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ENVIRONMENT

Mr. Larry A. Rosenmann
New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials
Bureau of Hazardous Waste and Radiation Management
9th floor
625 Broadway
Albany, New York 12233-7258

Subject:
Revised Tables, Figures, and Appendices
Corrective Measures Study Report
Solvent Dock Area
Former Lockheed Martin French Road Facility
Utica, New York

Date:
July 6, 2009

Contact:
Jeffrey Bonsteel
Phone:
518.452.7826

Email:
jeffreybonsteel@arcadis-us.com

Dear Mr. Rosenmann:

On behalf of Lockheed Martin Corporation, ARCADIS is submitting the enclosed revised tables, figures, and appendices for the Corrective Measures Study Report (CMS Report) for the above referenced facility. The CMS Report was initially submitted to the New York Department of Environmental Conservation on 16 March 2009.

As noted in the 16 March 2009 transmittal letter, ARCADIS had not received the Category B data deliverables for five of the twelve data packages contained within the CMS Report at the time of agency submittal. As such, associated Data Usability Summary Reports (or DUSRs) were also not completed. As stated in the March 16th letter, upon receipt and review of these deliverables, ARCADIS would provide a replacement tables, figures, and appendices (as appropriate) to the Department. This transmittal addresses that commitment.

Included within this transmittal are the following replacement tables, figures, and appendices to the CMS Report. These are intended to replace those tables, figures, and appendices currently within the 16 March 2009 document. Replacement pages and CDs are identified with amendment dates. Please remove original tables and figures from the three-ring binders and insert the amended versions. Similarly, please replace CDs in the report pockets with amended versions. Replacements are as follows:

- Table 4. AOC-1 – Volatile Organic Compounds in Hydropunch Groundwater Samples
- Table 13. AOC-3 – Volatile Organic Compounds in Soil Samples from Exterior Borings
- Figure 9 – AOC 1 – CVOC Groundwater Quality
- Figure 10 – AOC 1 – BTEX Groundwater Quality
- Figure 11 – AOC 1 – Other VOCs Detected in Groundwater
- Appendix G – Laboratory Analytical Data Packages (electronic format)
- Appendix J – Data Usability Summary Reports (electronic format)

The results of the review of the remaining Category B data deliverables and associated DUSRs resulted in the qualification of several volatile organic compounds as estimated concentrations. The qualified data are limited to VOCs within the hydropunch samples (Table 3) and one soil sample [MW-14(50-52')]. The qualification of these data as estimated does not change the analysis of the data, nor any of the conclusions or recommendations as presented within the CMS Report.

Please contact ARCADIS if you have any questions.

Sincerely,

ARCADIS U.S., Inc.

Jeffrey J. Bonsteel
Project Scientist

Christopher J. Motta, C.P.G.
Principal

Copies:

Mr. Gregory A. Rys (NYSDOH)
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Mr. Paul Regusa (ConMed)
Executive Director (OCIDA)
Mr. Christopher H. Horan, Esq. (NYSDEC) [without enclosure]
Mr. Edward Blackmer, P.E. (NYSDEC) [without enclosure]

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Table 4. AOC 1 - Volatile Organic Compounds in Hydropunch Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	HP (15) [15-feet bgs] 5/22/2008	HP (20) [20-feet bgs] 5/23/2008	HP (25) [25-feet bgs] 5/23/2008	HP (30) [30-feet bgs] 5/23/2008
1,1,1-TRICHLOROETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
1,1,2,2-TETRACHLOROETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
1,1,2-TRICHLOROETHANE	1	< 5 J	< 5 J	< 5 J	< 5 J
1,1-DICHLOROETHANE	5	**14 J**	4.7 J	< 5 J	< 5 J
1,1-DICHLOROETHENE	0.7	**0.90 J**	< 5 J	< 5 J	< 5 J
1,2,4-TRICHLOROBENZENE	5	< 5 J	< 5 J	< 5 J	< 5 J
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5 J	< 5 J	< 5 J	< 5 J
1,2-DIBROMOETHANE	NS	< 5 J	< 5 J	< 5 J	< 5 J
1,2-DICHLOROBENZENE	3	< 5 J	< 5 J	< 5 J	< 5 J
1,2-DICHLOROETHANE	0.6	< 5 J	< 5 J	< 5 J	< 5 J
1,2-DICHLOROPROPANE	1	< 5 J	< 5 J	< 5 J	< 5 J
1,3-DICHLOROBENZENE	3	< 5 J	< 5 J	< 5 J	< 5 J
1,4-DICHLOROBENZENE	3	< 5 J	< 5 J	< 5 J	< 5 J
2-BUTANONE	50	< 25 J	< 25 J	1.5 J	< 25 J
2-HEXANONE	50	< 25 J	< 25 J	< 25 J	< 25 J
4-METHYL-2-PENTANONE	NS	< 25 J	< 25 J	< 25 J	< 25 J
ACETONE	50	7.0 J	12 J	10 J	8.1 J
BENZENE	1	< 5 J	< 5 J	< 5 J	< 5 J
BROMODICHLOROMETHANE	50	< 5 J	< 5 J	< 5 J	< 5 J
BROMOFORM	50	< 5 J	< 5 J	< 5 J	< 5 J
BROMOMETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
CARBON DISULFIDE	NS	< 5 J	< 5 J	< 5 J	< 5 J
CARBON TETRACHLORIDE	5	< 5 J	< 5 J	< 5 J	< 5 J
CHLOROBENZENE	5	< 5 J	< 5 J	< 5 J	< 5 J
CHLOROETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
CHLOROFORM	7	< 5 J	< 5 J	< 5 J	< 5 J
CHLOROMETHANE	NS	< 5 J	< 5 J	< 5 J	< 5 J
CIS-1,2-DICHLOROETHENE	5	**40 J**	**17**	1.6 J	< 5 J
CIS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 5 J	< 5 J	< 5 J
CYCLOHEXANE	NS	< 5 J	< 5 J	< 5 J	< 5 J
DIBROMOCHLOROMETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
DICHLORODIFLUOROMETHANE	5	< 5 J	< 5 J	< 5 J	< 5 J
ETHYLBENZENE	5	< 5 J	< 5 J	< 5 J	< 5 J
ISOPROPYLBENZENE	5	< 5 J	< 5 J	< 5 J	< 5 J
METHYL ACETATE	NS	< 5 J	< 5 J	< 5 J	< 5 J
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5 J	< 5 J	< 5 J	< 5 J
METHYLCYCLOHEXANE	NS	< 5 J	< 5 J	< 5 J	< 5 J
METHYLENE CHLORIDE	5	< 5 J	< 5 J	< 5 J	< 5 J
STYRENE (MONOMER)	5	< 5 J	< 5 J	< 5 J	< 5 J
TETRACHLOROETHENE	5	**9.2 J**	4.9 J	< 5 J	< 5 J
TOLUENE	5	< 5 J	< 6 J	< 5 J	< 5 J
XYLENE (TOTAL)	5	< 15 J	< 15 J	< 15 J	< 15 J
TRANS-1,2-DICHLOROETHENE	5	1.7 J	0.54 J	< 5 J	< 5 J
TRANS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 6 J	< 5 J	< 5 J
TRICHLOROETHENE	5	**28 J**	**16 J**	< 5 J	< 5 J
TRICHLOROFLUOROMETHANE	5	< 5 J	< 6 J	< 5 J	< 5 J
VINYL CHLORIDE	2	**20 J**	**14 J**	1.8 J	< 5 J

