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March 6, 2006  
File: 94-022

Mr. Glenn M. May, CPG  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region 9  
270 Michigan Avenue  
Buffalo, New York 14203-2999

Re: 2005 Operation, Maintenance and Monitoring Report,  
Chem-Trol Site,  
NYSDEC ID Number 9-15-015

Dear Mr. May,

This letter was prepared by McMahon & Mann Consulting Engineers, P.C. (MMCE) for SC Holdings, Inc. presenting the yearly operation and maintenance (O & M) information for the soil vapor extraction (SVE) and groundwater collection and treatment (GWCT) systems at the Chem-Trol site through December 2005.

The attached information is organized as follows.

### **SOIL VAPOR EXTRACTION SYSTEM**

The SVE system was operated during the period from January 2005 through December 2005. MMCE made site visits during the year to observe operation of the SVE system and perform maintenance as required. Observed conditions and maintenance performed are summarized in Attachment A.

### **GROUND WATER COLLECTION AND TREATMENT SYSTEM**

The GWCT system was operated during the period from January 2005 to December 2005. The system was not operated between October 4 and October 11, 2005, due to erratic power supply delivered by NYSEG. The system was restarted the same day that NYSEG corrected its problem.

The GWCT system was found to be operating erratically on October 20, 2005. Earth Tech (ET) found that Extraction Well 1 (EW-1) had a bad sensor that kept it from running properly. Parts were ordered but further damage occurred during installation and additional parts were ordered. EW-1 was fully repaired on Dec 06, 2005.

EW-2 began to operate erratically later during the same period. On December 6, 2005, the sensor from EW-2 was sent to the factory for testing and repair. The repaired parts for EW-2 were installed on December 22, 2005, but the pump still operated erratically. ET scheduled an electrician to troubleshoot EW-2 during January 2006.

Treated water was discharged to the South Branch of Smokes Creek during 2005.

Monthly monitoring reports detailing influent concentrations before treatment and after treatment and other observations made at the site were transmitted to NYSDEC throughout the year. Monthly site visit reports are in Attachment A.

Quarterly groundwater levels measured in on site monitoring wells are summarized in Table 1. MW 11-R was found to be vandalized and it has been impossible to obtain water levels at that location since June 20, 2005. MMCE plans on attempting a repair of MW-11 in the spring of 2006.

Table 2 presents a summary of measured extraction well water levels and corresponding flow rates. Quarterly ground water contour maps developed from extraction well water levels are provided in Attachment B.

## **GROUNDWATER QUALITY MONITORING**

On November 11, 2005 Severn Trent Laboratories (STL) collected groundwater samples from MW-3S, MW-7R, MW-8R, MW-9R, MW-13R and MW-15R for target compound list (TCL) volatile organic compounds (VOCs) analysis. The analytical test result report prepared by STL is included as Attachment C.

Yearly test results for MW-3S, MW-7R, MW-8R, MW-9R, MW-13R and MW-15R are summarized in Table 3.

Please call if you have any questions regarding this information.

Sincerely,

**McMAHON & MANN CONSULTING ENGINEERS, P.C.**

Thomas R. Heins, P.E.

cc: David Moreira (SC Holdings, Inc.)

Attachments

Table 1 - Monitoring Well Water Levels

Table 2 - Extraction Well Water Levels and Flow Summary

Table 3 - Summary of Groundwater Analytical Test Results

Table 4 -Summary of Monthly Influent and Effluent

Attachment A - MMCE Site Visit Data Sheets

Attachment B – Quarterly Groundwater Contour Maps

Attachment C - Groundwater Sample Analytical Test Results, Samples Collected

November 11, 2005

## **Tables**

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| Table 1 | Monitoring Well Water Levels                   |
| Table 2 | Extraction Well Water Levels and Flow Summary  |
| Table 3 | Summary of Groundwater Analytical Test Results |
| Table 4 | Summary of Monthly Influent and Effluent       |

**Table 1**  
**Chem-Trol Site**  
**Summary of Groundwater Elevations Measurements - 2005**

Well	1Q 3/16/2005	2Q 6/15/2005	3Q 9/19/2005	4Q 11/8/2005
OW-1FR	608.50	607.90	608.23	607.91
P97-5	612.42	ice	607.80	608.06
MW10S	612.38	ice	608.50	dry
MW10R	608.47		607.88	608.18
P97-4	612.48	ice	607.80	608.15
MW 13R	608.35		607.85	608.05
MW 8S	610.48		609.77	dry
MW 8R	608.73		608.18	608.42
P97 - 3	608.54		607.87	608.26
MW 9RD	612.51		613.18	612.33
MW 9R	608.45		607.74	608.26
MW 9S	610.46		610.01	610.06
P97 - 2	610.87		610.00	610.19
P97 - 1	612.65		611.62	611.84
MW 12R	612.58		610.50	610.19
MW 12S	617.28		614.22	615.57
MW14R	612.77		612.63	611.94
OW-2FR	608.49		607.79	608.32
MW 4S	622.99		621.78	dry
MW 4R	608.30		607.64	607.97
P4S	620.67		620.58	620.49
MW 3S	619.97		619.34	618.84
P - 3R	620.29		620.42	620.30
P - 3S	620.06		619.73	619.56
OW - 3R	614.99		614.63	614.16
P-5S	626.70		624.39	623.89
P-5R	618.22		617.68	617.59
MW-5S	623.99		622.59	622.68
P-2R	635.93		631.63	629.93
P2-S	633.20		631.94	632.51
MW-2S	635.31		633.96	634.70
MW-11R	617.63			<b>Vandalized</b>
MW-6S	629.74		627.79	627.14
MW 6R	620.25		619.76	619.44
P-1S	636.70		635.25	635.95
MW 1R	634.29		632.90	633.62
MW 1S	636.55		634.33	635.74
MW 7S	638.15		635.73	635.44
MW 7R	637.18		636.78	636.14
				636.13

**Table 2**  
**Chem-Trol Site**  
**Extraction Well Water Levels and Flow Rate Summary**

2005					Notes:
Date	EW-1	EW-2	EW-3	Flow (gpm)	
31-Jan	600.0	604.5	607.5	11.4	
28-Feb	601.3	604.5	608.1	10.6	
16-Mar	602.4	605.0	608.3	7.0	
14-Apr	599.4	605.0	608.1	12.0	
15-Apr	599.2	604.8	608.2	10.0	
9-May	601.1	605.2	608.0	11.0	
11-May	601.0	605.1	607.9	11.0	
15-Jun	600.7	604.9	607.7	10.0	
15-Jul	608.2	608.1	608.1	10	(3)
29-Aug	601.4	604.9	608.0	7.0	
16-Sep	606.5	603.7	606.4	8.0	
11-Oct	601.7	604.9	607.9	10.0	(4)
1-Nov	608.4	607.0	607.5	5.0	
8-Nov	607.9	605.7	607.1	3.0	(5)
5-Dec					(6)

Notes:

1. Flow rates calculated based on total quantity of water pumped between the site visits.
2. Water levels measured using an electronic tape water level meter.
3. Extraction Well 1 (EW 1) damaged by electrical storm, parts ordered.
4. Total system shut down from October 4 to 11 due to NYSIG power supply problem.
5. EW 2 running erratically.
6. Groundwater system shut down due to electronic control difficulties with EW 1 and 2. EW 1 back on line Dec 6.

**Table 3**  
**Chem Trol**  
**Yearly Analytical Summary Report 2005**

	8/9/1990	8/19/1993	10/23/2002	10/23/2002	10/13/2003	10/26/2004	10/26/2004	11/11/2005	11/11/2005 DILUTED
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluororethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.3	J	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane DBCP	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (2)
Acetone	ND	ND	58	J	ND	ND	ND	2.5 (2)	J ND (2)
Benzene	ND	ND	ND	ND	ND	ND	ND	0.63	J ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	2.8	J ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	22	J	ND	ND	ND	0.8	ND	5.9	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	260	J	ND	ND	7.3	ND	3.2	J ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	50	ND	83	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	12	J	ND	ND	ND	7.8	ND	4.9	J ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl ketone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (3)
Methyl Isobutyl Ketone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (3)
Methyl tert butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	28000	130000	J	43000	E	95000	D	100000	E 2700 BD 12000 E 90000 D
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	3.4	J 2400 DJ 2.8	J ND	ND
Toluene	170	120	J	48	J	ND	52	ND	24
Total Xylenes	78	J	ND	15	J	ND	23	ND	17 (3) ND (3)
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	36	ND	78	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	660	470	J	180	ND	ND	380	E 690 DJ 400 E	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	9.1	ND	11	ND

Detection Limits (DL)  
 1-DL 5 UG/L    1-DL 5000 UG/L  
 UNLESS NOTED    UNLESS NOTED  
 2-DL 25 UG/L    2-DL 25000 UG/L  
 3-DL 15 UG/L    3-DL 15000 UG/L

