



Stantec Consulting Services Inc.
61 Commercial Street, Suite 100, Rochester NY 14614-1009

August 24, 2015
File: 190500800

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway, 11th Floor
Albany, NY 12233-7014

Attention: Sarah Saucier, P.E. Project Manager

Reference: Assessment of Potential Soil Vapor Intrusion
Western Portion of Manufacturing Facility
Former Lockheed Martin French Road Facility
525 French Road, Utica, New York
NYSDEC Site No. 633036A

Dear Ms. Saucier:

On behalf of Lockheed Martin Corporation (Lockheed Martin) Stantec is providing this summary of historical information and sampling data reviewed to assess potential soil vapor intrusion (SVI) for the western portion of the Former Lockheed Martin Facility located at 525 French Road in Utica, New York ("site"). The site is currently occupied by ConMed Corporation (ConMed). This letter is provided in response to NYSDEC's letter to Lockheed Martin dated May 19, 2015.

Background

As you are aware, SVI mitigation for a portion of the facility in the form of a sub-slab depressurization system (SSDS) has been in place for several years due to the presence of chlorinated volatile organic compounds (CVOCs) in groundwater beneath a portion of the building. Mitigation was initiated in November 2007 when a pilot test was performed on an SSDS that included two sub-slab depressurization sumps (SDSs). The pilot test system was expanded as part of an interim corrective action plan to include an additional SDS, and continuous operation began in July 2008. In September 2010, the SSDS was upgraded with the addition of four new SDSs and associated vapor monitoring points (VMPs), and the installation of a larger blower and vapor treatment system. These and other upgrades expanded the area of capture of sub-slab vapor.

Operation, monitoring & maintenance (OM&M) data from 2013 indicated greater vacuum was required in the vicinity of VMP-7A. Accordingly, another SDS and four additional VMPs were



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installed in 2013, bringing the total number of SDSs to eight and VMPs to 25. The system has been operating under these conditions since 2013 and has been providing sufficient vacuum to the sub-slab environment to mitigate SVI in the eastern one-third of the building. Figure 1 shows the layout of the existing SSDS overlain on the current floor plan of ConMed's facility. The drawing includes the eight SDSs and 25 VMPs that are routinely monitored for vacuum levels and/or sampled for sub-slab vapors.

The initial SSDS and subsequent expansions have been designed and installed based on the results of several phases of sub-slab vapor and indoor air sampling beginning in February 2006, and ongoing annual vapor intrusion studies since 2009. The eastern portion of the building has been the focus of mitigation due to the proximity of that portion of the facility to the known area of groundwater VOC impacts, which imparts the greatest potential for SVI, and the results of the historical VI sampling which indicated the need for mitigation. All sampling, design, system construction/operation and annual studies have been performed in accordance with work plans and other documentation provided to and approved by NYSDEC and NYSDOH.

NYSDEC sent a letter to Lockheed Martin dated May 19, 2015 regarding the potential for vapor intrusion in the western portions of the building. In summary, the letter indicated:

- NYSDEC and NYSDOH are concerned that SVI has not been completely investigated for the western portion of the building and that there is an absence of soil vapor analytical data for that area; and
- Lockheed Martin should either provide justification why additional SVI investigation is not warranted for the western portion of the building, or provide an SVI Sampling Work Plan to evaluate conditions in these areas. Further, NYSDEC/NYSDOH directed that at least six additional soil vapor points would be required should the assessment indicate that additional SVI investigation is warranted.

Potential Soil Vapor Intrusion Assessment

To address the concerns stated in the May 19 letter, Stantec has reviewed historical information related to areas of the building beyond the portion currently under SVI mitigation. Documents reviewed included the following:

1. *Phase I Environmental Site Assessment, French Road Facility, Martin Marietta Corporation, Utica, New York, Blasland, Bouck & Lee, Inc., October 1995;*
2. *Closure Report, French Road Facility, Lockheed Martin Corporation, Utica, New York, Blasland, Bouck & Lee, Inc., September 1996;*



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3. *Addendum to the Vapor Intrusion Study Report for the Solvent Dock Area, Former Lockheed Martin French Road Facility, Arcadis, February 2008;*
4. *Order on Consent for Corrective Action, Index No. C 6-20080321-5, New York State Department of Environmental Conservation, October 2008; and*
5. Results of Indoor Air Sampling performed by GHD Consulting Services Inc. (for ConMed), January 21, 2015.

The first two listed documents were reviewed for details on former manufacturing processes or activities in the main building that may have involved the use of CVOC-containing solvents and might therefore provide guidance on locations where CVOCs may be present in sub-slab soil vapor. The third document contains results of sub-slab vapor and indoor air sampling performed in limited areas to the west of the current mitigation area. The Order-on-Consent contains a summary of corrective actions for the solid waste management units (SWMUs) identified for the facility. The final document provides indoor air sample results for 14 samples taken throughout the main ConMed facility (and other samples from outbuildings), 9 of which were located to the west of the limits of the current mitigation system.

The following is a summary of relevant information from these documents as it pertains to areas west of the current SSDS.

- ***Phase I Environmental Site Assessment, French Road Facility, Martin Marietta Corporation, Utica, New York, Blasland Bouck & Lee, October 1995.***

This report identified and discussed several environmental issues for the site but provided little detail relative to the usage or storage of chlorinated solvents in the main facility. The report mentions the use of solvents, however only in relation to: 1) the solvent dock and former underground tanks adjacent to the dock; and 2) the former 90-day hazardous waste storage area located outside the northeast corner of the building (see also Figure 2, Site Plan from the report, included in Attachment 1). Accordingly, this information related to solvent presence is not specific to the western two-thirds of the building.

- ***Closure Report, French Road Facility, Lockheed Martin Corporation, Utica, New York, September 1996.***

This report summarized facility cleaning and decommissioning activities performed after Lockheed Martin sold the site to Pinnacle Park, Inc. and was vacating the facility. Specific information relative to usage of solvents in the main facility is not provided. The following items are noted from the report:



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- Based on Figure 1 of the report (see copy, Attachment 1), the majority of the south-central and southwestern portions of the building were generally offices and related usage, and the cafeteria/kitchen facility. Much of the central and western areas were assembly or lab areas. The northwestern portion was primarily shipping/receiving and stock rooms.
- “Heavy industrial cleaning” was performed in areas that may have utilized “industrial solvents, caustics, oils and greases, lead or PCBs.” Based in Figure 1 of the report, the only areas in the western two-thirds of the building that received this cleaning treatment are listed below:
 - West Elevator Pit;
 - Receiving Dock;
 - Substrate Plating;
 - S/S Laser; and
 - Kitchen.