Notes:
Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
bgs - below ground surface
Exceedences noted in **bold**.
J - Estimated Value

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Table 13. AOC 3 - Volatile Organic Compounds in Soil Samples from Exterior Borings, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC STANDARDS	B-2 (8-10) 5/20/2008	B-2 (10-12) 5/20/2008	B-2 (28-28.9) 5/20/2008	MW-14 (6-8) 5/27/2008	MW-14 (10-12) 5/27/2008	MW-14 (16-18) 5/27/2008	MW-14 (50-52) 5/29/2008	MW-15 (8-10) 6/2/2008
1,1,1-TRICHLOROETHANE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
1,1,2,2-TETRACHLOROETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,1,2-TRICHLOROETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,1-DICHLOROETHANE	480,000	< 5	6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,1-DICHLOROETHENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,2,4-TRICHLOROBENZENE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
1,2-DIBROMO-3-CHLOROPROPANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
1,2-DIBROMOETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,2-DICHLOROBENZENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,2-DICHLOROETHANE	60,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
1,2-DICHLOROPROPANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
1,3-DICHLOROBENZENE	560,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
1,4-DICHLOROBENZENE	250,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
2-BUTANONE	1,000,000	< 26	< 30	< 27	< 30	< 28	< 26	< 26 J	< 26
2-HEXANONE	NS	< 26	< 30	< 27	< 30	< 28	< 26	< 26 J	< 26
4-METHYL-2-PENTANONE	NS	< 26	< 30	< 27	< 30	< 28	< 26	< 26 J	< 26
ACETONE	1,000,000	6 J	< 30	50	< 30	8 J	< 26	< 26	31
BENZENE	89,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
BROMODICHLOROMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
BROMOFORM	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
BROMOMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CARBON DISULFIDE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CARBON TETRACHLORIDE	44,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
CHLOROBENZENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CHLOROETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CHLOROFORM	700,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CHLOROMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CIS-1,2-DICHLOROETHENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CIS-1,3-DICHLOROPROPENE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
CYCLOHEXANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
DIBROMOCHLOROMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
DICHLORODIFLUOROMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
ETHYLBENZENE	780,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
ISOPROPYLBENZENE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
METHYL ACETATE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5 J
METHYL-T-BUTYL ETHER (MTBE)	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
METHYLCYCLOHEXANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
METHYLENE CHLORIDE	1,000,000	9	17	14	5 J	5 J	5	6 J	6
STYRENE (MONOMER)	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
TETRACHLOROETHENE	300,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
TOLUENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	5 J	< 5
XYLENE (TOTAL)	1,000,000	< 16	< 18	< 16	< 18	< 16	< 16	< 16 J	< 16
TRANS-1,2-DICHLOROETHENE	1,000,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
TRANS-1,3-DICHLOROPROPENE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
TRICHLOROETHENE	400,000	< 5	< 6	< 5	< 6	< 6	< 5	< 5	< 5
TRICHLOROFLUOROMETHANE	NS	< 5	< 6	< 5	< 6	< 6	< 5	< 5 J	< 5
VINYL CHLORIDE	27,000	< 10	9 J	< 11	< 12	< 11	< 10	< 10 J	< 10

