

**2016 Annual Site
Management Report**

**APPENDIX C:
Cover System
Performance Report**

**Former Lockheed Martin
French Road Facility
Utica, New York**



Prepared for:

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ABBREVIATIONS & ACRONYMS

ConMed	ConMed Corporation
FNPD	Former Northern Perimeter Ditch
Lockheed Martin	Lockheed Martin Corporation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	operation, monitoring, and maintenance
P.E.	Professional Engineer
PIV	post-indicator valve
SB	Statement of Basis
SMP	Site Management Plan
SSDS	sub-slab depressurization system
Stantec	Stantec Consulting Services, Inc.

1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) has prepared this Cover System Performance Report (Report) as an Appendix to the *2016 Annual Site Management Report* for the Former Lockheed Martin Corporation (Lockheed Martin) French Road Facility (Site) at 525 French Road, Utica, New York. The activities described herein satisfy requirements of the *Draft Site Management Plan (Draft SMP; Stantec, 2016a)*. The cover system performance from January through December 2016 is summarized in the following sections.

2.0 COVER SYSTEM DESCRIPTION AND REMEDIAL OBJECTIVES

The existing cover system is one of the engineering controls required by the New York State Department of Environmental Conservation (NYSDEC) in the *Final Statement of Basis, Corrective Measures Selection, Former Lockheed Martin-French Road Facility, Operable Units 01 and 02, Site No. 633036A, EPA ID No. NYD000521971, Utica, Oneida County*, issued by NYSDEC on March 31, 2015 (SB; NYSDEC, 2015a). The overall intent of the cover system is to prevent direct contact with, exposure to, or ingestion of potential residual contaminants at the Site. This is achieved through the cover materials currently in place on the eastern portion of the Site (see Figure C-1). The limits for the area of Site cover (22.43 acres) are defined on the draft environmental easement survey plan prepared by Thew Associates and dated June 14, 2016. Note that the environmental easement survey plan and related materials are currently under review by NYSDEC and are therefore still considered “draft.” The cover system elements include ConMed Corporation (ConMed) buildings, pavement, sidewalks, and soil/vegetative cover. NYSDEC’s SB provides that the existing Site cover is acceptable, including current landscaped/vegetated areas.

Below is an excerpt from the SB that provides the background and purpose of the cover system:

“A site cover consisting of buildings, pavement, and sidewalks currently exists over the vast majority of the eastern portion of the site (approximately 21 acres (40%) of the site). It will be maintained to allow for commercial use of the site. Any site redevelopment will maintain a site cover, which may consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where a soil cover is required it will be a minimum of one foot of soil, meeting the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d) for commercial use. The soil cover will be placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6 NYCRR Part 375-6.7(d).

The western portion of the site (approximately 10 acres) remains undeveloped and has not been used for site operations. This area of the site was evaluated using field inspection, geophysical techniques and some limited sampling that shows the area achieves unrestricted use SCOs for VOCs, SVOCs, metals and PCBs. Based on the results, the intent is to separate this parcel from the site after the Statement of Basis is finalized.

The center of the site (approximately 24 acres) consists of a partially wooded area and paved parking area. Geophysics, test pits and surface sampling have been performed. One isolated area exceeds commercial SCOs and that area will be addressed by excavation. Upon post-excavation confirmation of commercial SCOs, this portion of the site will achieve commercial SCOs and maintenance of a cover system will not be required.” (NYSDEC, 2015a)

3.0 INSPECTION

On October 4, 2016 Peter Nielsen, Professional Engineer (P.E.) of Stantec, conducted an inspection of the Site cover system area. Mr. Richard Zigenfus, EHS Manager for ConMed, served as an escort during the inspection and provided input on various conditions around the Site. The purpose of the inspection was to review and document Site conditions to confirm cover conditions are being maintained in accordance with the SB (NYSDEC, 2015a) and *Draft SMP* (Stantec, 2016a). An Annual Sitewide Inspection Form was completed along with a photolog to document conditions found during the inspection. These materials are provided in Appendix C-1.

The inspection focused on the exterior areas at the perimeter of the main ConMed building to observe conditions and portions of the cover system that were undergoing maintenance or other changes, if any. Conditions of vegetative cover were noted. Although none was identified, the inspection investigated the potential presence of disturbed or exposed soils. A special emphasis was put on the northern side of the building, including the former Solvent Dock area and the Former Northern Perimeter Ditch (FNPD). These are locations where remedial investigation and corrective measures have historically been or are currently focused.