None of these areas are documented in the report as specifically having a history or evidence of “industrial solvent” usage. Contaminants of concern and post-cleanup testing results were focused on PCBs and Lead.

- Sediment from a sump in the R&R Mechanical Room was found to contain detectable levels of VOCs. The sediment was removed and disposed and the sump was cleaned. The Order-on-Consent indicates no further action was required (see discussion below).
- Figure 1 of the report shows two adjacent areas in a “Micro Assembly” room near the center of the building (near building column location M-22/23) labeled as “Vapor Phase Prep” and “Vapor Phase.” It is not known if these may refer to a possible vapor degreaser location. No specific mention is made of a degreaser location in this report.
- A statement in the report indicates: “No D&D activities were performed in the building tunnel system or on the exterior surfaces.” No other details on a “tunnel system” in the facility are included in this report. It may be a reference to sub-slab utility corridors (pipe “chases”), connections between sumps, or other structures. Several references are made in the report to “collection trenches”, however these were reportedly cleaned as part of the decommissioning project. Sub-slab tunnels, even if small in diameter, could provide a means for soil vapor migration.



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- ***Addendum to the Vapor Intrusion Study Report for the Solvent Dock Area, Former Lockheed Martin French Road Facility, Arcadis, February 2008.***

This report summarized the results and findings of all SVI sampling that had been performed in 2006 and 2007 in the main facility (and three outbuildings). Most of the main facility samples were taken in the eastern one-third of the building, and SVI was ultimately addressed in that area with the installation of the SSDS; Figure 5 of the 2008 Addendum (included in Attachment 1) depicts the sample locations. These samples included a mixture of sub-slab vapor, indoor air and ambient air taken during five distinct sampling events between February 2006 and November 2007.

As Figure 5 (Attachment 1) depicts, the footprint of sampling was expanded in 2007 to include locations to the west of the current SSDS area (essentially west of building column line 31). The following table summarizes the dates and samples collected and analyzed (note that some indoor air samples were obtained but not analyzed, as agreed to by NYSDEC):

Date	Sample Numbers	Sample Type	NYSDEC Matrix Output
4/12/2007	VP-1SD	Sub-slab	No Further Action*
	VP-3SD/AA-3SD	Sub-slab/Indoor Air	ID Background and Reduce Exposures
	VP-4SD/AA-4SD	Sub-slab/Indoor Air	Monitor
	VP-5SD	Sub-slab	No Further Action*
	VP-7SD	Sub-slab	No Further Action*
11/15/2007	VP-4SD/AA-4SD	Sub-slab/Indoor Air	Monitor
	VP-10SD/AA-10SD	Sub-slab/Indoor Air	Monitor
	VP-11SD/AA-11SD	Sub-slab/Indoor Air	Monitor

* Indicates a matrix output based only on the sub-slab sample analysis; the collocated indoor air sample was not analyzed, as agreed to by NYSDEC and NYSDOH.

For those samples where collocated sub-slab and indoor air samples were obtained, the results were compared to the SVI Decision Matrices included in the 2006 NYSDOH *Final Guidance – for Evaluating Soil Vapor Intrusion in the State of New York*.

Sample locations VP-1SD, VP-5SD and VP-7SD, all of which indicated No Further Action in April 2007 (and thus were not considered further or re-sampled in November 2007), are located in relatively close proximity to the area currently under mitigation. The collocated indoor air sample was not



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analyzed at these locations due to the low-level sub-slab concentrations, as agreed to by NYSDEC and NYSDOH. The worst-case-scenario matrix output for these locations would be to “Take Reasonable and Practical Actions to Identify Source(s) and Reduce Exposures” (pending indoor air results), based on the sub-slab concentrations of TCE and PCE.

The results for location VP-3SD indicated a Background Matrix output. Note that this is immediately adjacent to the west of the “Vapor Phase Prep” area labeled on the facility closure report drawing at approximately building column location M-22/23 (see BBL Figure 1 and ARCADIS Figure 5 in Attachment 1). Sample locations VP-4SD, VP-10SD, and VP-11SD, which are located farther west, all exhibited a Monitor matrix output. These data identified only a low-level presence of CVOCs in sub-slab soil vapor in that area.

- ***Order-on-Consent for Corrective Action, Index No. C 6-20080321-5, New York State Department of Environmental Conservation, October 2008***

Table 1 of the Order-on-Consent summarizes corrective action requirements for the formerly-identified SWMUs at the facility (see copy in Attachment 2). Solvents or VOCs are indicated for three SWMUs. Two of these locations (Hazardous Waste Storage Area and Hazardous Waste Storage Tanks) were located in the eastern portion of the facility and are not relevant to this assessment of the western building areas. The third, identified as the R&R Mechanical Room (located in the north central portion of the building; see BBL Figure 1 in Attachment 1), was the location of a sump within which VOCs were detected in collected sediment. The sediment was removed and the sump cleaned by high pressure wash. The table indicates “no evidence of impacts from sediment to external receptors” was identified, and no further action was required.

- **Results of Indoor Air Sampling, GHD Consulting Services Inc., January 21, 2015**

ConMed’s consultant, GHD Consulting Services Inc. (GHD), performed indoor air sampling throughout the main facility and several outbuildings on January 21, 2015. We are not aware of a formal report documenting this sampling event, however it is assumed that proper sampling methodologies for indoor air were followed. The information provided by ConMed indicates that fourteen samples were obtained in the main facility, as shown on GHD’s Figure 1, Indoor Air Sample Locations (see Attachment 1). Corresponding sub-slab vapor samples were not obtained. Five samples (IA10 – IA14) of the fourteen total samples were obtained in the eastern one-third of the facility where the SSDS is currently operating.

Eight of the fourteen samples, including all of the five samples taken in the area currently under mitigation, did not detect the compounds trichloroethene (TCE) and tetrachloroethene (PCE), the two primary CVOCs of concern relative to SVI at the site. The remaining six samples showed only



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low-levels of TCE (maximum value 0.7 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), and only two locations detected PCE (maximum value 0.88 $\mu\text{g}/\text{m}^3$). The NYSDOH guidance values for indoor air for these compounds are 5 $\mu\text{g}/\text{m}^3$ and 100 $\mu\text{g}/\text{m}^3$ for TCE and PCE, respectively.