Notes:
All units are ug/kg unless otherwise noted
Data compared to 6 NYCRR Part 375 Restricted Use - Industrial Soil Cleanup Objectives
NS - No Standard
Exceedences noted in **bold**.
J - Estimated Value

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Table 13. AOC 3 - Volatile Organic Compounds in Soil Samples from Exterior Borings, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC STANDARDS	MW-15 (14-16) 6/2/2008	MW-15 (22-24') 6/2/2008	MW-15 (52-52.3) 6/2/2008
1,1,1-TRICHLOROETHANE	1,000,000	< 5	< 5	< 5
1,1,2,2-TETRACHLOROETHANE	NS	< 5	< 5	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	NS	< 5	< 5	< 5
1,1,2-TRICHLOROETHANE	NS	< 5	< 5	< 5
1,1-DICHLOROETHANE	480,000	< 5	< 5	< 5
1,1-DICHLOROETHENE	1,000,000	< 5	< 5	< 5
1,2,4-TRICHLOROBENZENE	NS	< 5	< 5	< 5
1,2-DIBROMO-3-CHLOROPROPANE	NS	< 5	< 5	< 5
1,2-DIBROMOETHANE	NS	< 5	< 5	< 5
1,2-DICHLOROBENZENE	1,000,000	< 5	< 5	< 5
1,2-DICHLOROETHANE	60,000	< 5	< 5	< 5
1,2-DICHLOROPROPANE	NS	< 5	< 5	< 5
1,3-DICHLOROBENZENE	560,000	< 5	< 5	< 5
1,4-DICHLOROBENZENE	250,000	< 5	< 5	< 5
2-BUTANONE	1,000,000	< 27	< 27	< 27
2-HEXANONE	NS	< 27	< 27	< 27
4-METHYL-2-PENTANONE	NS	< 27	< 27	< 27
ACETONE	1,000,000	11 J	13 J	15 J
BENZENE	89,000	< 5	< 5	< 5
BROMODICHLOROMETHANE	NS	< 5	< 5	< 5
BROMOFORM	NS	< 5	< 5	< 5
BROMOMETHANE	NS	< 5	< 5	< 5
CARBON DISULFIDE	NS	< 5	< 5	< 5
CARBON TETRACHLORIDE	44,000	< 5	< 5	< 5
CHLOROBENZENE	1,000,000	< 5	< 5	< 5
CHLOROETHANE	NS	< 5	< 5	< 5
CHLOROFORM	700,000	1 J	< 5	< 5
CHLOROMETHANE	NS	< 5	< 5	< 5
CIS-1,2-DICHLOROETHENE	1,000,000	< 5	< 5	< 5
CIS-1,3-DICHLOROPROPENE	NS	< 5	< 5	< 5
CYCLOHEXANE	NS	< 5	< 5	< 5
DIBROMOCHLOROMETHANE	NS	< 5	< 5	< 5
DICHLORODIFLUOROMETHANE	NS	< 5	< 5	< 5
ETHYLBENZENE	780,000	< 5	< 5	< 5
ISOPROPYLBENZENE	NS	< 5	< 5	< 5
METHYL ACETATE	NS	< 5 J	< 5 J	< 5 J
METHYL-T-BUTYL ETHER (MTBE)	1,000,000	< 5	< 5	< 5
METHYLCYCLOHEXANE	NS	< 5	< 5	< 5
METHYLENE CHLORIDE	1,000,000	5	7	9
STYRENE (MONOMER)	NS	< 5	< 5	< 5
TETRACHLOROETHENE	300,000	< 5	< 5	< 5
TOLUENE	1,000,000	< 5	< 5	< 5
XYLENE (TOTAL)	1,000,000	< 16	< 16	< 16
TRANS-1,2-DICHLOROETHENE	1,000,000	< 5	< 5	< 5
TRANS-1,3-DICHLOROPROPENE	NS	< 5	< 5	< 5
TRICHLOROETHENE	400,000	< 5	< 5	< 5
TRICHLOROFLUOROMETHANE	NS	< 5	< 5	< 5
VINYL CHLORIDE	27,000	< 11	< 11	< 11

Notes:
All units are ug/kg unless otherwise noted
Data compared to 6 NYCRR Part 375 Restricted Use - Industrial Soil Cleanup Objectives
NS - No Standard
Exceedences noted in **bold**.
J - Estimated Value

CHAINLINK FENCE

FIRE TANK

TANK BUILDING

2 STORY MASONRY BOILER HOUSE

EDGE OF ASPHALT

ASPHALT (POOR CONDITION)

1 STORY WOOD FRAME

1 STORY MASONRY MAINTENANCE BUILDING

1 STORY METAL STORAGE BUILDING

1 STORY RAISED METAL BUILDING

1 STORY BRICK GUARD HOUSE

GROUND WATER TREATMENT BUILDING

WASTEWATER TREATMENT BUILDING

HAZARDOUS WASTE STORAGE BUILDING

2 STORY MASONRY CON MED FACILITY

CONCRETE CURB

EDGE OF GRAVEL

CONCRETE CURB

CHAINLINK FENCE

EDGE OF ASPHALT

PZ-02 PZ-04 PZ-8 PZ-5 PZ-6 PZ-12 PZ-11 PZ-16 PZ-15 PZ-14 PZ-13 PZ-9 PZ-7 PZ-10

MW 9 MW 10 MW-4 MW-5 MW 13S MW 13T MW 2 HP MW 3 MW 13BR MW 1 MW 11 MW 8 MW 7 MW 14S MW-14BR MW-15BR MW 15S

MH-1 MH-2 MH-7A CB-1 CB-2 CB-3

0 40 80 120
SCALE IN FEET

CONSTITUENT	MW-13BR 7/30/2008	10/3/2008	2/5/2009
1,1-DICHLOROETHANE	< 5	< 1	<1
1,1-DICHLOROETHENE	< 5	< 1	<1
CHLOROFORM	< 5	< 1	<1
CIS-1,2-DICHLOROETHENE	< 5	< 1	<1
TETRACHLOROETHENE	< 5	< 1	<1
TRICHLOROETHENE	< 5	< 1	<1
VINYL CHLORIDE	< 5	< 1	<1

