



Infrastructure, environment, buildings

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Transmittal Letter

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From: Lisa Collins

Date: July 14, 2010

Subject: 2Q10 Corrective Action Progress Report

ARCADIS Project No.: NJ001017.0001

We are sending you:

[X] Attached

[] Under Separate Cover Via _____ the Following Items:

[] Shop Drawings

[] Plans

[] Specifications

[] Change Order

[] Prints

[] Samples

[] Copy of Letter

[X] Reports

[] Other:

Table with 4 columns: Copies, Date, Description, Action*. Row 1: 1, 7/14/10, Second Quarter 2010 Corrective Action Progress Report, Order on Consent, Index Number: 6-20080321-5, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York, AS

Action*

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Comments:

Lockheed Martin Corporation

**Second Quarter 2010
Corrective Action Progress Report**

Order on Consent

Index Number: 6-20080321-5

Solvent Dock Area

Former Lockheed Martin Facility

Utica, New York

July 2010



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**Second Quarter 2010
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

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Our Ref.:
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Date:
July 2010

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ACRONYMS

CMS	Corrective Measures Study
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
SSDS	sub-slab depressurization system
VOCs	volatile organic compounds
WWTP	wastewater treatment plant

Purpose

On behalf of Lockheed Martin Corporation (Lockheed Martin), ARCADIS has prepared this *Second Quarter 2010 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 2010 (April, May and June 2010).

1. Summary of Work Completed During the Reporting Period

The following activities were completed during the reporting period:

- § Provided to NYSDEC and NYSDOH the analytical data from samples collected at an indoor air, outdoor air, and sub-slab soil-vapor location at the former guard house, in association with continued investigations at the former northern perimeter ditch. Discussions with NYSDEC and NYSDOH confirm that no vapor intrusion issues exist at the former guard house;
- § Revised 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 permit (NY-012-1894);
- § Performed ongoing operation and maintenance of the interim corrective measure (ICM) for groundwater (i.e., the GCTS);
- § Performed ongoing operation and maintenance of the ICM for sub-slab soil gas (i.e., the SSDS);
- § Completed inventory of Site piezometers and monitoring wells;
- § Submitted to NYSDEC/NYSDOH the *Former Northern Perimeter Ditch Supplemental Investigation Work Plan*;
- § Initiated field work associated with the *Former Northern Perimeter Ditch Supplemental Investigation Work Plan*;
- § Submitted to NYSDEC/NYSDOH the *Work Plan for Final Closure Activities of the Wastewater Treatment Plant*, added the document to the public repository

(at the Utica Library), and uploaded the document to the public Lockheed Martin website;

- § Initiated field work associated with the *Work Plan for Final Closure Activities of the Wastewater Treatment Plant*;
- § Submitted to NYSDEC/NYSDOH the *First Quarter 2009 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; *and*
- § Completed procurement for installation of SSDS and GCTS upgrades as ICM.

2. Summary of Findings Made During the Reporting Period

Initial data collected as part of the former northern perimeter ditch supplemental investigation were previously discussed with NYSDEC and NYSDOH. Specifically, sampling of the indoor air and sub-slab soil gas within the former guard house at the former Lockheed Martin facility in Utica, New York was expedited to allow completion of the sampling in advance of the end of the heating season.

Evaluation of the data indicated that vapor intrusion is not occurring, that is, there is no impact to indoor air attributable to migration of impacted soil vapor into the former guard house. This evaluation is consistent with the data and conclusions related to past sampling associated with the Corrective Measures Study Report (March 2009).

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

On May 17, 2010, Lockheed Martin held an informational meeting with representatives of ConMed Corporation (ConMed, site occupant) regarding the status of vapor intrusion and mitigation efforts at their facility.

As presented in Section 1, several project documents were added to the public repository (at the Utica Library) and uploaded to the public Lockheed Martin website.

No other contacts with representatives of the local community or public interest groups were made during the reporting period.

5. Summary of Problems Encountered During the Reporting Period

On June 24, 2010, Lockheed Martin submitted a *Report of Noncompliance Event* with the routine *Discharge Monitoring Report* for May 2010. The pH analysis of a sample collected from the treatment system effluent during the regular monthly sampling event that occurred on May 5, 2010 indicated a value of 7.8, which is within the permit limit of 8.5. In addition to the permit required monthly sampling of May 5, on May 14, Lockheed Martin collected an additional sample from the effluent to the treatment system and analyzed it for pH. The additional sampling on May 14 was performed to investigate an observed relative increase in pH values over the past few reporting periods. As part of the investigation, the pH was measured using two different pH meters. The two measurements were taken only a few minutes apart.

The two additional pH measurements collected on May 14 indicated a pH in the system effluent of 7.97 and 8.62, respectively. The pH value of 8.62, measured by one of the pH meters, is above the permit limitation of 8.5. As such, a report of non-compliance was required for submittal.

Another pH measurement having a value of 7.2 was collected on June 3, 2010. It was Lockheed Martin's opinion that the pH measurement of 8.62 on May 14 was an anomaly, and not indicative of a treatment system concern.

On the morning of May 21, 2010, boring location PZ-37 associated with the former northern perimeter ditch investigation was pre-cleared using a Utilivac (air knife) to a depth of approximately 5 feet. The location was previously cleared by ConMed, and a ground-penetrating radar survey of the area had been completed (in accordance with Lockheed Martin protocol). The local one-call center (DigsafeNY) had also been called, although the location of this boring (on private property) prevented utility mark-out. During drilling activities, an unknown water line was hit and damaged. The water line, which provided water service to the maintenance building, was subsequently shut off. On June 16, 2010, the location of the water line damage was excavated and repaired, and is currently fully operational.

No other significant problems were encountered during the reporting period.

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.

Mr. Paul Ragusa, who was the primary ConMed contact for Lockheed Martin, is no longer employed by the firm. Mr. Richard Zigenfus of ConMed has taken on the role as contact between Lockheed Martin and ConMed.

7. Summary of Work Planned for the Next Reporting Period

The following activities are scheduled for completion during the third-quarter-2010 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;
- § Conduct follow up investigations at former northern-perimeter ditch and submit summary report to NYSDEC;
- § Complete WWTP closure activities and submit summary report to NYSDEC;
- § Provide technical support as needed to excavations associated with the repair of fire-suppression-post indicator valves conducted by ConMed personnel;
- § Revise and resubmit appropriate components of the *Site Management Plan* and associated documents based on NYSDEC and NYSDOH comments; and
- § Prepare for and begin implementation of SSDS and GCTS design upgrades.