The following are some important items noted during the inspection:

1. Asphalt pavement condition and management – Overall the pavement across the Site is in good condition. Minor cracking and settlement are present to a limited extent but are considered normal and to be expected with asphalt. Nothing unusual was noted. Mr. Zigenfus indicated that ConMed is planning to re-pave the south, east, and west side roads/parking areas over the next few years, depending on availability of funding. Currently these projects are on hold. Planning and coordination with ConMed and its paving contractor is recommended to protect the monitoring wells and avoid ponding issues.
2. Landscaping and maintenance of vegetated areas – The turf grass and landscaping of the Site are well maintained. Grass appeared healthy and is routinely mowed. Plantings and shrubs are present mainly along the front (south side) of the ConMed facility. Most of the planting beds are mulched over the top of landscaping fabric as a weed barrier. The area behind the pole barn (known as Area 2) is the location where additional subsurface investigation borings were conducted by Stantec during late 2015 and 2016. The vegetative cover was disturbed to some degree during these activities however it appears to have adequately recovered.
3. Firemain repair – On December 18, 2015 ConMed experienced a firemain leak in the parking area located near the southeast corner of the building (see Photo Log, locations 27 and 28). Excavation was required to repair the leak and due to the season and unavailability of asphalt, concrete was used to restore the pavement.
4. Sidewalks – Most of the sidewalks around the facility are concrete. Exceptions include the use of concrete pavers at the main entrance on the building's south side and at

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employee entrances on the west and east sides of the facility. Some limited remnants of concrete sidewalks with asphalt overlay remain at the outskirts of the Site. Overall sidewalk conditions are good. Handicap ramps and curb replacement projects were implemented on the south side of the main building at both western and eastern ends. Construction activities at the eastern location were nearing completion at the time of the inspection (see photolog in Appendix C-1). The construction involved only shallow excavations.

The interior of the building has concrete slabs with various floor coverings, and its integrity is maintained as a normal part of ConMed's operations. According to Mr. Zigenfus, there has not been any significant intrusive work through the existing slabs. Consequently, there was no need to conduct a walkthrough of the building interior.

Furthermore, the routine and non-routine operation, monitoring, and maintenance (OM&M) activities for the sub-slab depressurization system (SSDS) require work inside the building, during which floor conditions are observed. In the eastern portion of the building the routine vacuum monitoring conducted for the SSDS indirectly monitors the integrity of the floor system. Potential cracks or other openings in the floor can affect the ability to maintain sub-slab vacuum levels. If the sub-slab vacuum levels were to decrease noticeably, further investigation of the cause would include inspecting affected areas of the facility floors.

A soil vapor intrusion monitoring program was conducted in March 2016 in the western portion of the building as required by NYSDEC and NYSDOH. A work plan providing the basis and direction for the installation and sampling of the additional vapor monitoring points was submitted to NYSDEC and NYSDOH for review on September 8, 2015 (Stantec, 2015); the work plan was approved on September 21, 2015 (NYSDEC, 2015b). As described in the report dated July 20, 2016 (Stantec, 2016b), the conclusion of the study was that no mitigation or further monitoring was warranted in this portion of the building. The report was approved on September 22, 2016 (NYSDEC, 2016). Decommissioning of the western building vapor points was completed on January 3, 2017 and a summary of the work was submitted to NYSDEC/NYSDOH on January 24, 2017 (Stantec, 2017).

4.0 COVER SYSTEM PERFORMANCE RESULTS

Based on the October 4, 2016 inspection and results of routine OM&M activities conducted at the ConMed facility, the existing Site cover system, as defined in the SB and discussed in this Report, is being properly maintained and is performing satisfactorily.

5.0 2017 GOALS AND RECOMMENDATIONS

The information presented in this Report indicates that the cover system operated as intended during the reporting period. Continued cover system performance activities for 2017 are described in the sections below.

5.1 GOALS

The cover system remedial and operational goals remain unchanged from those noted in Section 2.0. The cover system will continue to be inspected annually.

5.2 RECOMMENDATIONS

Our review and inspection of the cover system for the 2016 reporting period indicates that the system successfully mitigated direct contact with, exposure to, or ingestion of potential residual contaminants at the Site. Recommendations for the next reporting period (January-December 2017) include continued communication between ConMed, Lockheed Martin, and Lockheed Martin's performing contractor on any ground-intrusive site work planned for 2017, to allow for timely documentation of changes to the cover system.