NOTES: 1) All results reported in ug/L

**Table 3**  
**Chem Trol**  
**Yearly Analytical Summary Report 2005**

	MW-7R					
	8/12/1993	10/22/2002	10/13/2003	10/26/2004	3/31/2005	11/11/2005
1,1,1-Trichloroethane	ND	ND	ND	SEE	ND	ND (1)
1,1,2,2-Tetrachloroethane	ND	ND	ND	NOTE 2	ND	ND
1,1,2-Trichloro-1,2,2-trifluororethane	ND	ND	ND	Below	ND	ND
1,1,2-Trichloroethane	ND	ND	ND		ND	ND
1,1-Dichloroethane	ND	ND	ND		ND	ND
1,1-Dichloroethene	ND	ND	ND		ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND		ND	ND
1,2-Dibromo-3-Chloropropane DBCP	ND	ND	ND		ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND		ND	ND
1,2-Dichlorobenzene	ND	ND	ND		ND	ND
1,2-Dichloroethane	ND	ND	ND		ND	ND
1,2-Dichloroethene	ND	ND	ND		ND	ND
1,2-Dichloropropane	ND	ND	ND		ND	ND
1,3-Dichlorobenzene	ND	ND	ND		ND	ND
1,4-Dichlorobenzene	ND	ND	ND		ND	ND
1-Chloro-2-methyl benzene	ND	ND	ND		ND	ND
2-Hexanone	ND	ND	ND		ND	ND (2)
Acetone	ND	ND	ND		ND	ND (2)
Benzene	ND	ND	ND		ND	ND
Bromoform	ND	ND	ND		ND	ND
Bromomethane	ND	ND	ND		ND	ND
Carbon Disulfide	ND	ND	ND		ND	ND
Carbon Tetrachloride	ND	ND	ND		ND	ND
Chlorobenzene	ND	ND	ND		ND	ND
Chloroethane	ND	ND	ND		ND	ND
Chloroform	ND	ND	ND		ND	ND
Chloromethane	ND	ND	ND		ND	ND
cis-1,2-Dichloroethene	ND	ND	ND		ND	ND
cis-1,3-Dichloropropene	ND	ND	ND		ND	ND
Cyclohexane	ND	ND	ND		ND	ND
Dibromochloromethane	ND	ND	ND		ND	ND
Dichlorobromomethane	ND	ND	ND		ND	ND
Dichlorofluoromethane	ND	ND	ND		ND	ND
Ethylbenzene	ND	ND	ND		ND	ND
Isopropylbenzene	ND	ND	ND		ND	ND
Methyl Acetate	ND	ND	ND		ND	ND
Methyl Ethyl ketone	ND	ND	ND		ND	ND (2)
Methyl Isobutyl Ketone	ND	ND	ND		ND	ND (2)
Methyl tert butyl ether	ND	ND	ND		ND	ND
Methylcyclohexane	ND	ND	ND		ND	ND
Methylene chloride	ND	ND	ND		ND	ND
o-Chlorotoluene	ND	3.5	J	ND	ND	ND
Styrene	ND	ND	ND		ND	ND
Tetrachloroethene	ND	ND	ND		ND	ND
Toluene	ND	ND	ND		ND	ND
Total Xylenes	ND	ND	ND		ND	ND (3)
trans-1,2-Dichloroethene	ND	ND	ND		ND	ND
trans-1,3-Dichloropropene	ND	ND	ND		ND	ND
Trichloroethene	ND	ND	ND		ND	ND
Trichlorofluoromethane	ND	ND	ND		ND	ND
Vinyl Chloride	ND	ND	ND		ND	ND

Detection Limits (DL)

1-DL 5 UG/L

UNLESS NOTED

2-DL 25 UG/L

3-DL 15 UG/L

NOTES: 1) All results reported in ug/L

2) Inconsistent test result, re-sampled MW-7 on 3/31/2005.

**Table 3**  
**Chem Trol**  
**Yearly Analytical Summary Report 2005**

	8/16/1993	6/4/1994	3/10/1999	10/22/2002	10/22/2002	10/13/2003	10/26/2004	11/11/2005	11/11/2005 DILUTED
1,1,1-Trichloroethane	130	520	D	150	ND	ND	ND	ND (1)	ND (1)
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	160	370	D	200	32	28	O	22	16
1,1-Dichloroethene	30	67	25	1.2	J	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane DBCP	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (2)
Acetone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (2)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromform	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	26	52	76	13	11	DJ	10	5.6	4.2
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	J	14	10	3.6	J	3.4	DJ	2.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl ketone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (2)
Methyl Isobutyl Ketone	ND	ND	ND	ND	ND	ND	ND	ND (2)	ND (2)
Methyl tert butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene	4200	DJ	2600	DJ	600	280	E	240	D
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	4	J	ND	ND	ND	ND	ND	ND
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND (3)	ND (3)
trans-1,2-Dichloroethene	ND	ND	ND	J	ND	ND	ND	0.92	J
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	39	100	51	1.2	J	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	2.6	1.9	2.8

NOTES: 1) All results reported in ug/L

Detection Limits (DL)  
 1-DL 5 ug/L      1-DL 25 ug/L  
 UNLESS NOTED      UNLESS NOTED  
 2-DL 25 ug/L      2-SDL 120 ug/L  
 3-DL 15 ug/L      3-DL 75 ug/L



**Table 3**  
**Chem Trol**  
**Yearly Analytical Summary Report 2005**

MW-13R

	5/31/1994	3/11/1999	10/22/2002	10/22/2002	10/13/2003	10/26/2004	10/26/2004	11/11/2005	11/11/2005 DILUTED
1,1,1-Trichloroethane	260	D	220	J	79	ND	ND	8.2	76(1)
1,1,2,2-Tetrachloroethane	ND		ND						
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.8	J	ND	ND	ND	1	J 1
1,1,2-Trichloroethane	ND		ND						
1,1-Dichloroethane	6	J	240	J	190	ND	110	J	39
1,1-Dichloroethene	270	D	22	J	3.7	J	ND	ND	1.5 J ND
1,2,4-Trichlorobenzene	ND		ND						
1,2-Dibromo-3-Chloropropane DBCP	ND		ND						
1,2-Dibromoethane (EDB)	ND		ND						
1,2-Dichlorobenzene	ND		ND						
1,2-Dichloroethane	ND		ND						
1,2-Dichloropropane	ND		ND						
1,3-Dichlorobenzene	ND		ND						
1,4-Dichlorobenzene	ND		ND						
2-Hexanone	ND		ND	ND	ND	ND	ND	ND (2)	ND (2)
Acetone	ND		ND	ND	ND	ND	ND	ND (2)	ND (2)
Benzene	2	J	ND	7	ND	ND	ND	2.6	J 4.6 J ND
Bromform	ND		ND						
Bromomethane	ND		ND						
Carbon Disulfide	26		ND						
Carbon Tetrachloride	ND		ND						
Chlorobenzene	ND		ND						
Chloroethane	22		73	11	ND	ND	28	DJ	32
Chloroform	ND		ND						
Chloromethane	ND		ND						
cis-1,2-Dichloroethene	ND		10	9.3	ND	ND	1.6	J	3.2 J ND
cis-1,3-Dichloropropene	ND		ND						
Cyclohexane	ND		ND	17	ND	ND	ND	2.5	J 3.0 J ND
Dibromochloromethane	ND		ND						
Dichlorobromomethane	ND		ND						
Dichlorofluoromethane	ND		ND						
Ethylbenzene	ND		ND	2.2	J	ND	ND	ND	ND
Isopropylbenzene	ND		ND						
Methyl Acetate	ND		ND						
Methyl Ethyl ketone	ND		ND	ND	ND	ND	ND	ND (25)	ND (2)
Methyl Isobutyl Ketone	ND		ND	ND	ND	ND	ND	ND (25)	ND (2)
Methyl tert butyl ether	ND		ND						
Methylene cyclohexane	ND		ND	13	ND	ND	ND	1.2	J ND
Methylene chloride	1	J	ND	ND	ND	ND	ND	0.44	J ND
o-Chlorotoluene	1700	DJ	ND	3300	E	4200	D	4500	1900 BD 820 E 1700 E 4900 D
Styrene	ND		ND						
Tetrachloroethene	0.5	J	ND						
Toluene	7	J	ND	6.5	ND	ND	ND	2.3	J 3.2 J ND
Total Xylenes	8	J	ND	9.6	J	ND	ND	ND	4.4(3) J ND (3)
trans-1,2-Dichloroethene	ND		ND	2.4	J	ND	ND	1.3	J 1.2 J ND
trans-1,3-Dichloropropene	ND		ND						
Trichloroethene	49		40	8	ND	ND	ND	11	J 2.7 J ND
Trichlorofluoromethane	ND		ND						
Vinyl Chloride	2	J	ND						

Detection Limits  
 1-DL 5 ug/L 1-DL 400 ug/L  
 2-DL 25 ug/L 2-DL 2000 ug/L  
 3-DL 15 ug/L 3-DL 1200 ug/L

NOTES: 1) All results reported in ug/L

**Table 3**  
**Chem Trol**  
**Yearly Analytical Summary Report 2005**

	MW-15R				
	3/11/1999	10/22/2002	10/13/2003	10/26/2004	11/11/2005
1,1,1-Trichloroethane	ND	ND	ND	ND	ND (1)
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluororethane	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane DBCP	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND (2)
Acetone	20	U	ND	ND	ND (2)
Benzene	ND	24	15	14	13 J
Bromoform	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND
Carbon Disulfide	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	7.6 J
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND
Cyclohexane	ND	180	170	190	190
Dibromochloromethane	ND	ND	ND	ND	ND
Dichlorobromomethane	ND	ND	ND	ND	ND
Dichlorofluoromethane	ND	ND	ND	ND	ND
Ethylbenzene	ND	17	20	17	14 J
Isopropylbenzene	ND	3.1	J	3.3	J
Methyl Acetate	ND	ND	ND	ND	ND
Methyl Ethyl ketone	ND	ND	ND	ND	50 (2) J
Methyl Isobutyl Ketone	ND	ND	ND	ND	ND (2)
Methyl tert butyl ether	ND	ND	ND	ND	ND
Methylcyclohexane	ND	110	86	99	80
Methylene chloride	ND	ND	ND	ND	ND
o-Chlorotoluene	ND	ND	ND	2.9	BJ ND BJ
Styrene	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND
Toluene	ND	26	24	J	ND ND
Total Xylenes	ND	170	160	48	32 (3) J
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND

Detection Limits (DL:

NOTES: 1) All results reported in ug/L

1-ALL DL 25 UG/L  
UNLESS NOTED

2-DL 120 UG/L

3-DL 75 UG/L

**Attachment A**

**MMCE Site Visit Data Sheets**

**2005**

**McMahon & Mann**  
Consulting Engineers, P.C.

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Jan 31/05

### SVE System

Blower 1 ON  
 Blower 2 OFF  
 Alarms None  
 Water Knockout Tank Empty

PI-1	<u>-Pey</u>	in H <sub>2</sub> O	Hnu (ppm)
PI-2	<u>12.2</u>	in H <sub>2</sub> O	
T-1	<u>42</u>	°F	
FI-1	<u>.029</u>		Make up Valve
PI-4			<u>12/13</u>

### Water Extraction System

**EW-1**  
 top pvc 624.07  
 status R  
 % speed 63  
 rate-gpm 0  
 flow meter N/A gallons  
 depth — ft  
 Water Elev. 600

**EW-2**  
 top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm 7  
 flow meter N/A gallons  
 depth — ft  
 Water Elev. 604.5

**EW-3**  
 top pvc 621.1  
 status S/B  
 % speed 65  
 rate-gpm 0  
 flow meter N/A gallons  
 depth — ft  
 Water Elev. 607.5

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter  
 appearance WATER CLEAR

Alarm History  
12/31/04 Ew3 Hi

Totalizer \_\_\_\_\_ gallons

322999 OVER 15 minutes  
322983 METER STUCK?

### Leaks

None

### General Comments

\_\_\_\_\_

### Remote Panels

**EW-1**  
 Pump R  
 Head 139 in

**EW-2**  
 Pump R  
 Head 165 in

**EW-3**  
 Pump —  
 Head 194 in

RJB

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date : FEB 28, 2005

## SVE System

Blower 1 on  
 Blower 2 off  
 Alarms None  
 Water Knockout Tank Empty

PI-1	<u>-Peg</u>	in H <sub>2</sub> O	Hnu (ppm)
PI-2	<u>-12.4</u>	in H <sub>2</sub> O	<u>          </u>
T-1	<u>36</u>	°F	<u>          </u>
FI-1	<u>.026</u>		Make up Valve
PI-4	<u>          </u>		<u>12/13</u>

*Set To 13/13*

## Water Extraction System

**EW-1**  
 top pvc 624.07  
 status R  
 % speed 63  
 rate-gpm             
 flow meter            gallons  
 depth            ft  
 Water Elev. 601.3

**EW-2**  
 top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm             
 flow meter            gallons  
 depth            ft  
 Water Elev. 604.5

**EW-3**  
 top pvc 621.1  
 status SB  
 % speed 65  
 rate-gpm             
 flow meter            gallons  
 depth            ft  
 Water Elev. 608.1

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in  
 \_\_\_\_\_

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter  
 appearance Scum on SURFACE but CLEAR  
 Totalizer            gallons 3681800 10:00  
           3681160 9:00  
           10.6 gpm

Alarm History

None

Leaks None

### General Comments

Found Fermco on Header off. REINSTALLED

## Remote Panels

**EW-1**  
 Pump R  
 Head 139 in

**EW-2**  
 Pump R  
 Head 185 in

**EW-3**  
 Pump SB  
 Head 202 in

*RJB  
JG*

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date : MAR 16, 2005

Blower 1 ON

Blower 2 OFF

Alarms None

Water Knockout Tank Empty

## SVE System

PI-1 -Peg in H<sub>2</sub>O  
PI-2 -15.0 in H<sub>2</sub>O  
T-1 40 °F  
FI-1 .018  
PI-4 0

1st Quarter

Hnu (ppm)

MEASURED 0

Make up Valve

CLOSED

## Water Extraction System

### EW-1

top pvc 624.07  
status R  
% speed 63  
rate-gpm 0  
flow meter  gallons  
depth  ft  
Water Elev. 602.4

### EW-2

top pvc 622.16  
status R  
% speed 58  
rate-gpm 6  
flow meter  gallons  
depth  ft  
Water Elev. 604.97

### EW-3

top pvc 621.1  
status SB  
% speed 105  
rate-gpm 0  
flow meter  gallons  
depth  ft  
Water Elev. 608.3

Level SP 199 in  
High SP 250 in  
Low SP 25 in

Level SP 160 in  
High SP 250 in  
Low SP 25 in

Level SP 170 in  
High SP 250 in  
Low SP 25 in

Blower Motor 19.5 in H<sub>2</sub>O

Iron Filter  
appearance

Alarm History

None

Totalizer 3841440 10:35  
3843060 13:04 gallons 10.9 gpm

Leaks

## General Comments

COMPLETED 1ST QUARTER GROUND WATER ELEVATIONS

## Remote Panels

EW-1  
Pump R  
Head 117 in

EW-2  
Pump R  
Head 182 in

EW-3  
Pump R  
Head 200 in  
RJB  
TC

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Mar 31/05

## SVE System

Blower 1 \_\_\_\_\_  
Blower 2 \_\_\_\_\_  
Water Knockout Tank \_\_\_\_\_  
Alarms \_\_\_\_\_

PI-1 \_\_\_\_\_ in H<sub>2</sub>O  
PI-2 \_\_\_\_\_  
T-1 \_\_\_\_\_ °F  
FI-1 \_\_\_\_\_  
PI-4 \_\_\_\_\_

Hnu Valve \_\_\_\_\_

## Water Extraction System

### EW-1

625.47 624.07

status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_ 0  
Flow Meter \_\_\_\_\_ g/gpm  
head \_\_\_\_\_ in  
Water Elev by Hand 589.7 ft  
Level SP 199 in  
High SP 250 in  
Low SP 25 in

### EW-2

624.03 622.16

status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
Flow Meter \_\_\_\_\_ g/gpm  
head \_\_\_\_\_ in  
Water Elev 589.1 ft  
Level SP 160 in  
High SP 250 in  
Low SP 25 in

### EW-3

623.13 621.1

status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
Flow Meter \_\_\_\_\_ g/gpm  
head \_\_\_\_\_ in  
Water Elev 591.3 ft  
Level SP 170 in  
High SP 250 in  
Low SP 25 in

Bag Filter \_\_\_\_\_ in H<sub>2</sub>O

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

### Iron Filter

appearance scummy  
outlet \_\_\_\_\_

### Alarm History

Totalizer \_\_\_\_\_ gallons

### Leaks

MET BRIAN SEDOWSKI (REC) & Paul Little (STL) - STL  
General Comments Removed about 969 from MWTR (Pumped to STRIPPER).  
STL RE-SAMPLED MWTR Jerry Carmen

## Remote Panels

EW-1  
Pump \_\_\_\_\_  
Head \_\_\_\_\_ in

EW-2  
Pump \_\_\_\_\_  
Head \_\_\_\_\_ in

EW-3  
Pump \_\_\_\_\_  
Head \_\_\_\_\_ in

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Apr 14, 2005

## SVE System

Blower 1	<u>ON</u>	PI-1	<u>-Peg</u>	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	<u>OFF</u>	PI-2	<u>-Peg</u>	in H <sub>2</sub> O	
Alarms	<u>None</u>	T-1	<u>74</u>	°F	
Water Knockout Tank	<u>3/4 full</u>	FI-1	<u>0%</u>		Make up Valve
		PI-4	<u>0</u>		<u>CLOSED</u>

## Water Extraction System

EW-1	EW-2	EW-3	
top pvc 624.07	top pvc 622.16	top pvc 621.1	
status <u>R</u>	status <u>R</u>	status <u>SB</u>	
% speed <u>63</u>	% speed <u>58</u>	% speed <u>65</u>	
rate-gpm	rate-gpm	rate-gpm	
flow meter	gallons	flow meter	gallons
depth	ft	depth	ft
Water Elev. <u>599.4</u>	Water Elev. <u>605.0</u>	Water Elev. <u>608.1</u>	
Level SP      199 in	Level SP      160 in	Level SP      170 in	
High SP      250 in	High SP      250 in	High SP      250 in	
Low SP      25 in	Low SP      25 in	Low SP      25 in	

Blower Motor 20 in H<sub>2</sub>O

Iron Filter	Alarm History
appearance <u>Scum</u>	<u>April 4, 2005 Cw3 Hi</u>
Totalizer <u>434 2770 1500</u>	
<u>434 2470 14:30</u>	
gallons	
Leaks <u>None</u>	

### General Comments

Transferred Knock Out Tank Water To Pay Tank.

## Remote Panels

EW-1	EW-2	EW-3
Pump <u>P</u>	Pump <u>P</u>	Pump <u>P</u>
Head <u>116</u> in	Head <u>191</u> in	Head <u>202</u> in

RIB

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date : April 15, 2005

### SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	
Alarms	T-1	°F	
Water Knockout Tank	FI-1		Make up Valve
	PI-4		

### Water Extraction System

EW-1	EW-2	EW-3
top pvc 624.07	top pvc 622.16	top pvc 621.1
status _____	status _____	status _____
% speed _____	% speed _____	% speed _____
rate-gpm _____	rate-gpm _____	rate-gpm _____
flow meter _____ gallons	flow meter _____ gallons	flow meter _____ gallons
depth _____ ft	depth _____ ft	depth _____ ft
Water Elev. 599.2	Water Elev. 604.8	Water Elev. 608.2
Level SP 199 in	Level SP 160 in	Level SP 170 in
High SP 250 in	High SP 250 in	High SP 250 in
Low SP 25 in	Low SP 25 in	Low SP 25 in
_____	_____	_____

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_  
Totalizer 4356530 1305  
gallons 4356110 1225  
Leaks None

Alarm History

### General Comments

TRANSFERRED ~ 400 gallons GROUND WATER FROM POOL TANK TO  
AIR STRIPPER.  
EARTH TECH ON SITE & REMOVED PUMP FROM EW3 FOR INSPECTION & OEM.