CONSTITUENT	MW-4 7/30/2008	10/2/2008
1,1-DICHLOROETHANE	1.1 J	1.9
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	4.6 J	**7.1**
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	2.0 J	**3.2**

CONSTITUENT	MW-13T 7/30/2008	10/3/2008
1,1-DICHLOROETHANE	**6.2**	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	2.5 J	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	**26**	< 1

CONSTITUENT	MW-3 7/30/2008	10/2/2008
1,1-DICHLOROETHANE	**5.2**	5.0
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	**53**	**86**
TETRACHLOROETHENE	**40**	**12**
TRICHLOROETHENE	**55**	**29**
VINYL CHLORIDE	**4.8 J**	**4.0**

CONSTITUENT	MW-13S 7/30/2008
1,1-DICHLOROETHANE	4.6 J
1,1-DICHLOROETHENE	< 5
CHLOROFORM	< 5
CIS-1,2-DICHLOROETHENE	< 5
TETRACHLOROETHENE	< 5
TRICHLOROETHENE	0.53 J
VINYL CHLORIDE	< 5

CONSTITUENT	MW-9 7/30/2008	10/2/2008
1,1-DICHLOROETHANE	0.88 J	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	2.5 J	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	**7.8**	< 1

CONSTITUENT	PZ-8 8/6/2008	10/2/2008
1,1-DICHLOROETHANE	< 20	< 4
1,1-DICHLOROETHENE	< 20	< 4
CHLOROFORM	**20**	**8.2**
CIS-1,2-DICHLOROETHENE	1.8 J	5.0
TETRACHLOROETHENE	**14 J**	**41**
TRICHLOROETHENE	4.1 J	**9.4**
VINYL CHLORIDE	< 20	< 4

CONSTITUENT	PZ-5 8/6/2008	10/2/2008
1,1-DICHLOROETHANE	< 20	< 4
1,1-DICHLOROETHENE	< 20	< 4
CHLOROFORM	< 20	< 4
CIS-1,2-DICHLOROETHENE	**26**	**87**
TETRACHLOROETHENE	**8.6 J**	4.2
TRICHLOROETHENE	**9.5 J**	**37**
VINYL CHLORIDE	**5.9 J**	**37**

CONSTITUENT	PZ-13 11/4/2008	12/11/2008
1,1-DICHLOROETHANE	<1	<1
1,1-DICHLOROETHENE	<1	<1
CHLOROFORM	<1	<1
CIS-1,2-DICHLOROETHENE	4.1	<1
TETRACHLOROETHENE	**5.7**	1.9
TRICHLOROETHENE	2.6	0.53
VINYL CHLORIDE	<1	<1

CONSTITUENT	PZ-2 7/29/2008	10/2/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	0.43 J	0.52 J
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	PZ-4 7/30/2008
1,1-DICHLOROETHANE	0.90 J
1,1-DICHLOROETHENE	< 5
CHLOROFORM	< 5
CIS-1,2-DICHLOROETHENE	2.7 J
TETRACHLOROETHENE	0.80 J
TRICHLOROETHENE	< 5
VINYL CHLORIDE	< 5

CONSTITUENT	MW-5 7/30/2008	10/3/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	MW-10 7/30/2008	10/3/2008
1,1-DICHLOROETHANE	6.9	2.0
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	**41**	**25**
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	3.9 J	1.7
VINYL CHLORIDE	**38**	**22**

CONSTITUENT	HP (15) [15-feet bgs] 5/22/2008	HP (20) [20-feet bgs] 5/23/2008	HP (25) [25-feet bgs] 5/23/2008	HP (30) [30-feet bgs] 5/23/2008
1,1-DICHLOROETHANE	< 5 J	4.7 J	< 5 J	< 5 J
1,1-DICHLOROETHENE	**0.90 J**	< 5 J	< 5 J	< 5 J
CHLOROFORM	< 5 J	< 5 J	< 5 J	< 5 J
CIS-1,2-DICHLOROETHENE	< 5 J	**17**	1.6 J	< 5 J
TETRACHLOROETHENE	**9.2 J**	4.9 J	< 5 J	< 5 J
TRICHLOROETHENE	**28 J**	**16 J**	< 5 J	< 5 J
VINYL CHLORIDE	**20 J**	**14 J**	1.8 J	< 5 J

CONSTITUENT	MW-2 7/30/2008	10/2/2008
1,1-DICHLOROETHANE	**7.0**	**5.3**
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	**12**	**11**
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	0.62 J	< 1
VINYL CHLORIDE	**36**	**28**

CONSTITUENT	MW-1 7/30/2008	10/3/2008
1,1-DICHLOROETHANE	**8.3**	**6.0**
1,1-DICHLOROETHENE	0.57 J	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	**54**	**43**
TETRACHLOROETHENE	**60**	**18**
TRICHLOROETHENE	**18**	**7.6**
VINYL CHLORIDE	**4.7 J**	**3.9**