Summary and Conclusions

- A review of the available historical reports provided limited information regarding specific processes or activities within the main facility building that may have used chlorinated solvents. The most well-documented area is the Solvent Dock and the associated underground overflow retention tank which resulted in CVOC impacts to soil and groundwater in that area. Impacts in this area are not relevant to the western portions of the building beyond the area of influence of the currently-operating SSDS, which covers essentially the eastern one-third of the facility.
- It is possible that the "Vapor Phase" area (approximate column location M-22/23) labeled on the 1996 facility closure report drawing (see BBL Figure 1 in Attachment 1) may refer to a degreasing operation; however this could not be confirmed. The analytical data for SVI sample location VP-3SD, located immediately adjacent to this former feature, resulted in a Background status based on the NYSDOH guidance matrices. These data are not indicative of significant adverse subsurface impacts (i.e. direct solvent release) from such a feature, if it was actually a degreaser. ConMed's Indoor Air sample IA-7 (see GHD Figure 1 in Attachment 1) was also located in close proximity to this former feature; TCE and PCE were not detected in this sample.
- Three collocated sub-slab vapor/indoor air samples (VP-4SD, VP-10SD, and VP-11SD) collected by ARCADIS in November 2007 which were located roughly near the center of the facility (see Figure 5 in Attachment 1) indicated low levels of TCE and PCE in sub-slab vapor that resulted in a Monitor output when compared to the NYSDOH guidance matrices. Exceedances of the NYSDOH indoor air guidance values for these compounds were not observed during this sampling, and recent indoor air samples by ConMed in this area also did not indicate exceedances.
- As shown on Figure 5 in Attachment 1, sub-slab vapor samples have not been obtained for approximately the western one-third of the facility (generally west of column line 15), as well as the northern-central and southern-central areas. Although the GHD indoor air results do not detect TCE or PCE at levels that approach or exceed NYSDOH indoor air guidance values, the lack of CVOCs in sub-slab vapor throughout the western portions of the building cannot be confirmed.



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Recommendations

The historical information and sampling results reviewed do not indicate known presence of CVOCs in the subsurface at concentrations that are likely to result in SVI in the western portions of the building. The SVI sampling data do, however indicate at least low-level CVOC presence near the center of the facility.

Lockheed Martin would like to establish definitive data to demonstrate that vapor intrusion is not an issue in the western portions of the facility, and therefore agrees to perform supplemental SVI sampling as requested by NYSDEC/NYSDOH.

Since the locations of specific processes or operations that might have resulted in CVOC impacts to the subsurface beneath the building are not known, the locations of the samples should target those areas where such potential usage appears to be highest. NYSDEC/NYSDOH directed that at least six additional soil vapor points would be required. Accordingly, Stantec recommends collocated sub-slab and indoor air samples be obtained at the following locations, which are indicated on Figure 2. These locations are approximate only and are subject to approval by NYSDEC, NYSDOH and ConMed:

- A. The corridor immediately south of the former "Vapor Phase" area, currently the Biomaterials area (near column N-22). This is based on the potential for this feature to have been the location of a vapor degreaser, as discussed above.
- B. The former "R&R Mechanical Room," currently a Maintenance Shop, on the north wall of the building (near column B-22). Although the sump containing VOC-impacted sediment was cleaned and no further action was required, this is one of the few areas where historical VOC presence in the western portion of the building was documented.

The following four locations are chosen to provide areal coverage of the remaining non-office areas and to avoid interference with current sensitive ConMed operation areas such as clean rooms:

- C. Near the former "Spray Room" area, currently a storage area outside the Extruder Room (near column H-18);
- D. Near the former "Government Tooling" and Engineering Lab #20 areas, currently a hallway (near column E-12);
- E. Near the north side of the former Engineering Lab #1 area, currently a hallway (near column E-4);
- F. Near the southwestern corner of the former "Engineering Lab #1" area, currently a hallway near the west employee entrance (near column J-2).



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SVI Sampling Work Plan

A written Work Plan for the SVI sampling in the Western Portions of the building will be submitted to NYSDEC under separate cover. The sampling methodology will be similar to that utilized for previous VI sampling performed at this site, and will be in general conformance with NYSDOH's 2006 *Final Guidance for Evaluating Soil Vapor Intrusion Testing in the State of New York*.

Please contact us at any time with questions.

Regards,

STANTEC CONSULTING SERVICES INC.

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Senior Associate
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Attachments

Figure 1 – Subslab Depressurization System Layout

Figure 2 – Proposed Soil Vapor Intrusion Sample Locations

Attachment 1 – Historical Drawings:

- Figure 2, "Site Plan" (from *Phase I ESA Report*, BBL, 1995)
- Figure 1, "Decommissioning and Decontamination Summary" (from *Closure Report*, BBL, 1996)
- Figure 5, "Round 1 and 2 Subslab/Indoor Air Samples and NYSDOH Matrix Decisions" (from *Addendum to The Vapor Intrusion Study Report*, ARCADIS, 2008)
- Figure 1, "Indoor Air Sample Locations" (GHD, 2015)