### Remote Panels

EW-1	EW-2	EW-3
Pump P	P	P
Head 114 in	188 in	203 in

RJB

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date: April 19, 2005

### SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	
Alarms	T-1	°F	
Water Knockout Tank	FI-1		Make up Valve
	PI-4		

### Water Extraction System

<b>EW-1</b>	<b>EW-2</b>	<b>EW-3</b>
top pvc 624.07	top pvc 622.16	top pvc 621.1
status _____	status _____	status _____
% speed _____	% speed _____	% speed _____
rate-gpm _____	rate-gpm _____	rate-gpm _____
flow meter _____ gallons	flow meter _____ gallons	flow meter _____ gallons
depth _____ ft	depth _____ ft	depth _____ ft
Water Elev.	Water Elev.	Water Elev.
Level SP 199 in	Level SP 160 in	Level SP 170 in
High SP 250 in	High SP 250 in	High SP 250 in
Low SP 25 in	Low SP 25 in	Low SP 25 in

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_

Alarm History \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Totalizer \_\_\_\_\_ gallons

Leaks \_\_\_\_\_

### General Comments

STOPPED ON SITE W/TOM & EMPTIED KNOCK OUT TANK TO POLY TANK.

### Remote Panels

<b>EW-1</b>	<b>EW-2</b>	<b>EW-3</b>
Pump _____ in	Pump _____ in	Pump _____ in
Head _____ in	Head _____ in	Head _____ in

RTP  
TRH

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: April 21, 2005

## SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	_____
Alarms	T-1	°F	_____
Water Knockout Tank	FI-1	_____	Make up Valve
	PI-4	_____	_____

## Water Extraction System

### EW-1

top pvc 624.07  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth 23.3 ft  
Water Elev. 600.8

### EW-2

top pvc 622.16  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth 17.4 ft  
Water Elev. 604.8

### EW-3

top pvc 621.1  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth 12.7 ft  
Water Elev. 608.4

Level SP 199 in  
High SP 250 in  
Low SP 25 in

Level SP 160 in  
High SP 250 in  
Low SP 25 in

Level SP 170 in  
High SP 250 in  
Low SP 25 in

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_

Alarm History

Totalizer \_\_\_\_\_ gallons

Leaks \_\_\_\_\_

### General Comments

Moved KnockOut TANK WATER TO PAY TANK  
EARTH TECH PULLED EW3 Pump & REAUMT IT.

## Remote Panels

### EW-1

Pump P  
Head 172 in  
Elev. 599.7

### EW-2

Pump P  
Head 184 in  
Elev. 604.4

### EW-3

Pump P  
Head 195 in  
Elev. 607.6

RTB

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date : May 09, 2005

## SVE System

Blower 1	<u>ON</u>	PI-1	<u>-Peg</u>	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	<u>OFF</u>	PI-2	<u>-Peg</u>	in H <sub>2</sub> O	<u>N/A</u>
Alarms	<u>None</u>	T-1	<u>66</u>	°F	
Water Knockout Tank	<u>Empty</u>	FI-1	<u>025</u>		Make up Valve
		PI-4	<u>P</u>		<u>Closed</u>

## Water Extraction System

EW-1		EW-2		EW-3	
top pvc	624.07	top pvc	622.16	top pvc	621.1
status		status		status	
% speed		% speed		% speed	
rate-gpm		rate-gpm		rate-gpm	
flow meter	gallons	flow meter	gallons	flow meter	gallons
depth	23.0 ft	depth	16.95 ft	depth	13.10 ft
Water Elev.	601.1	Water Elev.	605.2	Water Elev.	608.0
Level SP	199 in	Level SP	160 in	Level SP	170 in
High SP	250 in	High SP	250 in	High SP	250 in
Low SP	25 in	Low SP	25 in	Low SP	25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter	Appearance	Alarm History
	<u>Scum</u>	<u>None</u>
	<u>4725 070 1117</u>	
Totalizer	gallons	<u>4724 410 1017</u>
		<u>11gpm</u>
Leaks	<u>None</u>	

### General Comments

Knock Out Empty Poly Tank Accts 1/2 full

## Remote Panels

EW-1		EW-2		EW-3	
Pump	<u>P</u>	Pump	<u>P</u>	Pump	<u>P</u>
Head	<u>133</u> in	Head	<u>173</u> in	Head	<u>190</u> in
Elev.	<u>600.8</u>	Elev.	<u>603.5</u>	Elev.	<u>607.1</u>

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date : May 11, 2005

Blower 1 off  
 Blower 2 on  
 Alarms 0  
 Water Knockout Tank 3/4 full

## SVE System

PI-1	<u>- Pg</u>	in H <sub>2</sub> O	Hnu (ppm)
PI-2	<u>- Pg</u>	in H <sub>2</sub> O	<u>N/A</u>
T-1	<u>64</u>	°F	
FI-1	<u>.030</u>		
PI-4	<u>0</u>		

Make up Valve  
OPENED 2 NOTCHES  
11/13

## Water Extraction System

### EW-1

top pvc 624.07  
 status R  
 % speed 43  
 rate-gpm -  
 flow meter - gallons  
 depth 23.1 ft  
 Water Elev. 601.0

### EW-2

top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm -  
 flow meter - gallons  
 depth 17.1 ft  
 Water Elev. 605.1

### EW-3

top pvc 621.1  
 status SB  
 % speed 65  
 rate-gpm -  
 flow meter - gallons  
 depth 13.2 ft  
 Water Elev. 607.9

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter  
 appearance Scum

Alarm History

None

Totalizer gallons 10.8 gpm

Leaks None

### General Comments

About 400 gallons Ground Water Moved from Poly Tank To Air STRIPPER.

## Remote Panels

### EW-1

Pump P  
 Head 134 in  
 ELEV. 600.9

### EW-2

Pump P  
 Head 171 in  
 ELEV. 603.4

### EW-3

Pump P  
 Head 189 in  
 ELEV. 607.1  
 RB

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date: June 15, 2005

### SVE System

Blower 1 off  
 Blower 2 on  
 Alarms None  
 Water Knockout Tank Empty

PI-1	<u>-Peg</u>	in H <sub>2</sub> O	<u>Two Quarter</u>
PI-2	<u>-Peg</u>	in H <sub>2</sub> O	Hnu (ppm) <u>MEASURED P</u>
T-1	<u>72</u>	°F	
FI-1	<u>.025</u>		Make up Valve <u>CLOSED</u> → <u>P ppm</u>
PI-4	<u>0</u>		<u>opened to 11/3</u>

### Water Extraction System

**EW-1**  
 top pvc 624.07  
 status R  
 % speed 63  
 rate-gpm \_\_\_\_\_  
 flow meter \_\_\_\_\_ gallons  
 depth 23.4 ft  
 Water Elev. 600.7

**EW-2**  
 top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm \_\_\_\_\_  
 flow meter \_\_\_\_\_ gallons  
 depth 17.2 ft  
 Water Elev. 604.9

**EW-3**  
 top pvc 621.1  
 status R  
 % speed 65  
 rate-gpm \_\_\_\_\_  
 flow meter \_\_\_\_\_ gallons  
 depth 13.4 ft  
 Water Elev. 607.7

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter  
 appearance Scum

Alarm History

None

5274030 1124

Totalizer \_\_\_\_\_ gallons 5272530 4:02

10.6 gpm

Leaks None

### General Comments

Two Quarter Water Levels Completed  
MW 11R Found Vandalized

### Remote Panels

**EW-1**  
 Pump P  
 Head 147 in  
 Elev 608

**EW-2**  
 Pump P  
 Head 170 in  
 Elev 603.3

**EW-3**  
 Pump P  
 Head 186 in  
 Elev 606.6

RJTS

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date: July 15, 2005

### SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	
Alarms	T-1	°F	
Water Knockout Tank	FI-1		Make up Valve
	PI-4		

### Water Extraction System

EW-1	EW-2	EW-3
top pvc 624.07	top pvc 622.16	top pvc 621.1
status	status	status
% speed	% speed	% speed
rate-gpm	rate-gpm	rate-gpm
flow meter	flow meter	flow meter
depth	depth	depth
gallons	gallons	gallons
ft	ft	ft
Water Elev.	Water Elev.	Water Elev.
Level SP 199 in	Level SP 160 in	Level SP 170 in
High SP 250 in	High SP 250 in	High SP 250 in
Low SP 25 in	Low SP 25 in	Low SP 25 in

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_

Alarm History

Totalizer \_\_\_\_\_ gallons

Leaks \_\_\_\_\_

### General Comments

ON SITE WITH JEFF HALL, EARTH TECH - ALL SYSTEMS DOWN, SEVERE T-STORMS

YESTERDAY: SOME TREES DOWN.