CONSTITUENT	PZ-9 8/6/2008	10/2/2008	2/5/2009
1,1-DICHLOROETHANE	3.0 J	1.9	1.3
1,1-DICHLOROETHENE	< 5	< 1	<1
CHLOROFORM	0.40 J	< 1	<1
CIS-1,2-DICHLOROETHENE	< 5	< 1	<1
TETRACHLOROETHENE	< 5	< 1	<1
TRICHLOROETHENE	< 5	< 1	0.27 J
VINYL CHLORIDE	< 5	< 1	<1

CONSTITUENT	PZ-6 8/6/2008	10/2/2008
1,1-DICHLOROETHANE	< 20	< 4
1,1-DICHLOROETHENE	< 20	< 4
CHLOROFORM	< 20	< 4
CIS-1,2-DICHLOROETHENE	**19 J**	**62**
TETRACHLOROETHENE	**14 J**	< 4
TRICHLOROETHENE	**19 J**	**14**
VINYL CHLORIDE	**9.6 J**	**25**

CONSTITUENT	PZ-7 8/6/2008	10/2/2008
1,1-DICHLOROETHANE	0.91 J	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	0.94 J	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	PZ-12 12/11/2008
1,1-DICHLOROETHANE	<1
1,1-DICHLOROETHENE	<1
CHLOROFORM	<1
CIS-1,2-DICHLOROETHENE	**10**
TETRACHLOROETHENE	**45**
TRICHLOROETHENE	**18**
VINYL CHLORIDE	<1

CONSTITUENT	PZ-10 8/6/2008	10/2/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	0.54 J
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	PZ-16 12/11/2008
1,1-DICHLOROETHANE	<1
1,1-DICHLOROETHENE	<1
CHLOROFORM	0.78
CIS-1,2-DICHLOROETHENE	**5.5**
TETRACHLOROETHENE	**8.6**
TRICHLOROETHENE	**10**
VINYL CHLORIDE	<1

CONSTITUENT	MW-7 7/29/2008	10/1/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	0.68 J	0.98 J
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	MW-11 7/29/2008	10/1/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	< 5	< 1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	PZ-14 12/11/2008
1,1-DICHLOROETHANE	<1
1,1-DICHLOROETHENE	<1
CHLOROFORM	<1
CIS-1,2-DICHLOROETHENE	2.5
TETRACHLOROETHENE	1.8
TRICHLOROETHENE	1.2
VINYL CHLORIDE	<1

CONSTITUENT	PZ-15 12/11/2008
1,1-DICHLOROETHANE	<1
1,1-DICHLOROETHENE	<1
CHLOROFORM	<1
CIS-1,2-DICHLOROETHENE	**9.6**
TETRACHLOROETHENE	**6.7**
TRICHLOROETHENE	**6.5**
VINYL CHLORIDE	<1

CONSTITUENT	MW-15BR 7/29/2008	10/1/2008	2/5/2009
1,1-DICHLOROETHANE	< 5	< 1	<1
1,1-DICHLOROETHENE	< 5	< 1	<1
CHLOROFORM	**11**	5.4	1.1
CIS-1,2-DICHLOROETHENE	< 5	< 1	<1
TETRACHLOROETHENE	< 5	< 1	<1
TRICHLOROETHENE	< 5	< 1	<1
VINYL CHLORIDE	< 5	< 1	<1

CONSTITUENT	MW-15S 7/29/2008	10/3/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	4.3 J	4.5
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	MW-14S 7/29/2008	10/1/2008
1,1-DICHLOROETHANE	< 5	< 1
1,1-DICHLOROETHENE	< 5	< 1
CHLOROFORM	2.2 J	2.1
CIS-1,2-DICHLOROETHENE	< 5	< 1
TETRACHLOROETHENE	< 5	< 1
TRICHLOROETHENE	< 5	< 1
VINYL CHLORIDE	< 5	< 1

CONSTITUENT	PZ-11 11/4/2008	12/11/2008
1,1-DICHLOROETHANE	<1	<2
1,1-DICHLOROETHENE	<1	<2
CHLOROFORM	0.83 J	<2
CIS-1,2-DICHLOROETHENE	**8.8**	2.7
TETRACHLOROETHENE	**95**	**15**
TRICHLOROETHENE	**33**	4.5
VINYL CHLORIDE	<1	<2

CONSTITUENT	MW-14BR 7/29/2008	10/1/2008	2/5/2009
1,1-DICHLOROETHANE	< 40	< 1	<1
1,1-DICHLOROETHENE	< 40	< 1	<1
CHLOROFORM	**14 J**	**7.5**	3.3
CIS-1,2-DICHLOROETHENE	< 40	< 1	<1
TETRACHLOROETHENE	< 40	< 1	<1
TRICHLOROETHENE	< 40	< 1	<1
VINYL CHLORIDE	< 40	< 1	<1

LEGEND:

- MW 10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- HP — APPROXIMATE HYDROPUNCH SAMPLE LOCATION
- SAMPLE RESULTS EXCEED STANDARDS

CONSTITUENT	NYSDEC GW STANDARDS
1,1-DICHLOROETHANE	5
1,1-DICHLOROETHENE	0.7
CHLOROFORM	7
CIS-1,2-DICHLOROETHENE	5
TETRACHLOROETHENE	5
TRICHLOROETHENE	5
VINYL CHLORIDE	2

NOTES:

1. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L).
2. DATA COMPARED TO TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
3. EXCEEDENCES OF STANDARDS AND GUIDANCE VALUES NOTED IN BOLD.
4. J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
5. LOCATIONS SURVEYED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). VERTICAL SURVEY CONTROL IS AN ON-SITE BENCHMARK AT THE SE CORNER OF THE BOILER HOUSE BUILDING IDENTIFIED AS 506.50 FEET.
6. SEE FIGURE 11 FOR WATER QUALITY RESULTS FOR MH-1, MH-2, CB-1, CB-2, CB-3 AND MH-7A.