Attachment 2 – Table 1 from 2008 Order-on-Consent



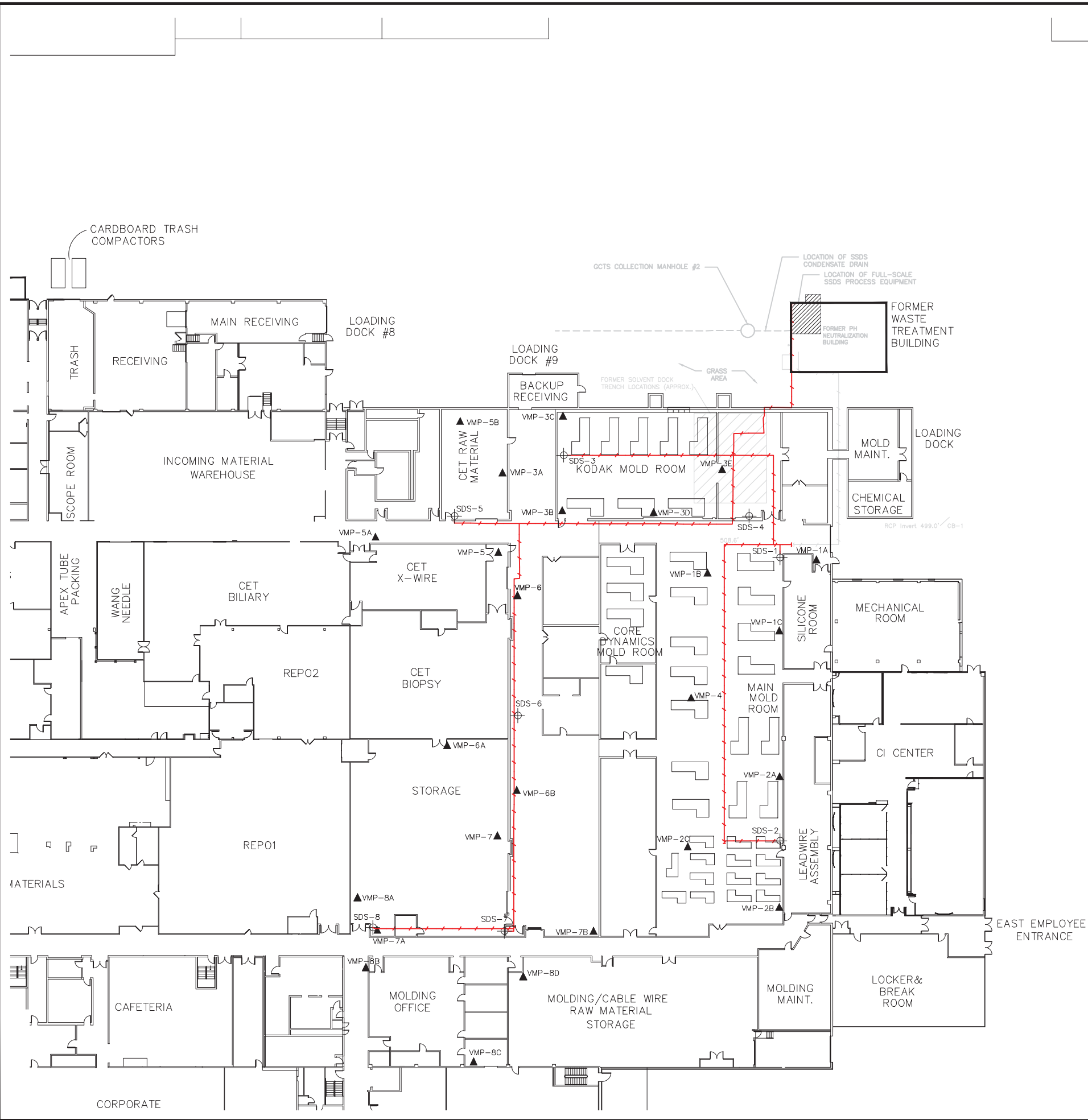
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cc: Steven Karpinski, NYSDOH
 Rick Zigenfus, ConMed
 Charles Trione, Lockheed Martin
 Mary Morningstar, Lockheed Martin
 James Zigmont, CDM Smith

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FIGURES

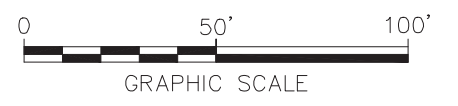


LEGEND:

- SDS-4  LOCATION OF SUBSLAB DEPRESSURIZATION SUMP (SDS)
- VMP-4  PERMANENT VAPOR MONITORING POINT (VMP)
-  LOCATION OF SUBSLAB DEPRESSURIZATION SYSTEM EQUIPMENT
-  LOCATION OF SUBSLAB DEPRESSURIZATION ABOVE GRADE PIPING

NOTES:

1. BASE DRAWING SOURCE: CONMED, TITLE: FRENCH ROAD BLOCK PLAN PROPOSED SPACE UTILIZATION, DRAWING NO:FR001, DATE: 01/28/94. CONMED SOURCE DRAWING: LOCKHEED MARTIN DRAWING NUMBER RFABLK.DWG JEG 31OCT94.



FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY UTICA, NEW YORK	
SUBSLAB DEPRESSURIZATION SYSTEM LAYOUT	
	FIGURE 1

