



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

CERTIFIED MAIL

July 14, 2009

Alan Sepe, Acting Director
Department of Public Properties
City of Providence
25 Dorrance Street
Providence, RI 02903

RE: Order of Approval Addendum 3, Providence Public High School Site – Parcel B
Formerly a portion of the Gorham/Textron Dump site, 333 Adelaide Avenue, Providence
City of Providence Tax Assessor's Office Plat 51, Lot 323, Parcel B
Case No. 2005-029 (Formerly part of Case No. 97-030)

Dear Mr. Sepe:

Enclosed please find the Order of Approval Addendum 3 (OA Addendum 3) for the remediation plan for the above referenced facility. Please review the stipulations of the attached OA Addendum 3 thoroughly to ensure your compliance with the requirements. The original Order of Approval (Order) dated June 9, 2006, the Order of Approval Addendum 1 (OA Addendum 1) dated February 27, 2007, the Order of Approval Addendum 2 (OA Addendum 2) dated July 26, 2007, and this OA Addendum 3 (collectively the Amended Orders) place primary responsibility for the construction, operation, maintenance and monitoring of the approved Remedial Action Work Plan (RAWP) and its associated remedy on the City of Providence (the City). In order to enable the Department to monitor the City's compliance with the RAWP, the Amended Orders require the City to notify the Department of any condition that is non-compliant with the Amended Orders, or that constitutes an interruption of the RAWP. In order to maintain compliance with the Amended Orders and the RAWP, the City's responsibilities under the Amended Orders necessarily include the responsibility to respond to and correct non-compliant conditions in a timely, proactive and professional manner that minimizes non-compliance with the Amended Orders and RAWP, and protects human health and the environment.

This OA Addendum 3 shall be recorded in the land evidence records of the City of Providence within 30 days of execution as required by law, and a recorded copy must be returned to the Department within 7 days of recording. If you have any questions regarding this matter, please contact me at (401) 222-2797 x7109.

Sincerely,

Joseph T. Martella II
Senior Engineer
Office of Waste Management

cc: Terrence D. Gray, P.E., Assistant Director, RIDEM/AW&C
Leo Hellested, P.E., Chief, RIDEM/OWM
Kelly J. Owens, RIDEM/OWM
John Langlois, Esq., RIDEM/OLS
Barbara Morin, RIDEM/OAR
Robert Vanderslice, PhD, RIDOH
Tammie A. McRae, ATSDR
Hon. David N. Cicilline, Mayor, City of Providence
Senator Juan M. Pichardo, District 2
Representative Thomas Slater
Councilman Peter S. Mancini, President
Councilman Leon F. Tejada, Ward 8
Thomas Deller, City of Providence
Thomas M. Brady, Superintendent, Providence Schools
Robert Wise, President – Providence School Bd.
Mark K. Speer, EA
Gregory L. Simpson, Textron
Robert Dorr
Knight Memorial Library – Project Repository

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

In the matter of the application for a Remedial Action Approval at: Case No. 2005-029
Providence Public High School Site – Parcel B
(Formerly a portion of the Gorham/Textron Dump site)
333 Adelaide Avenue, Providence, RI, Plat 51, Lot 323 (the Site)

ORDER OF APPROVAL ADDENDUM 3

In the above entitled matter the Rhode Island Department of Environmental Management (the Department), issued to the **City of Providence (the City), in its capacity as owner and Responsible Party for the remediation of property located at 333 Adelaide Avenue, Providence**, an Order of Approval (Order) dated June 9, 2006, a first Order of Approval Addendum (OA Addendum 1) dated February 27, 2007, and a second Order of Approval Addendum (OA Addendum 2) dated July 26, 2007.

On March 4, 2008, the Department received a written request from EA Engineering, Science, and Technology, Inc. (EA), to change the City's indoor air and sub slab vapor sampling frequency and amend the requirements of OA Addendum 2. In addition, on January 29, 2009, the Department met with representatives of EA to discuss the ongoing operation of the system and the air and soil vapor data results collected up to that date. Based upon discussions at that meeting, the Department requested a revised submittal detailing the City's request, including documentation demonstrating that the system has been operating properly, and supporting the requested reduction in sampling frequency. The following document was subsequently filed by EA on behalf of the City:

- Order of Approval Amendment Request, Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island, prepared by EA, and dated April 27, 2009.

Based on review of the above referenced document, and additional sampling data submitted to date, the Department has concluded that an additional modification to the prior Order is warranted.

Subject to the conditions herein, the listed document, as well as the documents listed in the Order dated June 9, 2006, the OA Addendum 1 dated February 27, 2007, and the OA Addendum 2 dated July 26, 2007, fulfill the requirements of Section 9.00 (Remedial Action Work Plan) of the Department's Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases (Remediation Regulations), as amended February 24, 2004, and describe a plan to remediate existing contamination pursuant to 23-19.14-1 et seq. and the Department's Remediation Regulations, in accordance therewith.

