



RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

REMEDIAL DECISION LETTER
CASE NO. 2009-018

July 7, 2010

Mr. Robert F. McMahon, Superintendent
Providence Parks Department
Dalrymple Boathouse
Roger Williams Park
Providence, RI 02905

RE: Lincoln Lace and Braid – Mill Site
55-61 Ponagansett Street
Plat 113 / Lots 305 and 429
Providence, Rhode Island

Dear Mr. McMahon:

In 2004, the Rhode Island Department of Environmental Management (the Department) amended the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in a timely and cost-effective manner. A **Remedial Decision Letter (RDL)** is a formal, written communication from the Department that approves a site investigation, identifies the preferred remedial alternative and authorizes the development of a Remedial Action Work Plan in order to achieve the objectives of the environmental clean-up.

The Department has the following documents on file in the matter of the above referenced "Site" (as defined in the Industrial Property Remediation and Reuse Act):

1. Correspondence entitled **Lab Project # C1203, Client Project # NA**, received by the Department on November 21, 1996, prepared and submitted by Mitkem Corporation (Mitkem);
2. Correspondence entitled **Gas Chromatography-Mass Spectrometry Analysis of Extractable Organics in Soils and Sediments – Lace Textile**, received by the Department on December 4, 1996, prepared and submitted by the United States Environmental Protection Agency (USEPA);
3. **Results of Subsurface Site Investigation**, received by the Department on December 23, 1996, prepared and submitted by Fuss & O'Neill, Inc. (F&O);

4. Correspondence entitled **Client Project #: Lincoln Lace, Lab Project #: E0020**, received by the Department on January 27, 1998, prepared and submitted by Mitkem;
5. Correspondence entitled **Work Plan**, received by the Department on October 27, 1998, prepared and submitted by Cyn Environmental Services (Cyn);
6. **Short-Term Response Report (Response Report)**, dated February 10, 1999, prepared and submitted by Cyn;
7. Laboratory Analytical Data Reports, dated May 27, 1999, prepared and submitted by ESS Laboratory;
8. Laboratory Analytical Data Reports, dated June 2, 1999, prepared and submitted by ESS Laboratory;
9. Laboratory Analytical Data Reports, dated July 17, 1999, prepared and submitted by ESS Laboratory;
10. Correspondence entitled **Former Landfill / Dump Location and Extent**, received by the Department on October 2, 1999, prepared and submitted by F&O;
11. **Remedial Evaluation Report**, dated December 1999, prepared by the Department's Office of Waste Management;
12. Correspondence entitled **Testing Documentation**, dated December 1999, prepared and submitted by the Trust for Public Land;
13. Laboratory Analytical Data Reports, received by the Department on February 24, 2000, submitted by F&O;
14. **Pre-Design Investigation Report**, dated August 2000, prepared by the Department's Office of Waste Management;
15. Correspondence entitled **Proposal for Limited Subsurface Investigation**, received by the Department on January 11, 2002, prepared and submitted by F&O;
16. Correspondence entitled **Proposal for Remedial Assessment**, received by the Department on January 8, 2003, prepared and submitted by F&O;
17. **Remedial Evaluation Report Addendum**, received by the Department on February 11, 2003, prepared and submitted by F&O;