ATTACHMENT 1

Historical Drawings

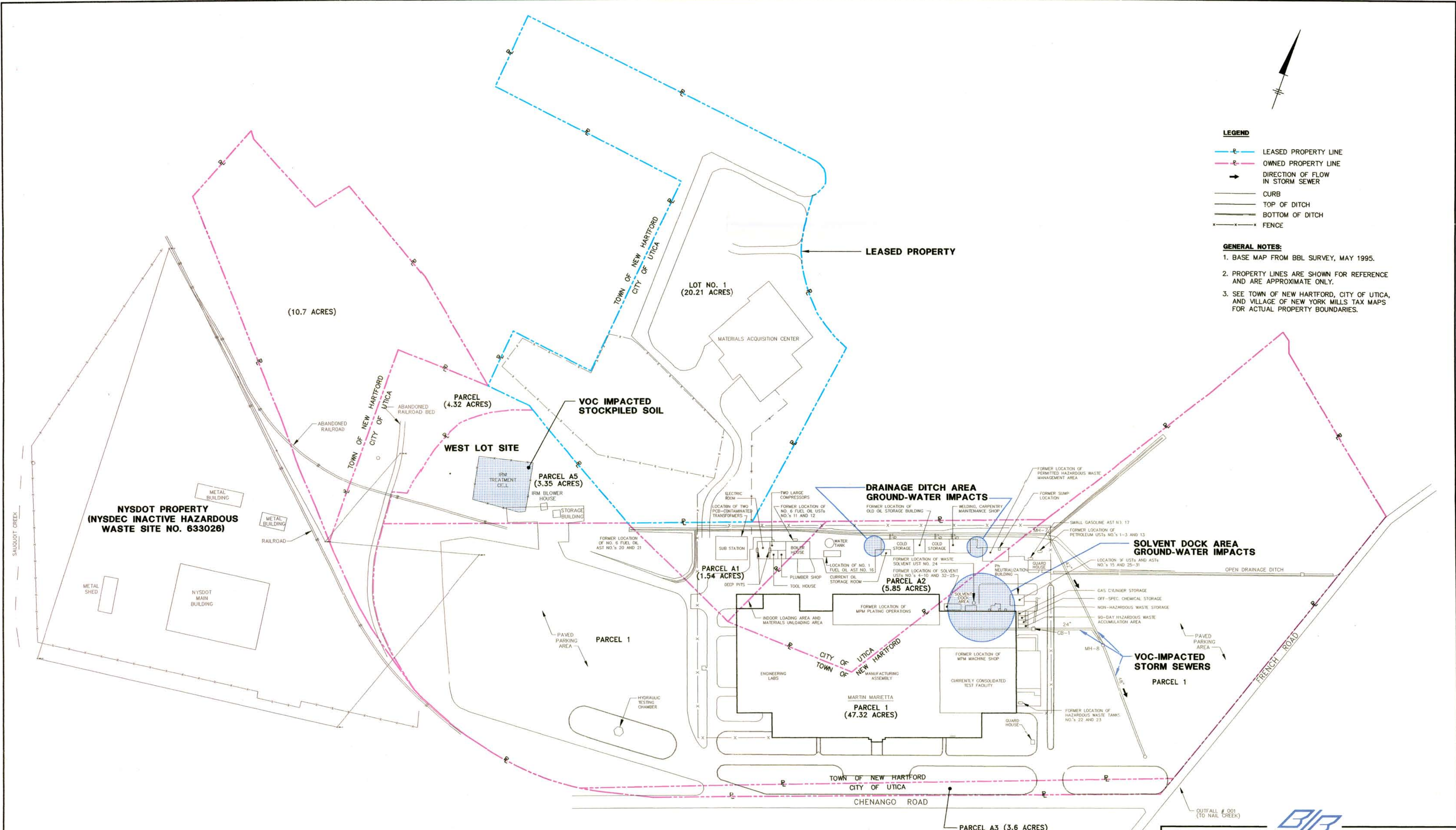


LEGEND

- LEASED PROPERTY LINE
- OWNED PROPERTY LINE
- DIRECTION OF FLOW IN STORM SEWER
- CURB
- TOP OF DITCH
- BOTTOM OF DITCH
- FENCE

GENERAL NOTES:

1. BASE MAP FROM BBL SURVEY, MAY 1995.
2. PROPERTY LINES ARE SHOWN FOR REFERENCE AND ARE APPROXIMATE ONLY.
3. SEE TOWN OF NEW HARTFORD, CITY OF UTICA, AND VILLAGE OF NEW YORK MILLS TAX MAPS FOR ACTUAL PROPERTY BOUNDARIES.



SITE PLAN
NOT TO SCALE

BLASLAND, BOUCK & LEE, INC.
ENGINEERS & SCIENTISTS

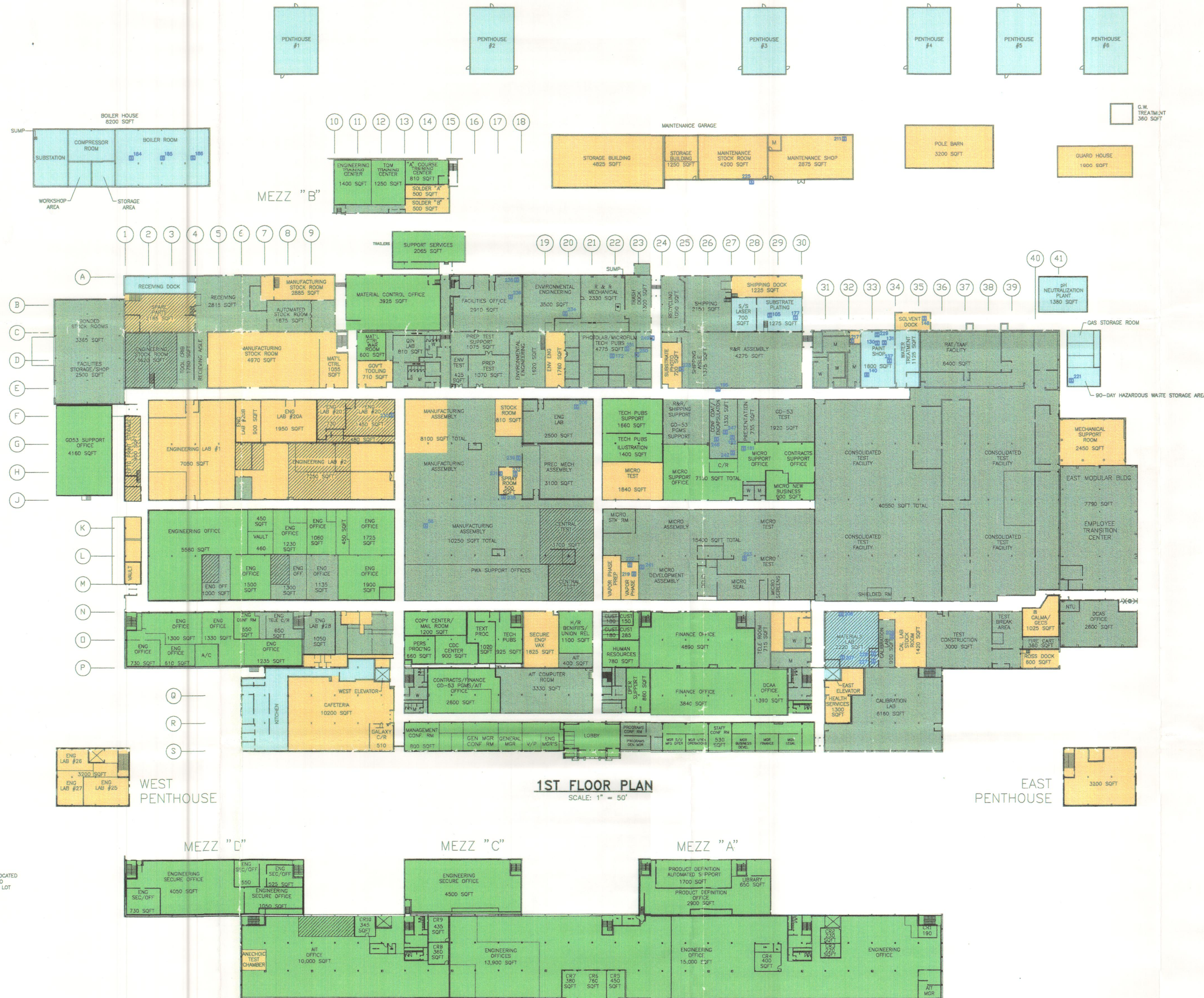
MARTIN MARIETTA CORPORATION
FRENCH ROAD FACILITY
UTICA, NEW YORK

PHASE I ENVIRONMENTAL SITE ASSESSMENT

SITE PLAN FIGURE
2

OPTIONAL L: OR X:
10/95 54-JLG
33091.001/38091.001.DWG

OIL PUMP HOUSE LOCATED APPROXIMATELY 800 FEET FROM MAIN BUILDING



- LEGEND:**
- HEAVY INDUSTRIAL CLEANING
 - LIGHT INDUSTRIAL CLEANING
 - GENERAL OFFICE CLEANING
 - NO CLEANING—AREA VISUALLY INSPECTED AND DETERMINED TO BE CLEAN
 - ASBESTOS CONTAINING MATERIALS ABATEMENT AREA
 - AIR EMISSION POINT; PERMIT REQUIRED