CORRECTIVE MEASURES STUDY REPORT
FORMER LOCKHEED MARTIN
FRENCH ROAD FACILITY
UTICA, NEW YORK

AOC 1 - CVOC GROUNDWATER QUALITY

ARCADIS

FIGURE
9

CHAINLINK FENCE

2 STORY MASONRY BOILER HOUSE

FIRE TANK

TANK BUILDING

EDGE OF ASPHALT

ASPHALT (POOR CONDITION)

1 STORY MASONRY MAINTENANCE BUILDING

1 STORY WOOD FRAME

1 STORY RAISED METAL BUILDING

1 STORY METAL STORAGE BUILDING

2 STORY MASONRY CON MED FACILITY

GROUND WATER TREATMENT BUILDING

1 STORY BRICK GUARD HOUSE

WASTEWATER TREATMENT BUILDING

HAZARDOUS WASTE STORAGE BUILDING

EDGE OF GRAVEL

EDGE OF DRIVE

CONCRETE CURB

CHAINLINK FENCE

CONCRETE CURB

CHAINLINK FENCE

PZ-02 PZ-04 PZ-8 PZ-5 PZ-6 PZ-12 PZ-11 PZ-16 PZ-15 PZ-14 PZ-13 PZ-9 PZ-7 PZ-10

MW 9 MW-4 MW-5 MW 10 MW 13S MW 13T MW 2 MW 3 MW 1 MW 13BR MW 11 MW 7 MW 15BR MW 15S MW 14S MW 14BR

CB-1 CB-2 CB-3 MH-1 MH-2 MH-7A

HP

CONSTITUENT	PZ-2 7/29/2008	PZ-2 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-9 7/30/2008	MW-9 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-4 7/30/2008	MW-4 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-13T 7/30/2008	MW-13T 10/3/2008
BENZENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
TOLUENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-3 7/30/2008	MW-3 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	PZ-8 8/6/2008	PZ-8 10/2/2008
BENZENE	< 20	< 4
TOLUENE	< 20	< 4
ETHYLBENZENE	< 20	< 4
XYLENE (TOTAL)	< 60	< 12

CONSTITUENT	PZ-4 7/30/2008
BENZENE	< 5
TOLUENE	< 5
ETHYLBENZENE	< 5
XYLENE (TOTAL)	< 15

CONSTITUENT	MW-13S 7/30/2008
BENZENE	< 5
TOLUENE	< 5
ETHYLBENZENE	< 5
XYLENE (TOTAL)	< 15

CONSTITUENT	MW-5 7/30/2008	MW-5 10/3/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	PZ-5 8/6/2008	PZ-5 10/2/2008
BENZENE	< 20	< 4
TOLUENE	< 20	< 4
ETHYLBENZENE	**10 J**	1.7 J
XYLENE (TOTAL)	**34 J**	3.9 J

CONSTITUENT	PZ-12 12/11/2008
BENZENE	<1
TOLUENE	<1
ETHYLBENZENE	<1
XYLENES (TOTAL)	<3

CONSTITUENT	PZ-16 12/11/2008
BENZENE	<1
TOLUENE	<1
ETHYLBENZENE	<1
XYLENES (TOTAL)	<3

CONSTITUENT	PZ-14 12/11/2008
BENZENE	<1
TOLUENE	<1
ETHYLBENZENE	<1
XYLENES (TOTAL)	<3

CONSTITUENT	PZ-13 11/4/2008	PZ-13 12/11/2008
BENZENE	<1	<1
TOLUENE	<1	<1
ETHYLBENZENE	<1	<1
XYLENES (TOTAL)	<3	<3

CONSTITUENT	PZ-15 12/11/2008
BENZENE	<1
TOLUENE	<1
ETHYLBENZENE	<1
XYLENES (TOTAL)	<3

CONSTITUENT	PZ-11 11/4/2008	PZ-11 12/11/2008
BENZENE	<1	<2
TOLUENE	<1	<2
ETHYLBENZENE	<1	<2
XYLENES (TOTAL)	<3	<6

CONSTITUENT	MW-11 7/29/2008	MW-11 10/1/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	PZ-6 8/6/2008	PZ-6 10/2/2008
BENZENE	< 20	< 4
TOLUENE	< 20	< 4
ETHYLBENZENE	< 20	< 4
XYLENE (TOTAL)	< 20	< 12

CONSTITUENT	PZ-10 8/6/2008	PZ-10 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-7 7/29/2008	MW-7 10/1/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-10 7/30/2008	MW-10 10/3/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 5	< 3

