Manager



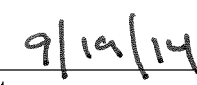
Date:

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:

TABLES

FIGURES

ATTACHMENT A

LABORATORY REPORTS