



3855 North Ocoee Street, Suite 200
Cleveland, TN 37312

SENT BY FEDERAL EXPRESS

March 22, 2011

Mr. Patrick Bowe
Remediation Division
Bureau of Water Protection and Land Reuse
State of Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106

Re: Property-Specific Remedial Action Report
Newhall Street Neighborhood
34 Prospect Lane
Hamden, Connecticut 06517

Dear Mr. Bowe:

Enclosed is the Property-Specific Remedial Action Report (RAR) prepared for the property located at 34 Prospect Lane in Hamden, Connecticut. The Property-Specific RAR summarizes the remediation and restoration activities conducted at the property as required by Consent Order No. SRD-128. Remediation and restoration for this property is complete and has been implemented in compliance with the Remedy Selection Plan and the Generic RAP approved by the Connecticut Department of Environmental Protection (CTDEP).

Section 2.0 of the RAR documents property-specific construction activities that were required due to the extent of fill encountered or other field conditions. Please note that although no Property-Specific Remedial Action Plan was prepared for this property due to the delay to resolve property access issues, the remedy was completed in accordance with the approved Generic RAP and/or with CTDEP oversight and approval. Olin hereby submits this Property-Specific RAR for CTDEP approval.

Please contact me at (423) 336-4540 if you have any questions regarding this matter.

Sincerely,
OLIN CORPORATION

A handwritten signature in black ink, appearing to read 'David M. Share'.

David M. Share
Director, Environmental Remediation

cc: Mr. and Mrs. Howard Sizemore – 34 Prospect Lane, Hamden, Connecticut 06517
Curt Richards – Olin
Carrie Hunt – Olin
Nelson Walter – MACTEC
Robert Bell – CTDEP
Ray Frigon – CTDEP
Richard Pearce – Newhall Street Neighborhood Community Liaison

**PROPERTY-SPECIFIC REMEDIAL ACTION REPORT
34 PROSPECT LANE**

**NON-PUBLIC PROPERTIES
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT**

Prepared for:

Olin Corporation
Cleveland, Tennessee

Prepared by:



MACTEC Engineering and Consulting, Inc.
1090 Elm Street, Suite 201
Rocky Hill, Connecticut 06067

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March 22, 2011

MACTEC Project No.: 6107110004-55

A handwritten signature in black ink that reads "Nelson Walter".

MACTEC Electronic Signature

Nelson Walter, P.E.
Project Manager

A handwritten signature in black ink that reads "Rod Pendleton".

MACTEC Electronic Signature

Rod Pendleton, P.G.
Principal Scientist

DOCUMENT CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

David M. Share, Director, Environmental Remediation



Chief Executive Officer (or duly authorized representative)
Olin Corporation

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I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

Nelson Walter, Project Manager



MACTEC Engineering and Consulting, Inc.

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Table 2-1 Excavation Confirmation XRF Sampling Results

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Attachment A Photographs

LIST OF ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
CTDEP	Connecticut Department of Environmental Protection
MACTEC	MACTEC Engineering and Consulting, Inc.
NPP	non-public properties
Olin	Olin Corporation
RAP	Remedial Action Plan
RAR	Remedial Action Report
RSP	Remedy Selection Plan
XRF	X-ray fluorescence

1.0 INTRODUCTION

This Property-Specific Remedial Action Report (RAR) was prepared by MACTEC Engineering and Consulting, Inc. (MACTEC) on behalf of Olin Corporation (Olin) for the property located at 34 Prospect Lane in Hamden, Connecticut. This Property-Specific RAR was prepared based on information obtained during remediation activities conducted at the property during the 2010 construction season. This document provides information about the remediation activities completed for the property, which are required by Consent Order SRD-128 entered into by Olin, the Town of Hamden, the Regional Water Authority, the State Board of Education, and the State of Connecticut Department of Environmental Protection (CTDEP). The Consent Order requires Olin to excavate and remove fill material up to 4 feet below ground surface (bgs) from approximately 230 residential properties within the Consent Order boundary.

Section 1 of this report provides a summary of site history and a general description of the remedy process for the Newhall Street Neighborhood. Section 2 of this report describes the construction activities conducted at 34 Prospect Lane.

1.1 REGULATORY STATUS

In April 2003, the CTDEP issued a Consent Order to Olin, the Town of Hamden, South Central Connecticut Regional Water Authority, and the State Board of Education (CTDEP, 2003). The Consent Order requires Olin to investigate and remediate the Non-Public Properties (NPP) within the Consent Order boundary of the Newhall Street Neighborhood.

