



Infrastructure · Water · Environment · Buildings

ARCADIS of New York, Inc.  
855 Route 146  
Suite 210  
Clifton Park  
New York 12065  
Tel 518.250.7300  
Fax 518.250.7301

**Transmittal Letter**

To:  
Ms. Ruth Curley  
NYSDEC  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233

Copies:  
Charles Trione, Lockheed Martin  
James Zigmont, CDM  
Greg Rys, NYSDOH  
Dale Truskett, Lockheed Martin  
Kay Armstrong, Armstrong & Assoc.  
Mary Morningstar, Lockheed Martin  
Rick Zigenfus, ConMed  
Glenda Smith, Lockheed Martin  
File

From:  
Lisa Collins

Date:  
January 9, 2013

Subject:  
4Q12 Corrective Action Progress Report

ARCADIS Project No.:  
NJ001026.0001

**We are sending you:**

Attached

Under Separate Cover Via \_\_\_\_\_ the Following Items:

- Shop Drawings
- Prints
- Other:

- Plans
- Samples

- Specifications
- Copy of Letter

- Change Order
- Reports

Copies	Date	Description	Action*
1	1/9/13	Fourth Quarter 2012 Corrective Action Progress Report, Order on Consent, Index Number: 6-20080321-5, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York	AS

**Action\***

- A Approved
- AN Approved As Noted
- AS As Requested
- Other:
- CR Correct and Resubmit
- F File
- FA For Approval
- Resubmit \_\_\_\_\_ Copies
- Return \_\_\_\_\_ Copies
- Review and Comment

**Mailing Method**

- U.S. Postal Service 1<sup>st</sup> Class
- Certified/Registered Mail
- Other: Email
- Courier/Hand Delivery
- United Parcel Service (UPS)
- FedEx Priority Overnight
- FedEx Standard Overnight
- FedEx 2-Day Delivery
- FedEx Economy

**Comments:**

---



---



---

**Lockheed Martin Corporation**

**Fourth Quarter 2012  
Corrective Action Progress Report**

Order on Consent

Index Number: 6-20080321-5

Solvent Dock Area

Former Lockheed Martin Facility

Utica, New York

January 2013



A handwritten signature in black ink that reads "Daniel Zuck".

---

Daniel A. Zuck  
Task Manager

A handwritten signature in blue ink that reads "Jeffrey J. Bonsteel".

---

Jeffrey J. Bonsteel  
Project Manager

**Fourth Quarter 2012 Corrective  
Action Progress Report**

Order on Consent  
Index Number: 6-20080321-5  
Solvent Dock Area  
Former Lockheed Martin Facility  
Utica, New York

Prepared for:  
Lockheed Martin Corporation

Prepared by:  
ARCADIS U.S., Inc.  
10 Friends Lane  
Suite 200  
Newtown  
Pennsylvania 18940  
Tel 267.685.1874  
Fax 267.685.1801

Our Ref.:  
NJ001026.0001

Date:  
January 2013

<b>Purpose</b>	<b>1</b>
<b>1. Summary of Work Completed During the Reporting Period</b>	<b>1</b>
<b>2. Summary of Findings Made During the Reporting Period</b>	<b>2</b>
<b>3. Summary of Changes Made During the Reporting Period</b>	<b>2</b>
<b>4. Summary of Contacts Made with Representatives of the Local Community and Public Interest Groups During the Reporting Period</b>	<b>3</b>
<b>5. Summary of Problems Encountered During the Reporting Period</b>	<b>3</b>
<b>6. Changes in Personnel Conducting or Managing the Corrective Measures During the Reporting Period</b>	<b>3</b>
<b>7. Summary of Work Planned for the Next Reporting Period</b>	<b>3</b>

## ACRONYMS

ERD	enhanced reductive dechlorination
GCTS	groundwater collection and treatment system
ICM	interim corrective measure
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
SPDES	State Pollutant Discharge Elimination System
SSDS	sub-slab depressurization system

## **Purpose**

On behalf of Lockheed Martin Corporation (Lockheed Martin), ARCADIS has prepared this *Fourth Quarter 2012 Corrective Action Progress Report* for the Solvent Dock Area (“the Site”) at the former Lockheed Martin French Road facility in Utica, New York. This report is required by the October 3, 2008 New York State Department of Environmental Conservation (NYSDEC) “Order on Consent” (“the Order”) (CO 6-20080321-5), and in Attachment 3-1 (“Corrective Action Requirements”), Section B.8, of the Order. The following sections summarize activities and information for the fourth quarter of 2012 (October, November, and December 2012).