18. **Remedial Evaluation Report Addendum**, received by the Department on March 17, 2003, prepared and submitted by F&O;
19. **Remedial Evaluation Report Addendum**, dated April 2003, prepared by the Department's Office of Waste Management;
20. **Public Notice Letters** notifying abutters of investigation work, received by the Department on October 10, 2003, prepared and submitted by the Department of Planning and Development for the City of Providence;
21. Correspondence entitled **Site Security – Former Lincoln Lace and Braid Property, Providence**, received by the Department on August 10, 2004, prepared and submitted by the Department of Public Parks for the City of Providence;
22. Correspondence entitled **Remedial Alternatives Analysis**, received by the Department on May 11, 2009, prepared and submitted by EA Engineering, Science, and Technology, Inc. (EA);
23. Correspondence entitled **Revised Remedial Alternatives Analysis**, received by the Department on July 8, 2009, prepared and submitted by EA;
24. **\$1,000.00 Remedial Action Approval Application Fee**, received by the Department on July 14, 2009;
25. **Historical Site Characterization Site Plan**, received by the Department on July 23, 2009, prepared and submitted by EA;
26. **Lincoln Lace and Braid Supplemental Sampling and Analysis Plan**, received by the Department on July 30, 2009, prepared and submitted by EA;
27. **Sampling and Analysis Plan and Site-Specific Quality Assurance Project Plan for Supplemental Sediment and Surface Water Sampling**, received by the Department on August 21, 2009, prepared and submitted by EA;
28. **Sluiceway Sampling and Analysis Plan**, received by the Department on August 25, 2009, prepared and submitted by EA;
29. **Supplemental Sampling Analytical Results**, received by the Department on December 1, 2009, prepared and submitted by EA;
30. **Revised Remedial Alternative No. 3**, received by the Department on December 1, 2009, prepared and submitted by EA;

31. Correspondence entitled **Lincoln Lace and Braid Response to Comments**, received by the Department on February 1, 2010, prepared and submitted electronically by EA;
32. Correspondence entitled **Lincoln Lace and Braid Public Involvement**, received by the Department on February 11, 2010, prepared and submitted electronically by EA;
33. Correspondence entitled **Lincoln Lace and Braid Floodplain Revision**, received by the Department on March 23, 2010, prepared and submitted electronically by EA;
34. Correspondence entitled **Comments on Lincoln Lace & Braid clean up**, received by the Department on April 16, 2010, prepared and submitted electronically by Rhode Island Legal Services, Inc.;
35. Correspondence entitled **Lincoln Lace and Braid Public Involvement Letter**, received by the Department on April 23, 2010, prepared and submitted electronically by EA;
36. Correspondence entitled **Lincoln Lace and Braid Dioxin Sampling Summary**, received by the Department on May 20, 2010, prepared and submitted electronically by EA;
37. Correspondence entitled **Lincoln Lace and Braid Public Comments**, received by the Department on May 24, 2010, prepared and submitted electronically by EA;
38. Correspondence entitled **RE: Lincoln Lace and Braid Public Comments**, received by the Department on June 4, 2010, prepared and submitted electronically by EA;
39. Correspondence entitled **RE: Lincoln Lace and Braid Public Comments**, received by the Department on June 11, 2010, prepared and submitted electronically by EA;
40. **RIPDES Remediation General Permit Application**, received by the Department on June 9, 2010, prepared and submitted by EA;
41. **Stormwater Pollution Prevention Plan**, received by the Department on June 9, 2010, prepared and submitted by EA; and
42. **Remedial Action Work Plan**, received by the Department on June 9, 2010, prepared and submitted by EA.

Collectively, these documents define "Existing Contamination" at the Site, and fulfill the requirements of a Site Investigation Report (SIR) as described in Section 7.08 of the Remediation Regulations. In addition, according to our records, public notice was conducted to all abutting property owners and tenants, regarding the substantive findings of the completed investigation in accordance with Rules 7.07 and 7.09 of the Remediation Regulations. A public meeting was conducted in accordance with **Rhode Island General Laws (R.I.G.L.), Title 23, Health and Safety, Chapter 23-19.14, Industrial Property Remediation and Reuse Act, and 23-19.14-5 Environmental Equity and Public Participation** on March 4, 2010. The opportunity for public review and comment on the technical feasibility of the proposed remedial alternatives commenced on February 15, 2010, and the period closed on June 21, 2010. Public comments from Steven Fischbach on behalf of the Hartford Park Residents Association (HPRA) were responded to on June 11, 2010. No additional comments on the technical feasibility of the proposed remedy were received from HPRA or any other interested parties between June 11, 2010 and June 21, 2010.