- GENERAL NOTES:**
1. BUILDING COLUMNS ARE SPACED AS FOLLOWS:
NORTH-SOUTH: 50 FEET
EAST-WEST: 21 FEET
 2. AREA NAMES GIVEN DO NOT NECESSARILY MATCH EXISTING FACILITY AREA SIGNAGE.
 3. NO D&D ACTIVITIES REQUIRED AT THE GROUND-WATER TREATMENT BUILDING.
 4. EMISSION POINT NO. 237 REMOVED PREVIOUS TO PERFORMANCE OF DECOMMISSIONING AND DECONTAMINATION ACTIVITIES.
 5. THE FORMER PRINTED WIRE BOARD AREA INCLUDES THE FOLLOWING AREAS SHOWN ON FIGURE: RECYCLING, SUBSTRATE PHOTO, SHIPPING, S/S LASER, SUBSTRATE PLATING, AND R & R ASSEMBLY.
 6. THE FORMER METAL PARTS MANUFACTURING AREA INCLUDES THE CONSOLIDATED TEST FACILITY AREA SHOWN ON FIGURE.



**LOCKHEED MARTIN CORPORATION
FRENCH ROAD FACILITY
UTICA, NEW YORK
CLOSURE REPORT**

**DECOMMISSIONING AND
DECONTAMINATION SUMMARY**

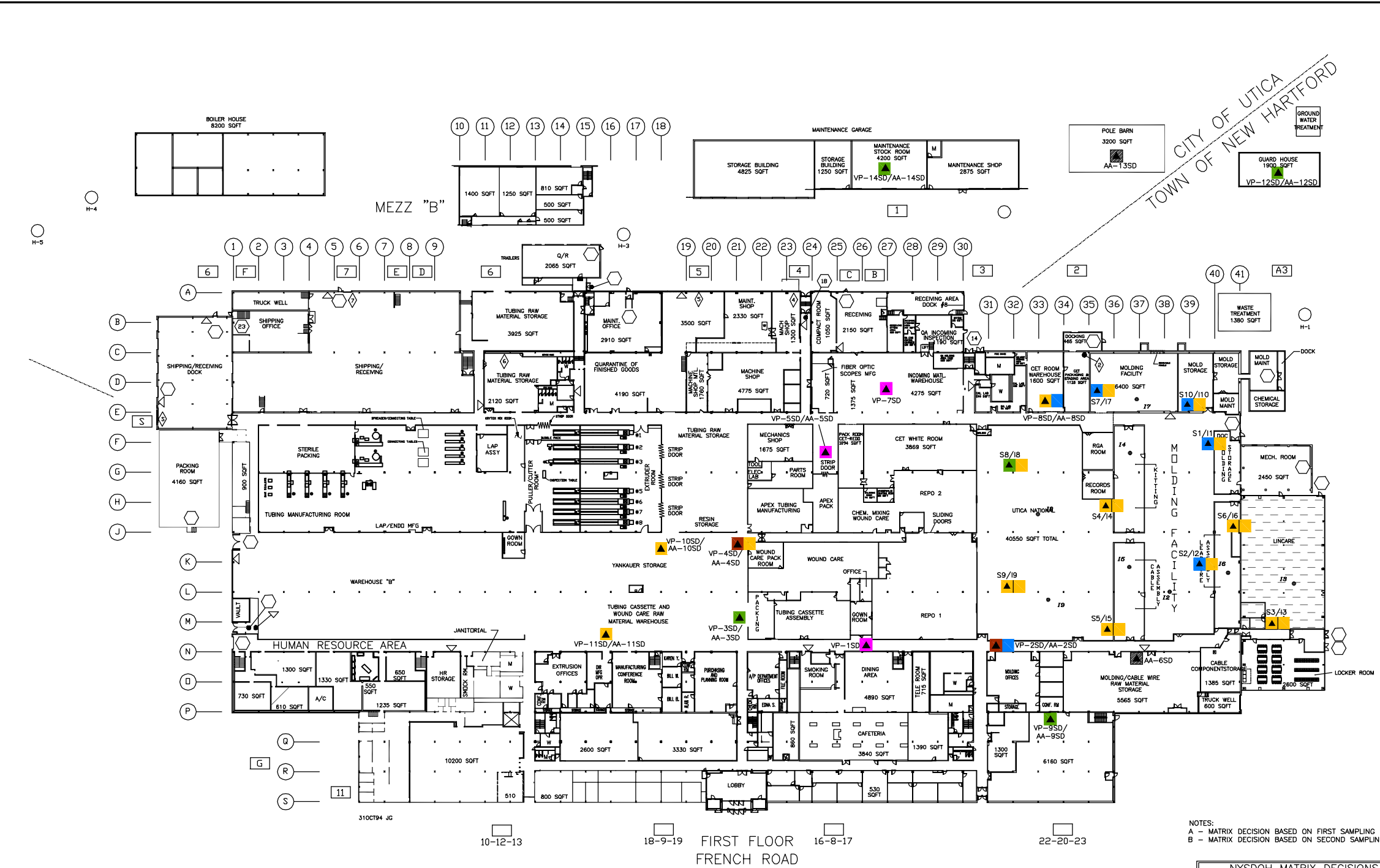
BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

Current Phase - Pre-Color
Layout Table Layout

Date/Time: Fri, 15 Feb 2008 - 11:57:00
Path Name: C:\NVA\UIC-Utica\NYSDOH Matrix Decisions - Combined - all data.dwg

Acad Version: R16.2 (U.S. Tech)
User Name: mackelmann
© 2006 ARCADIS G&M, INC



KEY

- ▲ INDOOR AIR / SUBSLAB SOIL GAS SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- UNCLARE
- EXIT SIGNS
- ▽ PULL STATIONS
- ◇ RISERS
- PIST INDICATOR VALVES
- HYDRANTS