6.0 REFERENCES

- NYSDEC, 2015a *Final Statement of Basis, Corrective Measures Selection, Former Lockheed Martin-French Road Facility, Operable Units 01 & 02, Site No. 633036A, EPA ID No. NYD000521971, Utica, Oneida County. March 2015.*
- NYSDEC, 2015b *2015 Annual Vapor Intrusion Study and Work Plan for Soil Vapor Intrusion Sampling, Former Lockheed Martin French Road Facility, Utica, Oneida County, New York, Site No. 633036A. September 21, 2015.*
- NYSDEC, 2016 *Soil Vapor Intrusion Assessment, Western Building Areas, Former Lockheed Martin French Road Facility, Utica, Oneida County, New York, Site No. 633036A. September 22, 2016.*
- Stantec, 2015 *Work Plan for Soil Vapor Intrusion Sampling, Western Portion of Manufacturing Facility, Former Lockheed Martin French Road Facility, 525 French Road, Utica, New York, NYSDEC Site No.: 633036A. September 8, 2015.*
- Stantec, 2016a *Draft Interim Site Management Plan, Former Lockheed Martin French Road Facility, Solvent Dock Area and West Lot, Oneida County, Utica, New York, NYSDEC Site Numbers: 633036 and 633036A. February 2016.*
- Stantec, 2016b *Soil Vapor Intrusion Assessment, Western Building Areas, Former Lockheed Martin French Road Facility, Utica, New York. July 20, 2016.*
- Stantec 2017 *Summary of Vapor Monitoring Point Decommissioning, Western Building Areas, Former Lockheed Martin French Road Facility, January 24, 2017.*

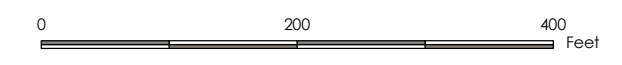
FIGURE

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Legend

- Approximate Site Cover System Extent
- Property Line
- 19 Photo number and direction of shot (Appendix C-1)



Notes

1. Coordinate System:
NAD 1983 StatePlane New York Central FIPS 3102 Feet



Project Location: 525 French Road, Utica, Oneida County, NY
 Prepared by: CY on 2016-11-03
 1st Technical Review by: RJM on 2016-11-03
 2nd Technical Review by: PN on 2016-11-03
 190500800

2016 Site Management Report
 Former Lockheed Martin French Road Facility
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Figure No.
C-1
 Title

**Cover Area Inspection October 4, 2016
 Photo Locations**

APPENDIX C-1

2016 Annual Sitewide Inspection Form and Photolog



Annual Sitewide Inspection Form
 Former Lockheed Martin French Road Facility
 NYSDEC Sites #633036 and #633036A
 525 French Road
 Utica, Oneida County, New York

Inspection Date: TUESDAY Oct 4th 2016

Time Period Inspection Covers: Annual Inspection for 2016

Inspector(s): PETER NIELSEN Weather: Sunny, clear, 65°F
(w/ RICK ZIGENTUS - CONMED)

General

A. Describe the site usage (i.e. commercial or industrial purposes, or higher level usage [i.e. unrestricted, residential])? CONMED - INDUSTRIAL USE

B. Describe general site conditions. Conditions observed same as last year - well maintained site

C. Is the site currently undergoing development? If so, describe. No

D. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during the Reporting Period? No

E. Is the site being used for vegetable gardening or farming? No

F. Has groundwater monitoring been performed according to the schedule in the Site Management Plan (SMP)? Yes

G. Is groundwater being used on-site? No If so, is it being rendered safe for its intended use? Describe.

H. Are there buildings on-site? Yes - Majority of site is covered with buildings.

I. If so, has the potential for vapor intrusion been evaluated or has a sub-slab depressurization system (SSDS) been installed? If a SSDS is present, has the SMP been modified to include a SSDS inspection schedule and form?

VI has been investigated. SSDS Mitigation system is in place & being routinely inspected & monitored in accordance with SMP.

Annual Sitewide Inspection Form

Former Lockheed Martin French Road Facility

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J. Have any activities been conducted since the last inspection that necessitated site management activities be conducted, such as excavation in covered areas, confirmation sampling and a health and safety inspection?