1.2 DESCRIPTION OF REMEDY PROCESS

In October 2007, a Final Remedy Selection Plan (RSP) was approved and issued by the Commissioner of the CTDEP (CTDEP, 2007). The remedy for the NPP within the Consent Order boundary is summarized below:

- Excavation of fill within the top 4 feet;
- Disposition of excavated material at authorized off-site facilities;
- Backfilling of excavated areas with clean soil; and
- Restoration of existing features including landscaping, patios, fencing, driveways, etc. that are disturbed during construction activities.

The Final Design - Generic Remedial Action Plan (RAP) (MACTEC, 2008), was approved by the CTDEP and serves as the basis for remedial action activities within the NPP. The Final Design - Generic RAP details remedial construction activities including excavation of fill to a depth of up to four feet, backfilling excavations, disposition of fill and debris, and restoration of disturbed areas. Detailed plans and specifications regarding the remediation are contained in the Generic RAP and other project plans which have been approved by the CTDEP. The Final Design - Generic RAP and other plans are available at the Town of Hamden Miller Public Library located at 290 Dixwell Avenue, and on the CTDEP website at: <http://www.newhallinfo.org>.

The Final Design-General RAP require that prior to implementing the approved remedial solution, a Property-Specific RAP be prepared for each property owner and submitted to the CTDEP for approval. The purpose of the Property-Specific RAP is to provide the homeowner with information regarding the planned construction activities, temporary relocation requirements (if necessary), access provisions, an estimated time table to complete the planned work, and a description of plans to restore the property to existing conditions. Because the property owner did not provide access to complete an inventory prior to the initiation of excavation activities, no Property-Specific RAP was prepared for 34 Prospect Lane. The property owner signed an Access and Restoration Agreement that allowed Olin to complete excavation activities as required based on observations made in the field and to restore the property to existing conditions.

2.0 PROPERTY-SPECIFIC CONSTRUCTION ACTIVITIES

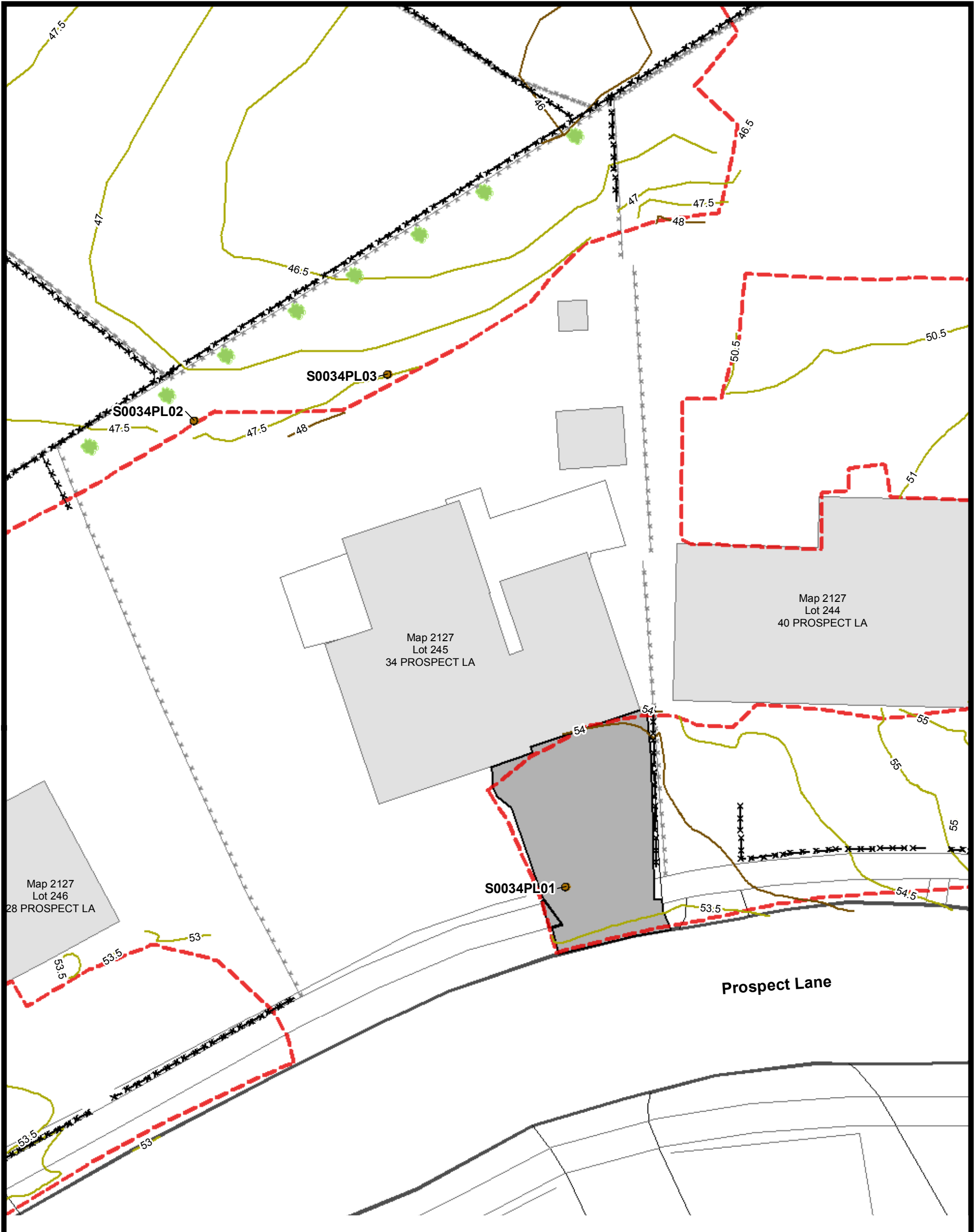
During the 2010 construction season, Olin completed the excavation of fill material to a depth of 4 feet bgs, backfill, and restoration of the property in accordance with the Final Design - Generic RAP. Based on observations made during construction activities, there is no fill present on the property at depths greater than 4 feet bgs. Figure 2-1 shows the areas where excavation occurred on the property and the locations of excavation confirmation samples. Excavation confirmation samples were collected in accordance with Section 3.2.3 – Confirmatory Sampling of the Final Design - Generic RAP, including adherence to the sampling frequency requirements. X-ray fluorescence (XRF) excavation confirmation sampling results are presented in Table 2-1. As indicated in Table 2-1, all confirmation sampling results indicate total lead concentrations less than the criteria of 400 mg/kg approved by CTDEP in the Final Design - Generic RAP.