CONSTITUENT	HP (15) [15-feet bgs] 5/22/2008	HP (20) [20-feet bgs] 5/23/2008	HP (25) [25-feet bgs] 5/23/2008	HP (30) [30-feet bgs] 5/23/2008
BENZENE	< 5 J	< 5 J	< 5 J	< 5 J
TOLUENE	< 5 J	< 6 J	< 5 J	< 5 J
ETHYLBENZENE	< 5 J	< 5 J	< 5 J	< 5 J
XYLENE (TOTAL)	< 15 J	< 15 J	< 15 J	< 15 J

CONSTITUENT	MW-2 7/30/2008	MW-2 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	MW-13S 7/30/2008
BENZENE	< 5
TOLUENE	< 5
ETHYLBENZENE	< 5
XYLENE (TOTAL)	< 15

CONSTITUENT	MW-13BR 7/30/2008	MW-13BR 10/3/2008	MW-13BR 2/5/2009
BENZENE	< 5	< 1	<1
TOLUENE	< 5	< 1	<1
ETHYLBENZENE	< 5	< 1	<1
XYLENE (TOTAL)	< 15	< 3	<3

CONSTITUENT	MW-1 7/30/2008	MW-1 10/3/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONSTITUENT	PZ-9 8/6/2008	PZ-9 10/2/2008	PZ-9 2/5/2008
BENZENE	< 5	< 1	<1
TOLUENE	< 5	< 1	<1
ETHYLBENZENE	< 5	< 1	<1
XYLENE (TOTAL)	< 15	< 3	<3

CONSTITUENT	PZ-7 8/6/2008	PZ-7 10/2/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

CONCRETE CURB

EDGE OF ASPHALT

CONSTITUENT	MW-15BR 7/29/2008	MW-15BR 10/1/2008	MW-15BR 2/5/2009
BENZENE	< 5	< 1	<1
TOLUENE	< 5	< 1	<1
ETHYLBENZENE	< 5	< 1	<1
XYLENE (TOTAL)	< 15	< 3	<3

CONSTITUENT	MW-15S 7/29/2008	MW-15S 10/3/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

EDGE OF ASPHALT

CONSTITUENT	MW-14S 7/29/2008	MW-14S 10/1/2008
BENZENE	< 5	< 1
TOLUENE	< 5	< 1
ETHYLBENZENE	< 5	< 1
XYLENE (TOTAL)	< 15	< 3

EDGE OF ASPHALT

CONSTITUENT	MW-14BR 7/29/2008	MW-14BR 10/1/2008	MW-14BR 2/5/2009
BENZENE	< 40	< 1	<1
TOLUENE	< 40	< 1	<1
ETHYLBENZENE	< 40	< 1	<1
XYLENE (TOTAL)	< 120	< 3	<3

NTS Grid

0 40 80 120
SCALE IN FEET

LEGEND:

- MW 10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- HP — APPROXIMATE HYDROPUNCH SAMPLE LOCATION
- SAMPLE RESULTS EXCEED STANDARDS

CONSTITUENT	NYSDEC GW STANDARDS
BENZENE	1
TOLUENE	5
ETHYLBENZENE	5
XYLENE (TOTAL)	5

NOTES:

1. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L).
2. DATA COMPARED TO TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
3. EXCEEDENCES OF STANDARDS AND GUIDANCE VALUES NOTED IN BOLD.
4. J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
5. LOCATIONS SURVEYED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). VERTICAL SURVEY CONTROL IS AN ON-SITE BENCHMARK AT THE SE CORNER OF THE BOILER HOUSE BUILDING IDENTIFIED AS 506.50 FEET.
6. SEE FIGURE 11 FOR WATER QUALITY RESULTS FOR MH-1, MH-2, CB-1, CB-2, CB-3 AND MH-7A.

CORRECTIVE MEASURES STUDY REPORT
FORMER LOCKHEED MARTIN
FRENCH ROAD FACILITY
UTICA, NEW YORK

AOC 1 - BTEX GROUNDWATER QUALITY

ARCADIS

FIGURE
10

CHAINLINK FENCE

2 STORY MASONRY BOILER HOUSE

FIRE TANK

TANK BUILDING

EDGE OF ASPHALT

ASPHALT (POOR CONDITION)

1 STORY MASONRY MAINTENANCE BUILDING

1 STORY METAL STORAGE BUILDING

1 STORY BRICK GUARD HOUSE

GROUND WATER TREATMENT BUILDING

1 STORY WOOD FRAME

1 STORY RAISED METAL BUILDING

WASTEWATER TREATMENT BUILDING

EDGE OF GRAVEL

HAZARDOUS WASTE STORAGE BUILDING

CONCRETE CURB

CHAINLINK FENCE

2 STORY MASONRY CON MED FACILITY

ASPHALT (POOR CONDITION)

CB-1

CB-2

CB-3

MH-1

MH-2

MH-7A

PZ-02

PZ-04

PZ-5

PZ-6

PZ-7

PZ-8

PZ-9

PZ-10

PZ-11

PZ-12

PZ-13

PZ-14

PZ-15

PZ-16

MW 1

MW 2

MW 3

MW 4

MW 5

MW 7

MW 8

MW 9

MW 10

MW 11

MW 13S

MW 13T

MW 13BR

HP

MW-15BR

MW 15S

MW 14S

MW-14BR

CONSTITUENT	PZ-2 7/29/2008	PZ-2 10/2/2008
2-BUTANONE	2.6 J	< 5
ACETONE	17 J	11

CONSTITUENT	MW-9 7/30/2008	MW-9 10/2/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	12