NOTES:
A - MATRIX DECISION BASED ON FIRST SAMPLING ROUND
B - MATRIX DECISION BASED ON SECOND SAMPLING ROUND

NYSDOH MATRIX DECISIONS

- NO CLASSIFICATION POSSIBLE, INDOOR AIR SAMPLE ONLY
- NO FURTHER ACTION
- TAKE REASONABLE AND PRACTICAL ACTIONS TO IDENTIFY BACKGROUND SOURCES AND REDUCE EXPOSURES
- MONITOR
- MONITOR/MITIGATE
- MITIGATE

SAMPLES INCLUDED IN FIRST MATRIX DECISION (ON LEFT)

SAMPLED 2/26/2006:

11/S1
S2
13/S3
14/S4
15/S5
16/S6
17/S7
18/S8
19/S9
110/S10

SAMPLED 3/30/2006:

11-RETEST
14-RETEST

SAMPLED 4/12/2007:

VP-1SD (A)
AA-2SD/VP-2SD
AA-3SD/VP-3SD (A)
AA-4SD/VP-4SD
VP-5SD (A)
AA-6SD (A)
VP-7SD (A)
AA-8SD/VP-8SD

SAMPLES INCLUDED IN SECOND MATRIX DECISION (ON RIGHT)

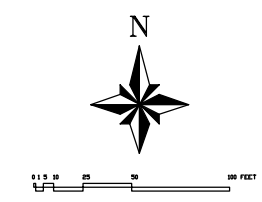
SAMPLED 10/2/2007:

S1 100207 2HR
S1 100207 24HR
S2 100207 2HR
S2 100207 24HR

SAMPLED 11/15/2007:

11/S1
12/S2
13/S3
14/S4
15/S5
16/S6
17/S7
18/S8
19/S9
110/S10

AA-2SD/VP-2SD
AA-4SD/VP-4SD
AA-8SD/VP-8SD
AA-9SD/VP-9SD (B)
AA-10SD/VP-10SD (B)
AA-11SD/VP-11SD (B)
AA-12SD/VP-12SD (B)
AA-13SD (B)
AA-14SD/VP-14SD (B)



ORIGINAL DRAWING PROVIDED BY CONMED CORPORATION, FROM LOCKHEED MARTIN DRAWING NUMBER RFABLK.DWG JEG 31OCT94

REV.	ISSUED DATE	DESCRIPTION

KEYPLAN

SEAL

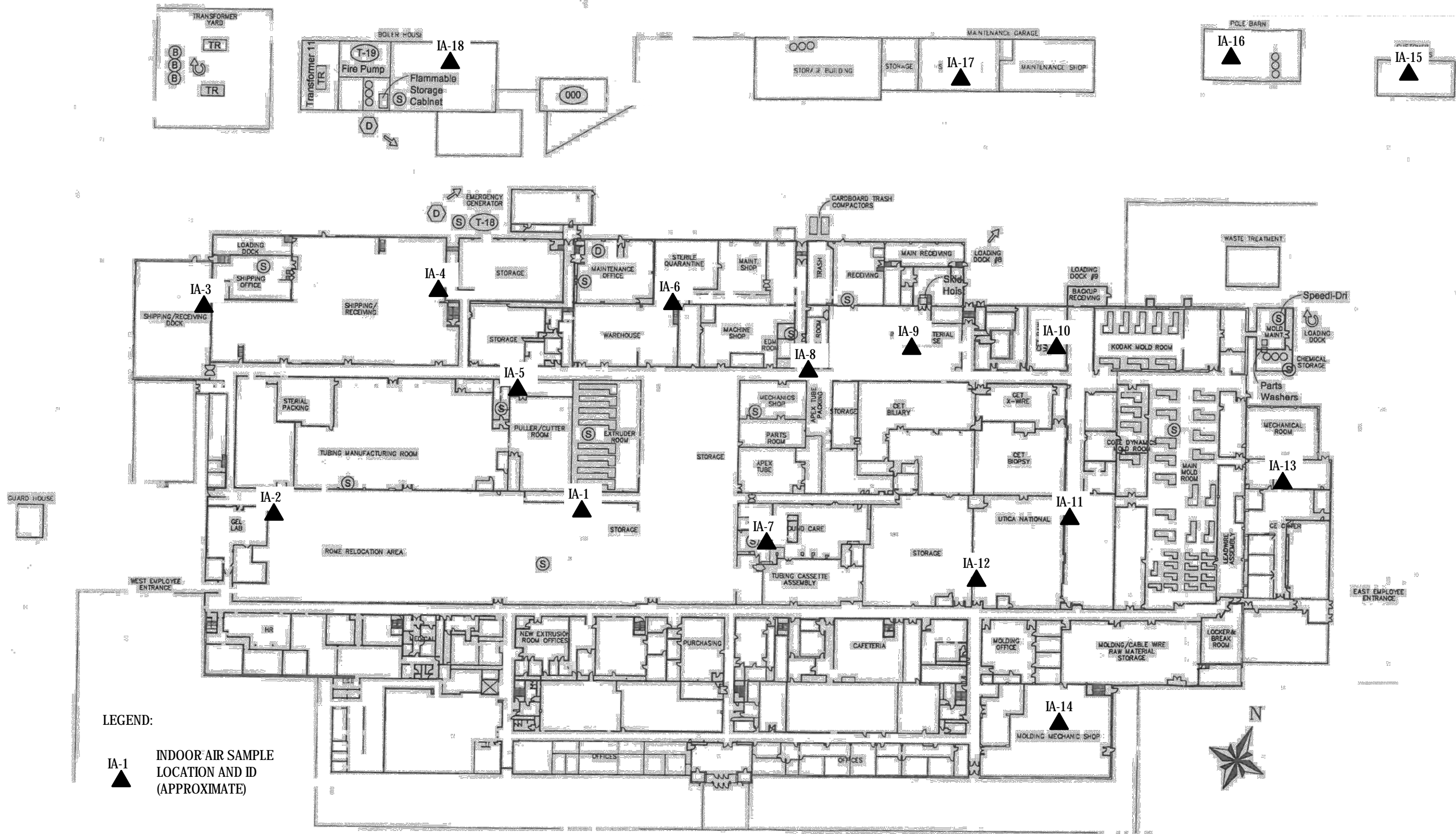
ARCADIS

482 Congress St.
Suite 500
Portland, ME 04101
Tel: 207/828-0046 Fax: 207/828-0062
www.arcadis-us.com

VAPOR INTRUSION STUDY REPORT FOR THE SOLVENT DOCK AREA

FORMER LOCKHEED MARTIN FRENCH ROAD FACILITY UTICA, NEW YORK

PROJECT MANAGER C. MOTTA	DEPARTMENT MANAGER N. WEINBERG	LEAD DESIGN PROF.	CHECKED BY N. WEINBERG
SHEET TITLE ROUND 1 AND 2 SUBSLAB/INDOOR AIR SAMPLES AND NYSDOH MATRIX DECISIONS		TASK/PHASE NUMBER 008E	DRAWN BY M. WACKSMAN
		PROJECT NUMBER NJ000622.0002	DRAWING NUMBER 5