It is the Department's intent that all conditions set forth in the Order dated June 9, 2006, OA Addendum 1 dated February 27, 2007, and the OA Addendum 2 dated July 26, 2007, shall remain in full force and effect unless specifically altered by this third Order of Approval Addendum (OA Addendum 3). This OA Addendum 3 continues to place primary responsibility for the construction, operation, maintenance and monitoring of the approved Remedial Action Work Plan (RAWP) and its associated remedy on the City. As the responsible party and performing

party, the City is expected to implement the RAWP in an expeditious and professional manner that prevents non-compliance with the original Order, OA Addendum 1, OA Addendum 2, OA Addendum 3, and the RAWP, and protects human health and the environment. For the convenience of the City and its contractors and consultants, the changes made to the original Order by this OA Addendum 3 have been highlighted below using boldfaced type and include a reference to the original paragraph of the Order as applicable.

Upon consideration thereof, and in accordance with Rule 10.1 (Remedial Action Approvals) of the Remediation Regulations, the Department approves said RAWP to remediate contamination through this OA Addendum 3, subject to the following amended conditions:

- 1) **All conditions set forth in the Order of Approval dated June 9, 2006, OA Addendum 1 dated February 27, 2007, and OA Addendum 2 dated July 26, 2007, shall remain in full force and effect unless specifically altered by this OA Addendum 3.**
- 2) Sampling and laboratory analysis of all media involved in the Remedial Action shall be conducted in accordance with the requirements of the RAWP, **the original Order, OA Addendum 1, OA Addendum 2, and this OA Addendum 3** [Ref. original Order ¶ 5].
- 3) The Site remedy as described in the RAWP, original **Order, OA Addendum 1, and OA Addendum 2**, shall **also** incorporate the following [Ref. original Order ¶ 6]:
 - a) **A “complete round” of compliance sampling shall include 15 sample locations per sampling event, selected from the network as follows:**
 - i) **One (1) ambient outdoor air sample**
 - ii) **All eight (8) interior sampling locations;**
 - iii) **Four (4) of the eight (8) perimeter sub slab sample collection locations (MP-1 through MP-8), selected on a rotational basis such that each location is sampled at an equal frequency;**
 - iv) **Two (2) of the three (3) centrally located sub slab sample locations (IMP-1 through IMP-3), selected on a rotational basis such that each location is sampled at an equal frequency;**
 - v) **All samples shall be analyzed for volatile organic compounds (VOCs) by EPA TO-15 SIM.**
 - b) **The schedule for periodic compliance sampling and compliance monitoring shall be as follows [Ref. Order ¶ 6.e.iv]:**
 - i) **Starting with the completed April 2009 sampling round, and quarterly thereafter (i.e. the next scheduled quarterly sampling round shall be in July 2009), a “complete round” of VOC compliance sampling and analysis shall be performed at the locations identified in item a) above.**
 - ii) **Methane monitoring shall continue to be performed monthly at all interior and sub slab locations.**
 - iii) **In the event that a remedial Action Level exceedance is detected at an indoor air sampling location, the City shall conduct an evaluation to determine the source of**

the exceedance. In the event that the source of the exceedance cannot be determined, or is determined to be resultant from soil vapor intrusion, then the sampling frequency for the non-compliant indoor sampling location and the closest sub-slab sampling location shall be adjusted to monthly until the problem is resolved and the concentrations measured at the non-compliant indoor sampling location are demonstrated to be compliant with the remedial Action Levels for a period of three (3) consecutive months.

- iv) **During any period that the indoor air sampling frequency is adjusted to monthly, the City shall submit a monthly comment letter to the Department documenting the results of any additional sampling and monitoring conducted during the prior month.**
 - v) **The City shall continue to provide remedial Action Level exceedance notifications to the Department in accordance with the requirements of the original and amended Orders and to promptly investigate the potential source of any reported exceedance.**
- c) **Periodic monitoring of methane and compliance sampling and analysis of VOCs shall continue at the specified rate as long as a source of contamination exists, unless otherwise authorized by the Department in written correspondence to the City [Ref. Order ¶ 6.e.ix].**
- 4) **The City shall have this OA Addendum 3 recorded in the City of Providence, land evidence records of the subject property within thirty (30) days of execution of this OA Addendum 3 [Ref. Order ¶ 23].**

Subject to future revisions or amendments by the Department, the original Order, **OA Addendum 1, OA Addendum 2, and this OA Addendum 3** shall remain in full force and effect for as long as said RAWP shall be operated and maintained in a condition satisfactory to the Department. Failure to comply with all points outlined in the Department approved RAWP and stipulated in the original Order, **OA Addendum 1, OA Addendum 2, and this OA Addendum 3** shall result in the issuance of a Notice of Violation and Order against the City.

The original Order, **OA Addendum 1, OA Addendum 2, and this OA Addendum 3** shall be subject to modification or revocation in accordance with law.

Entered as an approval by the Department this 14th day of July, 2009.

By: 

Leo Hellested, P.E.
Chief, Office of Waste Management
Department of Environmental Management