Turned all on. EW-1 damaged circuit, must call ELECTRICIAN

### Remote Panels

EW-1	EW-2	EW-3
Pump _____	Pump _____	Pump _____
Head _____ in	Head _____ in	Head _____ in

2JB

## Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Aug 29, 2005

### SVE System

Blower 1	<u>off</u>	PI-1	<u>P</u>	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	<u>on</u>	PI-2	<u>P</u>	in H <sub>2</sub> O	<u>N/A</u>
Alarms	<u>None</u>	T-1	<u>74</u>	°F	
Water Knockout Tank	<u>Empty</u>	FI-1	<u>.029</u>		Make up Valve
		PI-4	<u>0</u>		<u>11/13</u>

### Water Extraction System

EW-1	EW-2	EW-3	
top pvc 624.07	top pvc 622.16	top pvc 621.1	
status <u>OFF</u>	status <u>R</u>	status <u>R</u>	
% speed <u>0</u>	% speed <u>58</u>	% speed <u>65</u>	
rate-gpm	rate-gpm	rate-gpm	
flow meter	gallons	flow meter	gallons
depth	ft	depth	ft
Water Elev.	Water Elev.	Water Elev.	
Level SP 199 in	Level SP 160 in	Level SP 170 in	
High SP 250 in	High SP 250 in	High SP 250 in	
Low SP 25 in	Low SP 25 in	Low SP 25 in	

Blower Motor 19 in H<sub>2</sub>O

Iron Filter	Alarm History
appearance <u>Scum.</u>	<u>None</u>
	<u> </u>
Totalizer <u>6126360 12:32</u> gallons	<u> </u>
	<u> </u>
Leaks <u>None</u>	<u> </u>

### General Comments

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---



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### Remote Panels

EW-1	EW-2	EW-3
Pump <u>off</u>	Pump <u>P</u>	Pump <u>P</u>
Head <u>—</u> in	Head <u>154</u> in	Head <u>170</u> in

Elev. 601.9

Elev. 605.5

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Sept 16, 2005

Blower 1 off  
 Blower 2 on  
 Alarms none  
 Water Knockout Tank Empty

## SVE System

PI-1 - Reg in H<sub>2</sub>O  
 PI-2 - Reg in H<sub>2</sub>O  
 T-1 79 °F  
 FI-1 028  
 PI-4  

3rd Quarter

Hnu (ppm)

measured 0

Make up Valve

No change

## Water Extraction System

**EW-1**  
 top pvc 624.07  
 status S/B  
 % speed 0  
 rate-gpm —  
 flow meter — gallons  
 depth 17.4 ft  
 Water Elev. 606.5

**EW-2**  
 top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm —  
 flow meter — gallons  
 depth 18.5 ft  
 Water Elev. 603.7

**EW-3**  
 top pvc 621.1  
 status R  
 % speed 65  
 rate-gpm —  
 flow meter — gallons  
 depth 14.7 ft  
 Water Elev. 606.7

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 20 in H<sub>2</sub>O

Iron Filter  
 appearance Scum

Alarm History

6 325 330 10:42  
6 325 060 10:07

None

Totalizer   gallons 7gpm

Leaks  

## General Comments

EW-1 Shut down  
Heavy Rains Rescheduled 3rd Quarter water levels  
For Sept 19, 05.

## Remote Panels

**EW-1**  
 Pump off  
 Head -138 in

**EW-2**  
 Pump R  
 Head 155 in  
 Elev 602.0

**EW-3**  
 Pump R  
 Head 171 in  
 Elev 605.6

RJF

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Sept 19, 2005

## SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	MEASURED Sept 16, 05
Alarms	T-1	°F	
Water Knockout Tank	FI-1		Make up Valve
	PI-4		

## Water Extraction System

EW-1	EW-2	EW-3
top pvc 624.07	top pvc 622.16	top pvc 621.1
status _____	status _____	status _____
% speed _____	% speed _____	% speed _____
rate-gpm _____	rate-gpm _____	rate-gpm _____
flow meter _____ gallons	flow meter _____ gallons	flow meter _____ gallons
depth 15.85 ft	depth 17.1 ft	depth 13.1 ft
Water Elev. 608.2	Water Elev. 605.1	Water Elev. 608.2
Level SP 199 in	Level SP 160 in	Level SP 170 in
High SP 250 in	High SP 250 in	High SP 250 in
Low SP 25 in	Low SP 25 in	Low SP 25 in
_____	_____	_____

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_

Alarm History

Totalizer \_\_\_\_\_ gallons

Leaks \_\_\_\_\_

## General Comments

COMPLETED 3rd Quarter Work Levels

## Remote Panels

EW-1	EW-2	EW-3
Pump _____	Pump _____	Pump _____
Head _____ in	Head _____ in	Head _____ in

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Oct 11, 2005

## SVE System

Blower 1	PI-1	in H <sub>2</sub> O	Hnu (ppm)
Blower 2	PI-2	in H <sub>2</sub> O	_____
Alarms	T-1	°F	_____
Water Knockout Tank	FI-1	_____	Make up Valve
	PI-4	_____	_____

## Water Extraction System

EW-1	EW-2	EW-3
top pvc 624.07	top pvc 622.16	top pvc 621.1
status _____	status _____	status _____
% speed _____	% speed _____	% speed _____
rate-gpm _____	rate-gpm _____	rate-gpm _____
flow meter _____ gallons	flow meter _____ gallons	flow meter _____ gallons
depth _____ ft	depth _____ ft	depth _____ ft
Water Elev.	Water Elev. 6	Water Elev.
Level SP 199 in	Level SP 160 in	Level SP 170 in
High SP 250 in	High SP 250 in	High SP 250 in
Low SP 25 in	Low SP 25 in	Low SP 25 in
_____	_____	_____

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter	Alarm History
appearance Scum	10/11/05 #1 Hi Level
6554 596 10:00	_____
6554 502 9:50	_____
Totalizer _____ gallons	9.4 gpm
Leaks None.	_____

## General Comments

Well 1 NOT OPERATING. Transducer Failing.

\_\_\_\_\_

\_\_\_\_\_

## Remote Panels

EW-1	EW-2	EW-3
Pump _____ in	Pump R	Pump _____ in
Head _____ in	Head 169 in	Head 185 in
	603.3	601.7

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Nov. 1, 2005

## SVE System

Blower 1 off  
 Blower 2 on  
 Alarms None

Water Knockout Tank Empty

PI-1 - Peg in H<sub>2</sub>O  
 PI-2 -13 in H<sub>2</sub>O  
 T-1 62 °F  
 FI-1 .025  
 PI-4 0

Hnu (ppm)

N/A

Make up Valve

11/13

## Water Extraction System

### EW-1

top pvc 624.07  
 status SB  
 % speed 0  
 rate-gpm 0  
 flow meter 964 394 gallons  
 depth 15.71 ft  
 Water Elev. 608.4

### EW-2

top pvc 622.16  
 status R  
 % speed 58  
 rate-gpm 60  
 flow meter 6870786 gallons  
 depth 15.19 ft  
 Water Elev. 607.0

### EW-3

top pvc 621.1  
 status SB  
 % speed 65  
 rate-gpm 4  
 flow meter 77 528 gallons  
 depth 13.62 ft  
 Water Elev. 607.5

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor 19 in H<sub>2</sub>O

Iron Filter  
 appearance Scum

6 812 128 9:16  
6 811 867 8:36

### Alarm History

10/20/05 Well 2 Low  
Well 1 Low  
Well 1 Hi

Totalizer gallons 6.5 gpm

Leaks None

### General Comments

Fluctuating Readouts on EW2

### Remote Panels

#### EW-2

Pump P  
 Head 182 in

#### EW-3

Pump P  
 Head 180 in

JJC

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Nov 8, 2005

## SVE System

Blower 1 Off  
 Blower 2 on  
 Alarms None  
 Water Knockout Tank empty

PI-1	<u>-Pey</u>	in H <sub>2</sub> O	Hnu (ppm)
PI-2	<u>-13.4</u>	in H <sub>2</sub> O	<u>N/A</u>
T-1	<u>60</u>	°F	
FI-1	<u>.027</u>		Make up Valve
PI-4	<u>0</u>		<u>11/13</u>

## Water Extraction System

**EW-1**  
 top pvc 624.07  
 status SB  
 % speed —  
 rate-gpm —  
 flow meter    gallons  
 depth 16.2 ft  
 Water Elev. 607.9

**EW-2**  
 top pvc 622.16  
 status SB  
 % speed 5B  
 rate-gpm 0  
 flow meter    gallons  
 depth 16.5 ft  
 Water Elev. 605.7

**EW-3**  
 top pvc 621.1  
 status SB  
 % speed 65  
 rate-gpm 4  
 flow meter    gallons  
 depth 14.0 ft  
 Water Elev. 607.1

Level SP 199 in  
 High SP 250 in  
 Low SP 25 in

Level SP 160 in  
 High SP 250 in  
 Low SP 25 in

Level SP 170 in  
 High SP 250 in  
 Low SP 25 in

Blower Motor >0 in H<sub>2</sub>O

Iron Filter  
 appearance Some

Alarm History

6 876 006 12:23

6 875 027 9:24

Totalizer    gallons 5.6 gpm

Leaks None

### General Comments

Fuctuating Readings EW-2 Pump EW1 on Standby

Completed 4th Quarter Water Elevation

**EW-1**  
 Pump     
 Head    in

**Remote Panels**  
**EW-2**  
 Pump P  
 Head 608/185 in

**EW-3**  
 Pump P  
 Head 177 in  
 Elev 606.1 ft  
c-g

# Chem-Trol Site

Hamburg, New York

File: 94-002

Date: Dec 05, 2005

4th Quarter

Blower 1 off  
Blower 2 on  
Alarms 0

Water Knockout Tank Empty

## SVE System

PI-1 -Pegy in H<sub>2</sub>O  
PI-2 -12.8 in H<sub>2</sub>O  
T-1 36 °F  
FI-1 0.29  
PI-4 0

Hnu (ppm)  
Measured 0

Make up Valve  
Closed 13/13

## Water Extraction System

### EW-1

top pvc 624.07  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth \_\_\_\_\_ ft  
Water Elev.