On June 16, 2010, the Department received an e-mail from Steven Fischbach which did not include any additional comments on the technical feasibility of the proposed remedy, but did inquire about the process and timing for drafting and finalizing a separate agreement between the City of Providence and HPRA. On June 25, 2010, the Department responded via e-mail to Steven Fischbach's e-mail, indicating that any side agreement to cover items that would not otherwise be covered by the standard language and requirements included in a Department approved ELUR, was strictly between the City of Providence, HPRA, and himself. The Department's e-mail further stated that the proposed side agreement could be negotiated by the parties during the remedial action phase of the project and be finalized in time for the completion of the Site remedy.

The preferred remedial alternative, as stated in the abovementioned documents, consists of the following conceptual measures:

- **The encapsulation of the soils on the property with one (1) foot of certified clean fill (or one (1) foot of gravel in the area of the proposed bike path) underlain with a geotextile material.**
- **The encapsulation of the delineated area of contaminated sediments in the sluiceway with a geogrid, geotextile, and six (6) inches of 1.5 inch minus crushed stone.**
- **The maintenance and monitoring of the engineered controls through the recording of an institutional control in the form of a Department approved Environmental Land Usage Restriction (ELUR) and Soil Management Plan (SMP), followed by annual compliance certification of the ELUR.**

The Department hereby approves the SIR, with the above identified preferred remedial alternative, and shall begin review of the submitted Remedial Action Work Plan (RAWP). The RAWP review, approval, and implementation to achieve the objectives of the environmental clean-up shall be done in accordance with the following conditions:

1. Once the Department reviews the RAWP for consistency with Sections 8.0 and 9.0 of the Remediation Regulations, any written comments generated and forwarded as a result of the review(s) shall be incorporated forthwith into a revised RAWP, to be re-submitted for final approval.
2. Upon finalization of the RAWP, the Department will issue a Remedial Approval Letter, signifying Department approval. All remedial measures required by the Department shall be

implemented, in accordance with the approved schedule, to ensure all applicable exposure pathways at the site are appropriately addressed.

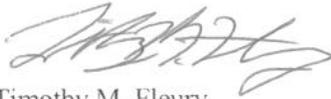
Please be advised that the Department reserves the right to require additional actions under the aforementioned Remediation Regulations at the Property should any of the following occur:

- A. Conditions at the Site previously unknown to the Department are discovered;
- B. Information previously unknown to the Department becomes available;
- C. Policy and/or regulatory requirements change; and/or
- D. Failure by the City of Providence or any future holder of any interest in the Property to adhere to the terms and conditions of the Department approved RAWP, schedule, RAL, ELUR and/or SMP for the Property.

Please note that the Department is in receipt of the RAWP and associated Remedial Action Approval Application Fee and will now begin review of the RAWP.

If you have any questions or are in need of any clarification regarding this document, please contact Timothy Fleury by telephone at (401) 222-2797 ext. 7147 or by e-mail at tim.fleury@dem.ri.gov.

Sincerely,



Timothy M. Fleury
Senior Engineer
Office of Waste Management

Authorized by,



Kelly J. Owens
Assoc. Supervising Engineer
Office of Waste Management

Cc: Jeffrey P. Crawford, Office of Waste Management
Elizabeth Stone, Office of the Director
Ronald Gagnon, Office of Customer and Technical Assistance
Martin Wencek, Office of Water Resources – Wetlands
Aaron Mello, Office of Water Resources – RIPDES
Alan Peterson, U.S. Environmental Protection Agency
Steven Fischbach, R.I. Legal Services, Inc.
Gilberta Taylor, Hartford Park Residents Association
Lisa Aurecchia, Woonasquatucket River Watershed Council
Frank Postma, EA Engineering, Science, and Technology, Inc.
Ronald Mack, EA Engineering, Science, and Technology, Inc.