LEGEND:
 ▲ IA-1 INDOOR AIR SAMPLE LOCATION AND ID (APPROXIMATE)

NOT TO SCALE

- NOTES:
1. BASE MAP PROVIDED BY CONMED.
 2. SAMPLE LOCATIONS ARE APPROXIMATE AND NOT SURVEYED.
 3. LOCATIONS DEPICTED HERE REPRESENT INDOOR AIR SAMPLES TAKEN ON JANUARY 21, 2015.



ConMed Corporation
 Indoor Air Sampling
 Indoor Air Sample Locations

Job Number | 86-14984
 Revision | A
 Date | 02.04.2015
Figure 1

ATTACHMENT 2
Table 1 from 2008 Order-on-Consent

Attachment 3-2: Table 1: Corrective Action Requirements and Solid Waste Management Unit Evaluation

SWMU	Status Date	Area/Constituents of Concern	Status/Result	Documentation	Recommended Action(s)
Container (CSA) – 14,000 g tank	4/14/1992	Closure Identified in Comprehensive Permitting Report	Loss of Interim Status - Clean Closed – Permit Withdrawn	Comprehensive Permitting Report (NYSDEC 9/5/06)	No Action Required (Tank closed)
Tank – 2,000 g	4/14/1992	Closure Identified in Comprehensive Permitting Report	Loss of Interim Status - Clean Closed – Permit Withdrawn	Comprehensive Permitting Report (NYSDEC 9/5/06)	No Action Required (Tank closed)
Tank Treatment – 300,000 gpd	4/14/1992	Closure Identified in Comprehensive Permitting Report	Loss of Interim Status - Clean Closed – Permit Withdrawn	Comprehensive Permitting Report (NYSDEC 9/5/06)	No Action Required (Closed)
Tank Storage	11/8/1990	Refer to the Recommended Action(s)	Majority of tanks closed in accordance with NYSDEC requirements	Phase I ESA (1995)	No Action Required for tanks that have been closed/removed. As part of the work to be conducted under AOC 5 identified in Table 1 of the CMIP, determine the status of tanks that have not received closure.
Air Emissions (41 point sources)	Sep-96	Emissions from soldering, painting, metal finishing, spray cleaning, welding, testing as well as from chemical laboratory hoods and the ventilation of hazardous waste storage areas and boilers	Deactivated/dismantled/cleaned; Air Permit Termination (Sept. 20, 1996 Letter to NYSDEC)	Closure Report (Decommissioning and Decontamination (D&D) Report) (Sept. 1996)	No Action Required (Air Permit Terminated – emission sources cleaned/dismantled)
Hazardous Waste Storage/TSDF	11/8/1990	1,1,1-TCE, Freon waste, ammonium persulfate, sulfuric and nitric acids, spent cyanide, circuit board cuttings and trimmings, isopropanol, toluene, naphtha, EP toxic silver	RCRA Closure achieved for the haz waste storage area; facility terminated authority to operate TSDF	Phase I ESA (1995)	No Action Required – RCRA Closure completed
Hazardous Waste Drum Storage Area	11/8/1990	Closure documentation does not identify COCs	Closed	Phase I ESA (1995)	No Action Required – Storage Area Closed
Hazardous Waste Storage Tanks	Current (as of 11/07)	VOCs - Solvent Dock Area	On-Going	Subject of Solvent Dock Area Investigations	Continue Solvent Dock Area investigation in accordance with the Order On Consent. As part of the work to be conducted under AOC 5 identified in Table 1 of the CMIP, determine the status of tanks that have not received closure.
Process-Related ASTs (water and wastewater chemical feed tanks and gas storage tanks)	Sep-96	Water and wastewater chemical feed tanks, gas storage tanks	Decommissioned (Liquids, gases and residual solids removed; tanks closed)	Closure Report (Decommissioning and Decontamination (D&D) Report) (Sept. 1996)	No Action Required – ASTs Closed

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pH Neutralization Plant	Sep-96	pH adjustment and oil/water separation system	Wet cleaned (not decommissioned); drained chemical storage tanks and piping and flushed with hot water; disconnected and left in place; interior floors received heavy industrial cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required (systems cleaned; no records of releases)
Boiler House	Sep-96	PCBs and Lead	Heavy Industrial Cleaning & Concrete Remediation	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Confirmatory concrete sampling conducted and was below established cleanup criteria
Substrate Plating Area	Sep-96	Lead	Heavy Industrial Cleaning with wipe samples	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
R&R Mechanical Room	Sep-96	Sediment in sump sampled for PCBs, TCLP Metals, copper, nickel, thallium, zinc and USEPA hazardous waste F001 through F005 listed solvents	Sediment removed and transported off-site; sump cleaned by high pressure wash	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - no evidence of impacts from sediment to external receptors
Anechoic Chamber	Sep-96	Dirt & Grease on floor sampled for PCBs	Light Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
Solvent Dock	Sep-96	PCBs and Lead	Light Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
90-Day Hazardous Waste Storage Area	Sep-96	PCBs and Lead	Heavy Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
Receiving Dock	Sep-96	Concrete and sediment sampled for PCBs and lead	Heavy Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Confirmatory concrete sampling conducted and was below established cleanup criteria
Oil Pump House	Sep-96	PCBs	Heavy Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
Roof Penthouses	Sep-96	PCBs	Heavy Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required - Samples below established cleanup criteria
Metals Parts Manufacturing & Printed Board Areas	Sep-96	Sampling not completed due to concrete floor removal & replacement in 1991-1992	Light Industrial Cleaning	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required
Radioactive Equipment Closeout Survey	Sep-96	ionizing source radiation	Not conducted (NYCRR v12 p38 does not require survey)	Closure Report [Decommissioning and Decontamination (D&D) Report] (Sept. 1996)	No Action Required