Photographs of construction activities and the restored property are presented in Attachment A.

3.0 REFERENCES

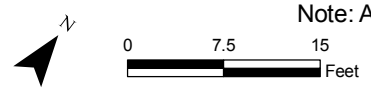
- CTDEP, 2003. Order No. SRD-128, State Of Connecticut vs. Town Of Hamden, South Central Connecticut Regional Water Authority, State Board Of Education, and Olin Corporation. State of Connecticut Department of Environmental Protection, April 16, 2003.
- CTDEP, 2007. Remedy Selection Plan, Newhall Street, Neighborhood Remediation Project. State of Connecticut Department of Environmental Protection, October 2007
- MACTEC, 2008. Final Design - Generic Remedial Action Plan, Non-Public Properties, Newhall Street Neighborhood, Hamden, Connecticut. MACTEC Engineering and Consulting, Inc., August 19, 2008.

FIGURES



- Legend**
- Excavation Confirmation Sample
 - Limits of Excavation
 - Final Elevation Contour (2-ft interval)
 - Final Elevation Contour (0.5-ft interval)
 - New Shrub
 - New Tree
 - New Asphalt Driveway/Sidewalk
 - New Concrete Driveway/Sidewalk
 - *** New Fence

Note: All grass areas disturbed by excavation were restored with sod and/or seed/mulch.



Prepared/Date: CHL 02/01/11
 Checked/Date: DRP 02/01/11

TABLES

**TABLE 2-1
EXCAVATION CONFIRMATION XRF SAMPLING RESULTS**

**34 PROSPECT LANE - NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT**

Location ID	Location Type	Field Sample ID	Sample Date	Top Depth (ft,bgs)	Bottom Depth (ft,bgs)	Parameter	Result	Final Qualifier	Unit of Measure
S0034PL01	PES	S0034PL-SON0101EX	09-Sep-10	1	1	Lead	50	U	MG/KG
S0034PL02	PES	S0034PL-SON0202EX	13-Sep-10	2	2	Lead	50	U	MG/KG
S0034PL03	PES	S0034PL-SON0302EX	13-Sep-10	2	2	Lead	316		MG/KG
S0034PL04	PES	S0034PL-SON0402EX	15-Sep-10	2	2	Lead	79		MG/KG

Notes: bgs - below ground surface
ft - feet
KG - kilograms
MG - milligrams
PEB - sample from bottom of excavation
PES - sample from perimeter of excavation
U - not detected at a concentration above the reporting limit
XRF - x-ray fluorescence

ATTACHMENT A

PHOTOGRAPHS



View looking east from adjacent property of extent of excavation in back yard of 34 Prospect Lane.



Looking west from backyard, view of restored landscaping and newly-installed fence.



View looking northwest from across Prospect Lane of excavation in the driveway area.



View looking northwest from across Prospect Lane of restored driveway area.