### EW-2

top pvc 622.16  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth \_\_\_\_\_ ft  
Water Elev.

### EW-3

top pvc 621.1  
status \_\_\_\_\_  
% speed \_\_\_\_\_  
rate-gpm \_\_\_\_\_  
flow meter \_\_\_\_\_ gallons  
depth \_\_\_\_\_ ft  
Water Elev.

Level SP 199 in  
High SP 250 in  
Low SP 25 in

Level SP 160 in  
High SP 250 in  
Low SP 25 in

Level SP 170 in  
High SP 250 in  
Low SP 25 in

Blower Motor \_\_\_\_\_ in H<sub>2</sub>O

Iron Filter  
appearance \_\_\_\_\_

Alarm History  
\_\_\_\_\_

Totalizer \_\_\_\_\_ gallons

Leaks \_\_\_\_\_

## General Comments

Did not have key to Weller Bldg.  
WELLS 1 E' 2 REQUIRE REPAIR, EARTH TECH HAS PARTS ORDERED

## Remote Panels

### EW-1

Pump \_\_\_\_\_ in  
Head \_\_\_\_\_ in

### EW-2

Pump \_\_\_\_\_ in  
Head \_\_\_\_\_ in

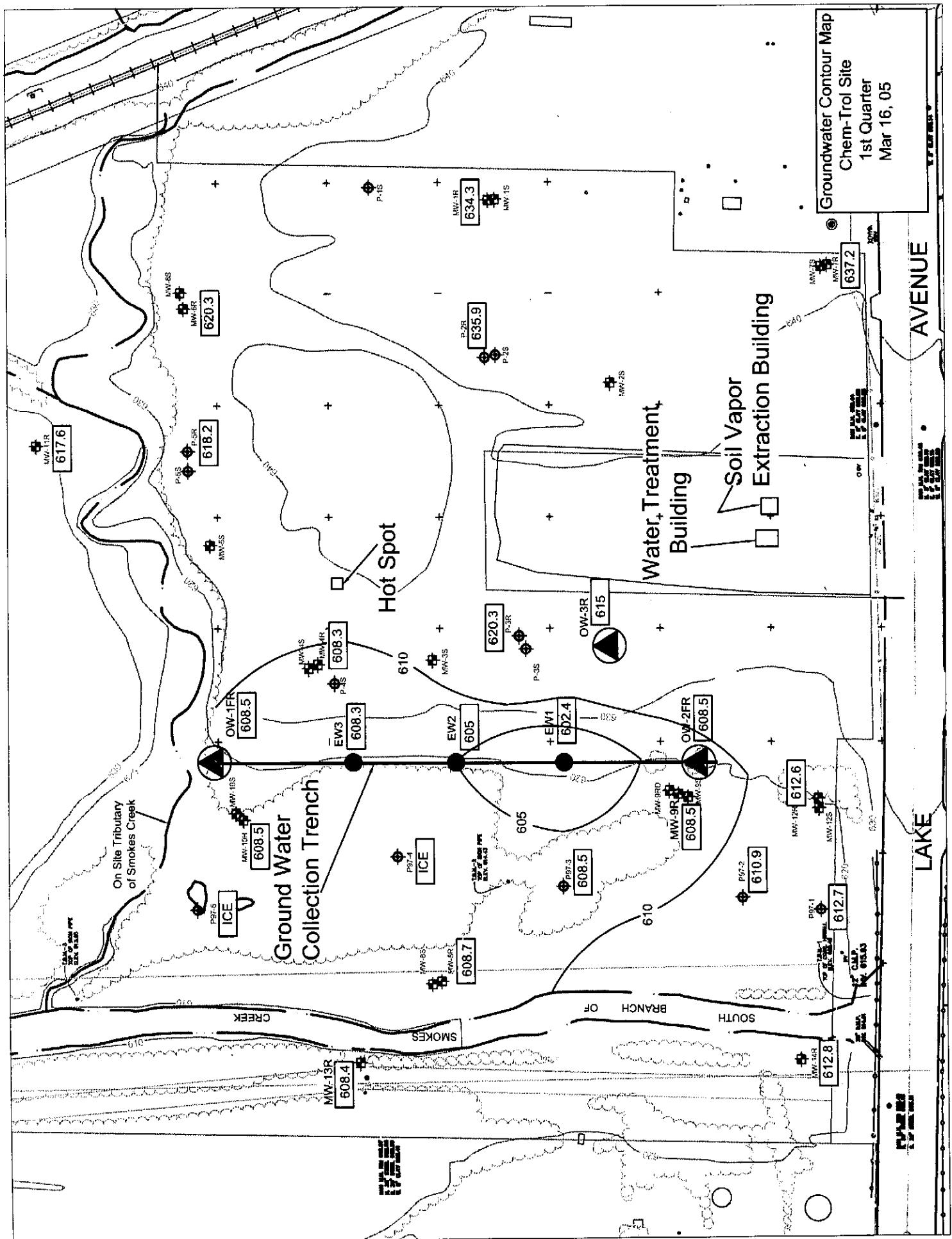
### EW-3

Pump \_\_\_\_\_ in  
Head \_\_\_\_\_ in

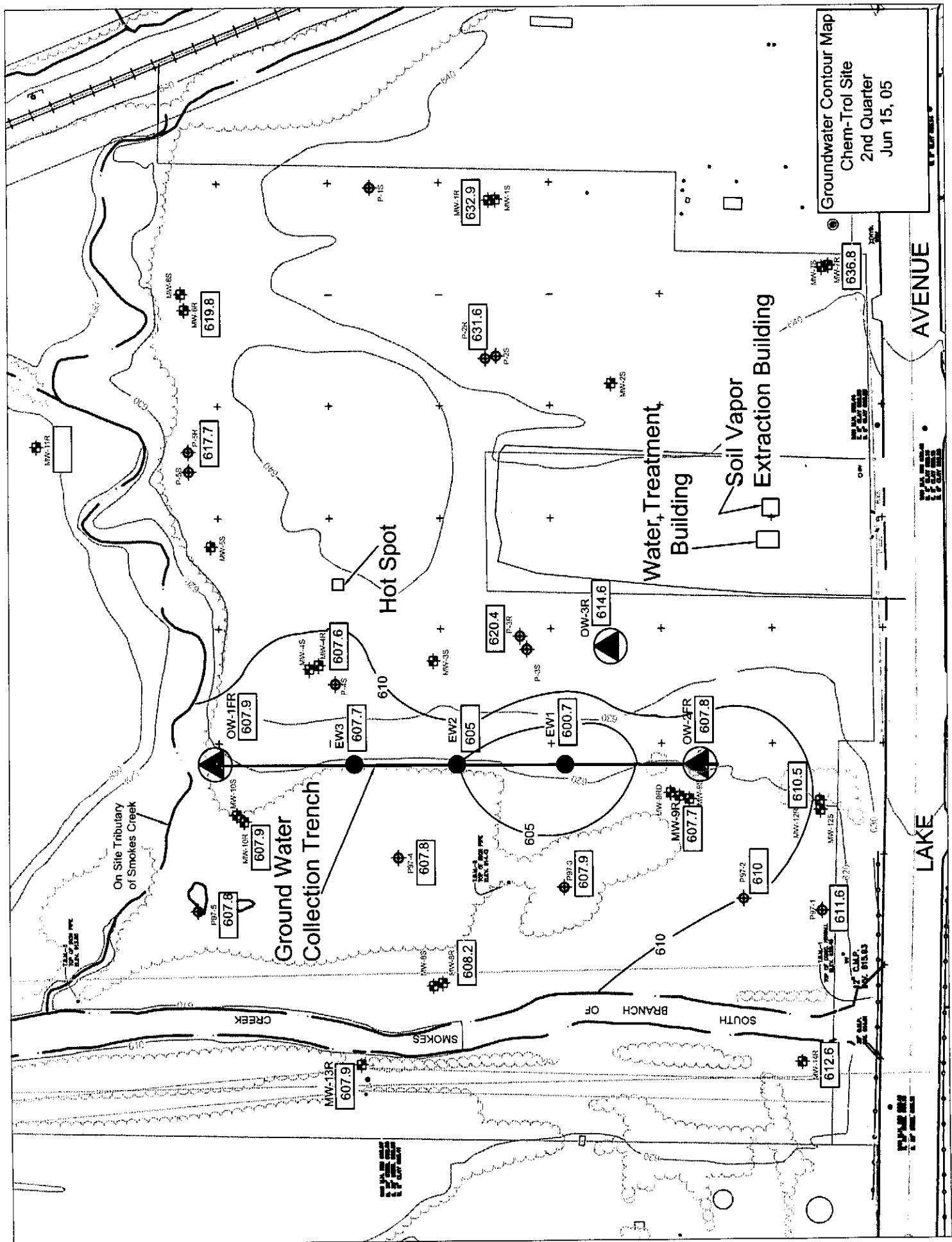
**Attachment B**

**Quarterly Ground Water Contour Maps**

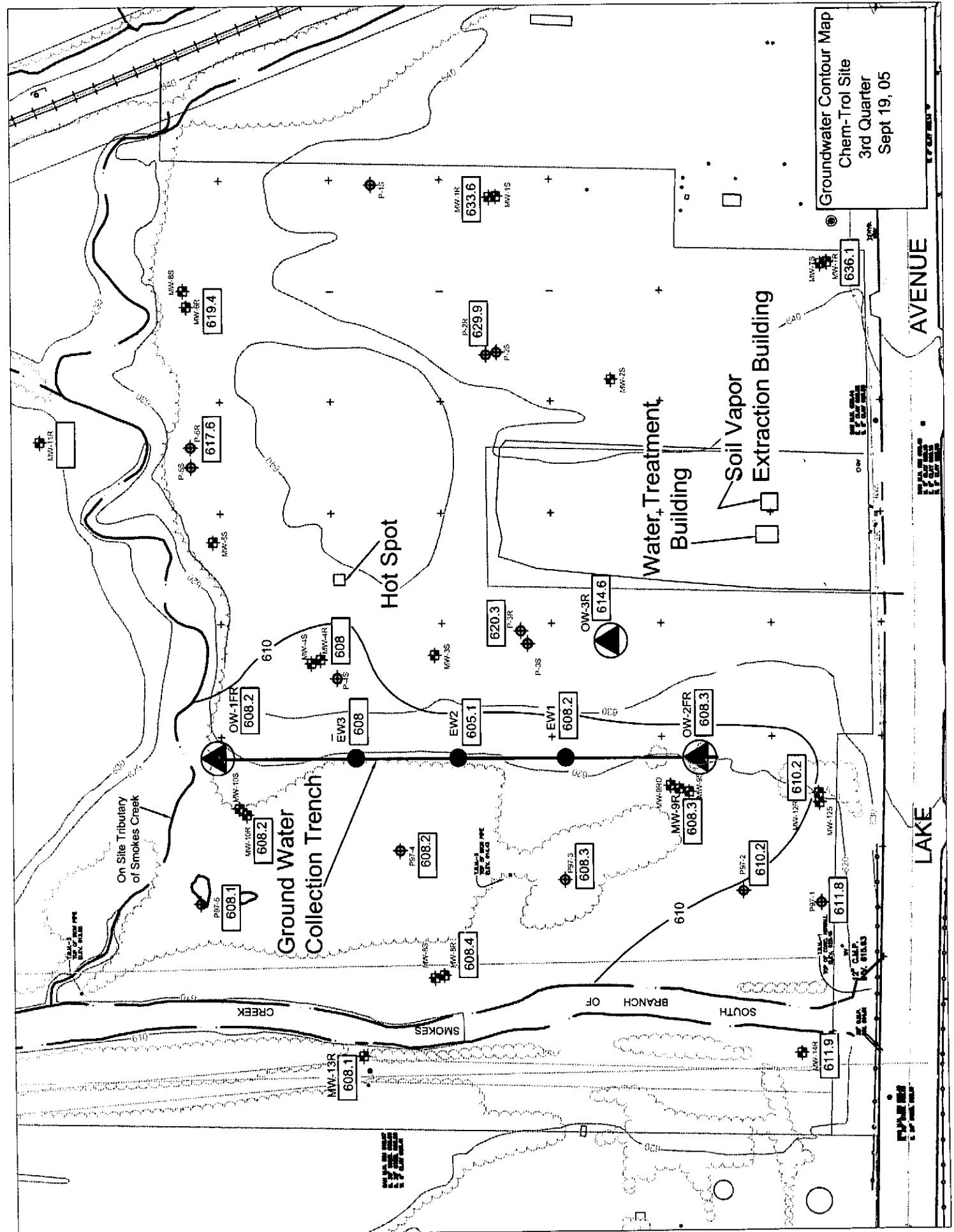
Groundwater Contour Map  
Chem-Trol Site  
1st Quarter  
Mar 16, 05



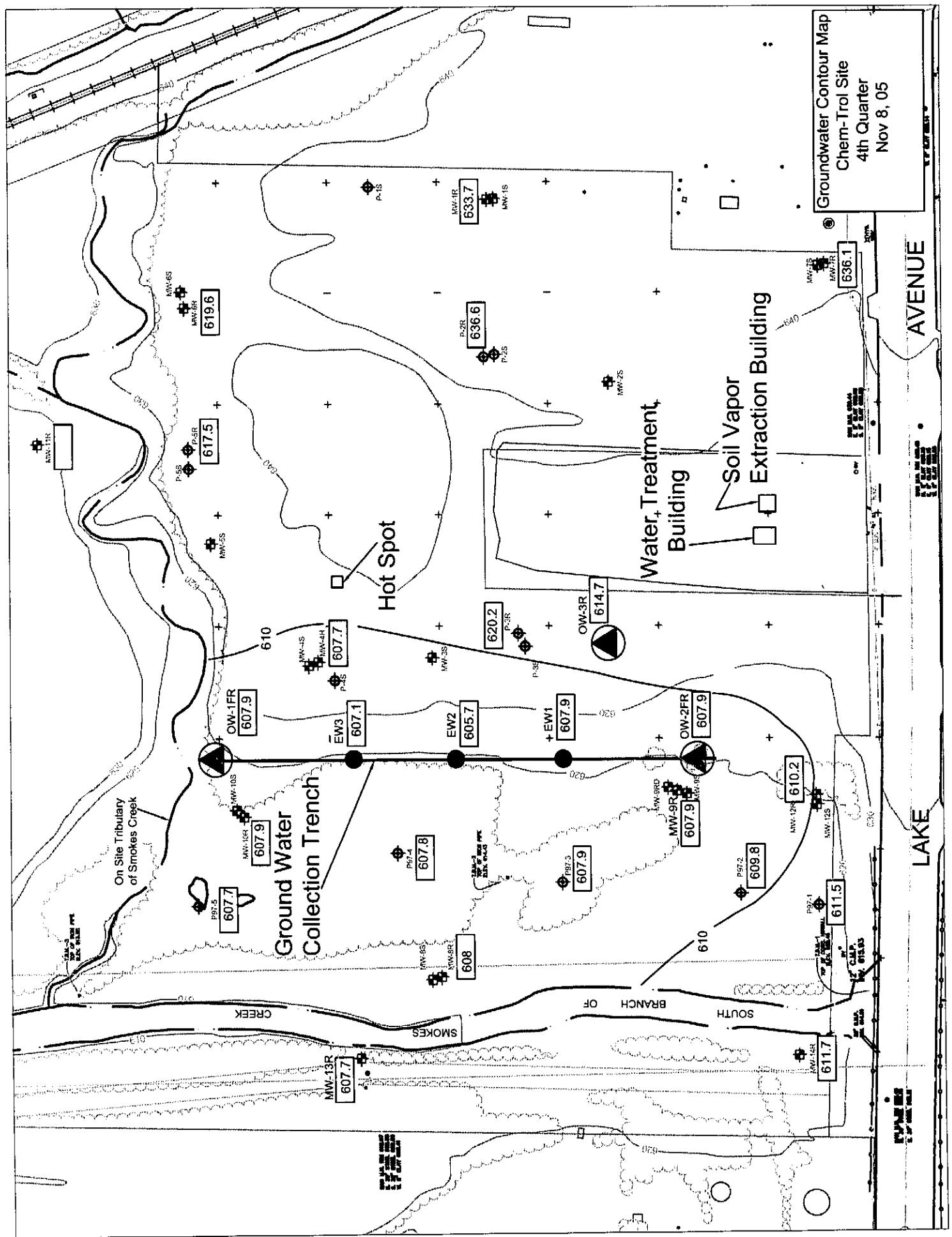
Groundwater Contour Map  
Chem-Trol Site  
2nd Quarter  
Jun 15, 05



Groundwater Contour Map  
Chem-Trol Site  
3rd Quarter  
Sept 19, 05



Groundwater Contour Map  
Chem-Trol Site  
4th Quarter  
Nov 8, 05



## **Attachment C**

### **Groundwater Sample Analytical Test Results – November 11, 2005**



**STL Buffalo**  
10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
[www.stl-inc.com](http://www.stl-inc.com)

## ANALYTICAL REPORT

Job#: A05-C912

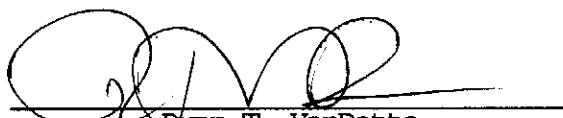
STL Project#: NY5A584515  
Site Name: Chem-Trol  
Task: CHEM-TROL

R E C E I V E D  
DEC -2 2005

 McMahon & Mann  
Consulting Engineers, P.C.

Tom Heins  
