



Infrastructure · Water · Environment · Buildings

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Transmittal Letter

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From:
Lisa Collins

Date:
July 21, 2011

Subject:
2Q11 Corrective Action Progress Report

ARCADIS Project No.:
NJ001026.0001

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1	7/21/11	Second Quarter 2011 Corrective Action Progress Report, Order on Consent, Index Number: 6-20080321-5, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York	AS

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Comments:

Lockheed Martin Corporation

**Second Quarter 2011
Corrective Action Progress Report**

Order on Consent

Index Number: 6-20080321-5

Solvent Dock Area

Former Lockheed Martin Facility

Utica, New York

July 2011



Jeffrey J. Bonsteel
Associate Project Manager

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Project Manager

**Second Quarter 2011
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:
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Our Ref.:
NJ001026.0001

Date:
July 2011

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ACRONYMS

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
WWTP	wastewater treatment plant

Purpose

On behalf of Lockheed Martin Corporation (Lockheed Martin), ARCADIS has prepared this *Second Quarter 2011 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 second quarter of 2011 (April, May, and June 2011).

1. Summary of Work Completed During the Reporting Period

The following activities were completed during the reporting period:

- Continued revisions to Draft Site Management Plan (in progress);
- 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);
- Performed ongoing operation and maintenance of the interim corrective measure (ICM) for groundwater (i.e., the GCTS);
- NYSDEC Division of Water completed its annual SPDES inspection of the GCTS;
- Performed ongoing operation and maintenance of the ICM for sub-slab soil gas (i.e., the sub-slab depressurization system, SSDS);
- Continued field work associated with the *Work Plan for Final Closure Activities of the Wastewater Treatment Plant*, which includes monthly inspections of the wastewater treatment plant (WWTP) basement for the presence of water; responded to and removed leaking sump pump and associated oil/water mixture from the eastern sump of the WWTP;
- Responded to observance of oil in manhole MH-2 of the GCTS; determined that an existing submersible pump was faulty and had released lubrication oil into the manhole (yet not processed through the GCTS, as the oil was floating and not drawn down to or below the level of the manhole pumps); evacuated oil/water mixture from manhole and disposed of off-site; replaced faulty pump in MH-2, as well as similarly aged pump in manhole MH-1 as a precaution;

- Submitted to NYSDEC/NYSDOH the *First Quarter 2011 Corrective Action Progress Report*, added the document to the public repository (at the Utica Library), and uploaded the document to the public Lockheed Martin website;
- Completed installation and start-up activities associated with planned SSDS and GCTS upgrades as the ICM;
- Received approval from NYSDEC Division of Water to add newly-installed manhole MH-3 and its associated collection trench as an influent source to the GCTS (MH-3 was subsequently added as influent source);
- Received approval from NYSDEC Division of Water for inclusion of water treatment chemical as part of operations of the GCTS;
- Submitted the *Annual Vapor-Intrusion Study Report for the Solvent Dock Area* to NYSDEC and NYSDOH; received comments from NYSDEC on report in June 8, 2011 letter (currently responding to comments);
- Submitted the *Former Northern Perimeter Ditch Off-Site Vapor Intrusion Pathway Evaluation Work Plan* (in April 2011) to NYSDEC; received comments from NYSDEC in May 2011 ; further work is pending off-site access approval;
- Replaced six soil-vapor probes along northern perimeter of the site (in area of the Former Northern Perimeter Ditch) due to high water elevations; completed soil-vapor sampling of the six replacement probes; submitted preliminary analytical data to NYSDEC and NYSDOH for review and discussion;
- Provided summary of contact with Indium Corporation to NYSDEC regarding attempts to negotiate access for future off-site soil-vapor sampling activities;
- Received comments from NYSDEC on the *Post-Indicator Valve Summary Report*, summarizing ConMed's post-indicator valve repair activities completed to date (no additional action by Lockheed Martin required);
- Submitted the *Feasibility Study Report* for the Former Northern Perimeter Ditch, including a *Pre-Design Work Plan* (included as Appendix C of the *Feasibility Study Report*);

- Preparing Feasibility Study Report data in Electronic Data Deliverable format; and
- Initiated monthly project calls with NYSDEC/NYSDOH.

2. Summary of Findings Made During the Reporting Period

Data were received during the reporting period for soil-vapor sampling along the northern perimeter of the site (completed in May 2011 as part of the *Former Northern Perimeter Ditch Off-Site Vapor Intrusion Pathway Evaluation Work Plan*). Data were transmitted to NYSDEC and NYSDOH for discussion, and will be submitted as part of a summary report to NYSDEC/NYSDOH following completion of remaining activities identified in the *Former Northern Perimeter Ditch Off-Site Vapor Intrusion Pathway Evaluation Work Plan*.

During a routine operation and maintenance inspection of the WWTP on June 3, 2011, an oily-sheen was observed within the eastern sump of the WWTP. In response, Lockheed Martin investigated the source of this oil, determining it to be from an old sump pump used presumably during former WWTP operations. The faulty pump was removed, and the oil and water was removed from the sump. Lockheed Martin communicated these actions to NYSDEC on June 6, 2011, and confirmed that the observation did not constitute a reportable spill, as the sump is cast concrete and does not provide any pathways to the waters of New York.

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 *First Quarter 2011 Corrective Action Progress Report* submitted to NYSDEC/NYSDOH has been added to the public repository (at the Utica Library). This document has also been uploaded to the public Lockheed Martin website.

Lockheed Martin briefed ConMed personnel on results of the *Annual Vapor-Intrusion Study Report*.

5. Summary of Problems Encountered During the Reporting Period

As noted above, an oily-sheen was identified within manhole MH-2 of the GCTS. Groundwater collection from MH-2 was suspended while the manhole was evacuated, cleaned, and the source of impacts identified. The manhole is now operational.

An oil-water mixture was identified within the eastern sump of the WWTP. As noted above, the source of the oil was confirmed, and the material was removed and the faulty pump removed from the sump.

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 third quarter 2011 reporting period:

- Continue operation and maintenance of the GCTS, including effluent sampling for compliance with the existing SPDES permit (NY-012-1894);
- Continue operation and maintenance of the SSDS, including quarterly SSDS sampling and monitoring;
- Submit revised Operation and Maintenance Manuals for the SSDS and GCTS incorporating system upgrades to NYSDEC/NYSDOH;
- Submit revised summary report on annual vapor intrusion monitoring event to NYSDEC/NYSDOH, addressing comments received from NYSDEC/NYSDOH on the initial submittal of that report;
- Continue to discuss the elements of a future Site Management Plan with ConMed and work on revisions to the current draft Plan;
- Conduct an Arc Flash Study of the GCTS and SSDS;



**Second Quarter 2011
Corrective Action
Progress Report**

Solvent Dock Area
Former Lockheed Martin
Facility, Utica, New York

- Complete off-site soil-vapor sampling and submit report on soil-vapor monitoring at Former Northern Perimeter Ditch (pending off-site access);
- Collaborate with NYSDEC toward determination of approach to preparing Statement of Basis; and
- Continue monthly project status calls with NYSDEC/NYSDOH.