### **1. Summary of Work Completed During the Reporting Period**

The following activities were completed during the reporting period:

- Sampled effluent from the groundwater collection and treatment system (GCTS) for compliance with the existing State Pollutant Discharge Elimination System (SPDES) permit (NY-012-1894); results to be documented in the monthly Discharge Monitoring Reports;
- Performed ongoing operation and maintenance of the interim corrective measure (ICM) for groundwater (i.e., the GCTS);
- Completed annual NYSDEC Division of Water inspection of GCTS; NYSDEC issued letter of compliance;
- Performed ongoing operation and maintenance of the ICM for sub-slab soil gas (i.e., the sub-slab depressurization system, SSDS);
- Submitted the *Third Quarter 2012 Corrective Action Progress Report* to NYSDEC/NYSDOH, and added the document to the public repository (at the Utica Library);
- Submitted third quarter groundwater monitoring data to NYSDEC;
- Completed soil vapor probe installation and sampling activities on adjacent, off-site property (Indium); draft data and tabulated data submitted to NYSDEC;
- Continued development of the pre-design summary report, including results of the enhanced reductive dechlorination (ERD) pilot test;
- Continued development of amendment to *Feasibility Study Report* per results of ERD pilot test;

- Completed field activities in accordance with the NYSDEC-approved *Evaluation Plan for SSDS Performance in Area of VMP-7A* to NYSDEC; reviewed data and submitted *Evaluation Report on SSDS Performance in Area of VMP-7A*;
- Completed the annual (fourth quarter) groundwater sampling in accordance with the *Interim Groundwater Monitoring Program*; these data will be presented as part of the *Annual 2012 Groundwater Monitoring Report*; and
- Continued monthly project calls with NYSDEC/NYSDOH.

## **2. Summary of Findings Made During the Reporting Period**

The following significant findings were made during the reporting period that varied from routine data collection parameters and information.

1.) Based on limitations on the ability to inject, as well as limits in distribution of the injectate observed during the ERD pilot test, ERD is determined to be not feasible for full-scale implementation at Areas 1 and 2 of the FNPD. As noted, preparation of a report presenting results of the FNPD pre-design investigation including the pilot test and a report amending the FS Report is in progress.

2.) Soil vapor sampling was performed at three soil vapor monitoring points on the abutting Indium Corporation property. Preliminary data have been shared with Indium and NYSDEC/NYSDOH; a report summarizing results and findings is in preparation.

3.) Vacuum monitoring completed in the vicinity of vapor monitoring point VMP-7A of the SSDS indicates the need for installation of at least one additional extraction sump. A pilot test is planned for further evaluation of upgrade needs, to be presented in a future work plan.

## **3. Summary of Changes Made During the Reporting Period**

No significant changes to the *Corrective Measures Implementation Plan* were made during the reporting period.

#### **4. Summary of Contacts Made with Representatives of the Local Community and Public Interest Groups During the Reporting Period**

As referenced in Section 1, the *Third Quarter 2012 Corrective Action Progress Report* submitted to NYSDEC/NYSDOH has been added to the public repository (at the Utica Library).

#### **5. Summary of Problems Encountered During the Reporting Period**

No significant problems were encountered during the reporting period. Lockheed Martin's Utica project website is under renovation and although a number of documents are now viewable, the renovation is not yet complete.

#### **6. Changes in Personnel Conducting or Managing the Corrective Measures During the Reporting Period**

No personnel changes occurred among those conducting or managing the corrective measures at the Site during the reporting period.

#### **7. Summary of Work Planned for the Next Reporting Period**

The following activities are scheduled for completion during the first quarter 2013 reporting period:

- Continue operation and maintenance of the GCTS, including effluent sampling for compliance with the existing SPDES permit (NY-012-1894) and quarterly sampling and monitoring; data to be provided as part of the monthly Discharge Monitoring Reports, quarterly system O&M summaries, and the *Annual 2013 GCTS Operation, Maintenance, and Monitoring Report*;
- Continue operation and maintenance of the SSDS, including quarterly SSDS sampling and monitoring; data to be provided as part of the quarterly system O&M summaries and the *Annual 2013 SSDS Operation, Maintenance, and Monitoring Report*;
- Conduct the first quarterly groundwater sampling event for 2013 in accordance with the draft *Interim Groundwater Monitoring Program*; data to be provided as part of quarterly data summaries and the *Annual 2013 Groundwater Monitoring Report*;

- Complete annual sub-slab vapor and indoor air sampling event; data to be provided as part of the 2013 *Annual Vapor Intrusion Study Report for the Solvent Dock Area*;
- Complete fourth quarter groundwater data summary;
- Complete *Annual 2012 Groundwater Monitoring Report*;
- Complete first quarter groundwater data summary;
- Complete *Annual 2012 SSDS Operation, Maintenance, and Monitoring Report*;
- Complete *Annual 2012 GCTS Operation, Maintenance, and Monitoring Report*;
- Continue to discuss the elements of a future Site Management Plan with ConMed and work on revisions to the current draft Plan;
- Complete pre-design investigation report, including results of the ERD pilot test;
- Complete amendment to *Feasibility Study Report*;
- Submit report on soil vapor monitoring at Indium property;
- Submit work plan to further evaluate SSDS performance enhancements in area of VMP-7A; and
- Continue monthly project status calls with NYSDEC/NYSDOH.