CONSTITUENT	PZ-4 7/30/2008
2-BUTANONE	< 25
ACETONE	< 25

CONSTITUENT	MW-13S 7/30/2008
2-BUTANONE	< 25
ACETONE	< 25

CONSTITUENT	MW-4 7/30/2008	MW-4 10/2/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	MW-13T 7/30/2008	MW-13T 10/3/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	10

CONSTITUENT	MW-3 7/30/2008	MW-3 10/2/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	PZ-8 8/6/2008	PZ-8 10/2/2008
2-BUTANONE	< 100	< 20
ACETONE	**770**	37

CONSTITUENT	PZ-5 8/6/2008	PZ-5 10/2/2008
2-BUTANONE	< 100	< 20
ACETONE	41 J	< 20

CONSTITUENT	PZ-12 12/11/2008
2-BUTANONE	<5
ACETONE	3.3

CONSTITUENT	PZ-16 12/11/2008
2-BUTANONE	<5
ACETONE	<5

CONSTITUENT	PZ-14 12/11/2008
2-BUTANONE	<5
ACETONE	6.3

CONSTITUENT	PZ-15 12/11/2008
2-BUTANONE	<5
ACETONE	<5

CONSTITUENT	PZ-13 11/4/2008	PZ-13 12/11/2008
2-BUTANONE	<5	<5
ACETONE	24	4.0

CONSTITUENT	PZ-11 11/4/2008	PZ-11 12/11/2008
2-BUTANONE	<5	<10
ACETONE	<5	3.2

CONSTITUENT	MW-11 7/29/2008	MW-11 10/1/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	PZ-6 8/6/2008	PZ-6 10/2/2008
2-BUTANONE	< 100	< 20
ACETONE	45 J	< 20

CONSTITUENT	PZ-10 8/6/2008	PZ-10 10/2/2008
2-BUTANONE	2.7 J	< 5
ACETONE	26	7.2

CONSTITUENT	MW-7 7/29/2008	MW-7 10/1/2008
2-BUTANONE	< 25	< 5
ACETONE	4.4 J	6.1

CONSTITUENT	HP (15) [15-feet bgs] 5/22/2008	HP (20) [20-feet bgs] 5/23/2008	HP (25) [25-feet bgs] 5/23/2008	HP (30) [30-feet bgs] 5/23/2008
2-BUTANONE	< 25 J	< 25 J	1.5 J	< 25 J
ACETONE	7.0 J	12 J	10 J	8.1 J

CONSTITUENT	MW-2 7/30/2008	MW-2 10/2/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	MW-13BR 7/30/2008	MW-13BR 10/3/2008	MW-13BR 2/5/2009
2-BUTANONE	< 25	< 5	<5
ACETONE	< 25	< 5	3.8 J

CONSTITUENT	MW-1 7/30/2008	MW-1 10/3/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	PZ-9 8/6/2008	PZ-9 10/2/2008	PZ-9 2/5/2009
2-BUTANONE	2.6 J	< 5	<5
ACETONE	**150**	6.9	6.3

CONSTITUENT	PZ-7 8/6/2008	PZ-7 10/2/2008
2-BUTANONE	< 25	< 5
ACETONE	33	13

CONSTITUENT	MW-5 7/30/2008	MW-5 10/3/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	14

CONSTITUENT	MW-10 7/30/2008	MW-10 10/3/2008
2-BUTANONE	< 25	< 5
ACETONE	< 25	< 5

CONSTITUENT	MW-15BR 7/29/2008	MW-15BR 10/1/2008	MW-15BR 2/5/2009
2-BUTANONE	< 25	< 5	1.4 J
ACETONE	6.0 J	5.8	7.2

CONSTITUENT	MW-15S 7/29/2008	MW-15S 10/3/2008
2-BUTANONE	< 25	< 5
ACETONE	1.3 J	5.0

CONSTITUENT	MW-14S 7/29/2008	MW-14S 10/1/2008
2-BUTANONE	< 25	< 5
ACETONE	2.3 J	< 5

CONSTITUENT	MW-14BR 7/29/2008	MW-14BR 10/1/2008	MW-14BR 2/5/2009
2-BUTANONE	< 200	< 5	<5
ACETONE	**2100**	**380**	25

0 40 80 120

SCALE IN FEET

LEGEND:

- MW 10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- HP — HYDROPUNCH LOCATION
- SAMPLE RESULTS EXCEED STANDARDS

CONSTITUENT	NYSDEC GW STANDARDS
2-HEXANONE	50
ACETONE	50

NOTES:

1. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L).
2. DATA COMPARED TO TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES.
3. EXCEEDENCES OF STANDARDS AND GUIDANCE VALUES NOTED IN BOLD.
4. J FLAG IDENTIFIES ESTIMATED CONCENTRATION.
5. LOCATIONS SURVEYED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). VERTICAL SURVEY CONTROL IS AN ON-SITE BENCHMARK AT THE SE CORNER OF THE BOILER HOUSE BUILDING IDENTIFIED AS 506.50 FEET.
6. SEE FIGURE 11 FOR WATER QUALITY RESULTS FOR MH-1, MH-2, CB-1, CB-2, CB-3 AND MH-7A.

CORRECTIVE MEASURES STUDY REPORT

FORMER LOCKHEED MARTIN
FRENCH ROAD FACILITY
UTICA, NEW YORK

AOC 1 - OTHER VOCs DETECTED IN GROUNDWATER

ARCADIS

FIGURE 11