McMahon & Mann  
2495 Main Street, Suite 432  
Buffalo, NY 14214

STL Buffalo



Ryan T. VanDette  
Project Manager

11/29/2005

**STL Buffalo**  
**Current Certifications**

As of 11/29/2005

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>AFCEE</b>	AFCEE	
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP CWA, RCRA	01169CA
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP CWA, RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Iowa</b>	SW/CS	374
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Pennsylvania</b>	Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>Tennessee</b>	SDWA	02970
<b>USACE</b>	USACE	
<b>USDA</b>	FOREIGN SOIL PERMIT	S-41579
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA, RCRA	C254
<b>West Virginia</b>	CWA, RCRA	252
<b>Wisconsin</b>	CWA	998310390

## SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A5C91204FD	DUP	WATER	11/11/2005	13:10	11/11/2005	15:40
A5C91201	MW-13R	WATER	11/11/2005	14:00	11/11/2005	15:40
A5C91202	MW-15R	WATER	11/11/2005	14:15	11/11/2005	15:40
A5C91203	MW-3S	WATER	11/11/2005	13:45	11/11/2005	15:40
A5C91204	MW-7R	WATER	11/11/2005	13:10	11/11/2005	15:40
A5C91205	MW-8R	WATER	11/11/2005	13:31	11/11/2005	15:40
A5C91206	MW-9R	WATER	11/11/2005	13:16	11/11/2005	15:40
A5C91207	TB	WATER	11/11/2005		11/11/2005	15:40

## METHODS SUMMARY

Job#: A05-C912STL Project#: NY5A584515  
Site Name: Chem-Trol

PARAMETER	ANALYTICAL METHOD
AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS	SW8463 8260

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-COMFORMANCE SUMMARY

Job#: A05-C912STL Project#: NY5A584515Site Name: Chem-TrolGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A05-C912

Sample Cooler(s) were received at the following temperature(s); 6.0 °C  
All samples were received in good condition.