No,* minor shallow pavement/sidewalk repair excavations only
*(*See note below re: emergency watermain repair area)*

K. Is the site in compliance with permits and schedules included in the Operations and Maintenance Plan in the SMP?

YES

L. Have any federal, state, and/or local permits (e.g. building, discharge) been issued for or at the property during this Reporting Period?

No

M. Has all reporting been performed per the schedules outlined in the SMP and are all site records up to date?

YES

N. Are all ICs/ECs in place and functioning as designed?

YES

Site Cover System

- 1. Walk and inspect the entire perimeter of the area of Site Cover*.
- 2. Walk and inspect all of the paved areas (concrete and asphalt) of the Site Cover*.
- 3. Walk and inspect all of the unpaved areas (landscaped/vegetated) of the Site Cover*.

* The areal extent of the Site Cover System is depicted on the attached Figure L-1

A. Are there any signs of significant cracks, settlement, or deterioration of the paved areas?

No - just minor existing pavement cracks & puddle areas

B. Has any of the pavement material been removed or repaired?

Yes - emergency watermain repair on 12/18/15, pavement replaced w/conc.

C. Are there signs of vehicular use on the unpaved areas (tire tracks, ruttings, etc.)?

No - just minor spots from lawn mower along

D. Have any structures been constructed on the unpaved areas?

No *north side of maintenance building.*

E. Are there any signs of soil washing or erosion (gullies, soil washed out onto the pavement, etc.)?

No

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F. Are there any signs of intrusive activities (drilling, digging, trenching, grading, excavating, etc.)?

Handicap side walk ramps constructed
on east & west entrances, curbing
also replaced, shallow excavations
only.* Area 2 excavation circa investigation
activities conducted in 2016 - but
those under supervision of Stantec in
accordance with approved work plans.

* One excavation was required in the
east parking area. A fire main repair
in Dec 18, 2015 was needed - no asphalt
available - so concrete was used.
(per Rich Zigentus - ConMed)

By Peter Nielsen
PETER NIELSEN/PE
STANTEC
10/4/2016



**Photo 1: South side opposite front entrance to building
- looking east.**

**Photo 2: South side opposite front entrance to building
- looking west.**



Photo 3: South side showing drive and landscaped area along front of building – looking west.



Photo 4a: South side west end showing new handicap ramp/sidewalk completed – looking west.



Photo 4b: South side – west end showing new handicap ramp/sidewalk completed – looking north.



Photo 5: West side – curb replacement, completed along with ramp/sidewalk project – looking north.



Photo 6: West side – typical parking area pavement – looking west.



Photo 7: West side – typical landscaping at west side of site cover area – looking north



Photo 8: West side – paved area along building – looking north toward loading docks.



Photo 9: Northwest corner of site cover area – pavement and wooded area – looking west.



Photo 10: North side – west end showing electrical substation area.



Photo 11: North side – west end, overview of paved access drive – looking east.



Photo 12: North side – west end, boiler house to left, overview of paved access drive – looking east.



Photo 13: North side – landscaped area north of boiler house – looking east.



Photo 14: North side – showing area between boiler house and maintenance building.



Photo 15: North side – central area, maintenance building to left – looking east.



Photo 16: North side – central area showing pole barn in distance – looking east.



Photo 17: North side – eastern end showing pavement and main building – looking east.



Photo 18: North side – area north of pole barn with GCTS in background – looking east.



Photo 19: North side – area north of maintenance building, some minor rutting due to saturated ground – looking west.



Photo 20: North side – showing east side of pole barn – looking north.



Photo 21: East side – gravel covered area along security fence line – looking south.



Photo 22: East side – Northeast corner showing grass covered area.



Photo 23: East side – showing parking/pavement area – looking south.



Photo 24: East side – Northeast corner showing grass covered area – looking north along eastern fence line.

Photo 25: East side – showing parking/pavement area – looking west.



Photo 26: East side – showing parking/pavement area – looking west.



Photo 27: East side – showing parking/pavement area, note construction fencing for curb replacement sidewalk ramp project, and location of water main repair/concrete patch – looking west.



Photo 28: East side – showing water main repair/concrete patch – looking north.



Photo 29: East side handicap ramp/sidewalk project nearing completion – looking northeast.



Photo 30: East side – handicap ramp/sidewalk project nearing completion – looking east.

Photo 31: South side – east end showing typical pavement/landscaping – looking west.