GC/MS Volatile Data

The analyte o-Chlorotoluene was detected in the Method Blank (A5B1803602) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte 1,2,4-Trichlorobenzene was detected in the Method Blank (A5B1811702) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 11/29/2005  
Time: 18:39:48

Dilution Log w/Code Information  
For Job A05-C912

6/35 Page: 1  
Rept: AN1266R

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
MW-13R	A5C91201DL	8260	80.00	008
MW-15R	A5C91202	8260	5.00	003
MW-3S	A5C91203DL	8260	1000.00	008
MW-8R	A5C91205DL	8260	5.00	008
MW-9R	A5C91206DL	8260	5.00	008

---

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



## **DATA QUALIFIER PAGE**

***These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.***

### **ORGANIC DATA QUALIFIERS**

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### **INORGANIC DATA QUALIFIERS**

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.











Date: 11/29/2005

Time: 18:40:00

ChemTrol Site  
CHEM-TROL13/35 Page: 6  
Rept: AN1178

Sample ID: MW-3S  
 Lab Sample ID: A5C91203DL  
 Date Collected: 11/11/2005  
 Time Collected: 13:45

Date Received: 11/11/2005  
 Project No: NY5A584515  
 Client No: L10923  
 Site No: NY22

Parameter	Result	Flag	Detection		Date/Time	
			Limit	Units	Method	Analyzed
<b>AQUEOUS-SW8463 8260 -NYSDEC TCL+2-CHLOROTOLUE</b>						
1,1,1-Trichloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,1,2,2-Tetrachloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,1,2-Trichloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,1-Dichloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,1-Dichloroethene	ND		5000	UG/L	8260	11/18/2005 22:03
1,2,4-Trichlorobenzene	ND		5000	UG/L	8260	11/18/2005 22:03
1,2-Dibromo-3-Chloropropane DBCP	ND		5000	UG/L	8260	11/18/2005 22:03
1,2-Dibromoethane (EDB)	ND		5000	UG/L	8260	11/18/2005 22:03
1,2-Dichlorobenzene	ND		5000	UG/L	8260	11/18/2005 22:03
1,2-Dichloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
1,2-Dichloropropane	ND		5000	UG/L	8260	11/18/2005 22:03
1,3-Dichlorobenzene	ND		5000	UG/L	8260	11/18/2005 22:03
1,4-Dichlorobenzene	ND		5000	UG/L	8260	11/18/2005 22:03
2-Hexanone	ND		25000	UG/L	8260	11/18/2005 22:03
Acetone	ND		25000	UG/L	8260	11/18/2005 22:03
Benzene	ND		5000	UG/L	8260	11/18/2005 22:03
Bromoform	ND		5000	UG/L	8260	11/18/2005 22:03
Bromomethane	ND		5000	UG/L	8260	11/18/2005 22:03
Carbon Disulfide	ND		5000	UG/L	8260	11/18/2005 22:03
Carbon Tetrachloride	ND		5000	UG/L	8260	11/18/2005 22:03
Chlorobenzene	ND		5000	UG/L	8260	11/18/2005 22:03
Chloroethane	ND		5000	UG/L	8260	11/18/2005 22:03
Chloroform	ND		5000	UG/L	8260	11/18/2005 22:03
Chloromethane	ND		5000	UG/L	8260	11/18/2005 22:03
cis-1,2-Dichloroethene	ND		5000	UG/L	8260	11/18/2005 22:03
cis-1,3-Dichloropropene	ND		5000	UG/L	8260	11/18/2005 22:03
Cyclohexane	ND		5000	UG/L	8260	11/18/2005 22:03,
Dibromochloromethane	ND		5000	UG/L	8260	11/18/2005 22:03
Dichlorobromomethane	ND		5000	UG/L	8260	11/18/2005 22:03
Dichlorofluoromethane	ND		5000	UG/L	8260	11/18/2005 22:03
Ethylbenzene	ND		5000	UG/L	8260	11/18/2005 22:03
Isopropylbenzene	ND		5000	UG/L	8260	11/18/2005 22:03
Methyl acetate	ND		5000	UG/L	8260	11/18/2005 22:03
Methyl Ethyl Ketone	ND		25000	UG/L	8260	11/18/2005 22:03
Methyl Isobutyl Ketone	ND		25000	UG/L	8260	11/18/2005 22:03
Methyl-t-Butyl Ether (MTBE)	ND		5000	UG/L	8260	11/18/2005 22:03
Methylcyclohexane	ND		5000	UG/L	8260	11/18/2005 22:03
Methylene chloride	ND		5000	UG/L	8260	11/18/2005 22:03
o-Chlorotoluene	90000	D	5000	UG/L	8260	11/18/2005 22:03
Styrene	ND		5000	UG/L	8260	11/18/2005 22:03
Tetrachloroethene	ND		5000	UG/L	8260	11/18/2005 22:03
Toluene	ND		5000	UG/L	8260	11/18/2005 22:03
Total Xylenes	ND		15000	UG/L	8260	11/18/2005 22:03
trans-1,2-Dichloroethene	ND		5000	UG/L	8260	11/18/2005 22:03
trans-1,3-Dichloropropene	ND		5000	UG/L	8260	11/18/2005 22:03
Trichloroethene	ND		5000	UG/L	8260	11/18/2005 22:03
Trichlorofluoromethane	ND		5000	UG/L	8260	11/18/2005 22:03
Vinyl chloride	ND		5000	UG/L	8260	11/18/2005 22:03













## Chronology and QC Summary Package



Date: 11/29/2005  
Time: 18:40:18

ChemTrol Site  
CHEM-TROL  
AQUEOUS-METHOD 8250 -NYSDDEC TCL+ VOLATILE ORGANICS

Rept: AN1247

Client ID Job No Sample Date	Lab ID	VBLK76 A05-C912	VBLK72 A05-C912	VBLK73 A05-C912	VBLK77 A05-C912
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	ug/L	ND	5.0	ND	5.0
Trichloroethene	ug/L	ND	5.0	ND	5.0
Trichlorofluoromethane	ug/L	ND	5.0	ND	5.0
Vinyl chloride	ug/L	ND	5.0	ND	5.0
Total Xylenes	ug/L	ND	15	ND	15
o-Chlorotoluene	ug/L	ND	5.0	ND	5.0
IS/SURROGATE(S)	%	104	50-200	101	50-200
Chlorobenzene-D5	%	108	50-200	111	50-200
1,4-Difluorobenzene	%	93	50-200	100	50-200
1,4-Dichlorobenzene-D4	%	101	76-122	96	76-122
Toluene-D8	%	95	73-120	89	73-120
p-Bromofluorobenzene	%	104	72-143	98	72-143
1,2-Dichloroethane-D4	%			99	99

NA = Not Applicable ND = Not Detected



Date: 11/29/2005  
 Time: 18:40:18  
 Client ID: AN1247

ChemTrol Site  
 CHEM-TROL

AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

Client ID Job No Sample Date	Lab ID	vb1k84 A05-C912	A5C91209	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units								
1,1,2-Trichloro-1,2,2-trifluor	ug/L	ND	5.0	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/L	ND	5.0	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	ug/L	ND	5.0	NA	NA	NA	NA	NA	NA
Vinyl chloride	ug/L	ND	15	NA	NA	NA	NA	NA	NA
Total xylenes	ug/L	ND	5.0	NA	NA	NA	NA	NA	NA
o-Chlorotoluene	ug/L								
Is/SURROGATE(S)	%	94	50-200	NA	NA	NA	NA	NA	NA
Chlorobenzene-D5	%	94	50-200	NA	NA	NA	NA	NA	NA
1,4-Difluorobenzene	%	89	50-200	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene-D4	%	105	76-122	NA	NA	NA	NA	NA	NA
Toluene-D8	%	98	73-120	NA	NA	NA	NA	NA	NA
p-Bromofluorobenzene	%	114	72-143	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane-D4	%								

NA = Not Applicable

ND = Not Detected

Date : 11/29/2005 18:40:31  
Job No: A05-c912

CHEMTROL SITE

Rept: AN0364

25/35

STL Buffalo

Client Sample ID: VBLK76  
Lab Sample ID: A5B1811702

MSB76  
A5E1811701

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank	QC Spike LIMITS
AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATIL.	UG/L	28.0	25.0	112	65-142
1,1-Dichloroethene	UG/L	29.8	25.0	119	71-120
Trichloroethene	UG/L	28.0	25.0	112	67-126
Benzene	UG/L	26.5	25.0	106	69-120
Toluene	UG/L	27.2	25.0	109	73-120
Chlorobenzene					

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

Date : 11/29/2005 18:40:31  
 Job No: A05-C912

CHEMTROL SITE

Rept: AN0364

client Sample ID: vblk72  
 Lab Sample ID: A5B1796002

msb72  
 A5B1796001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATIL	µg/L	27.9	25.0	112	65-142
1,1-Dichloroethene	µg/L	27.5	25.0	110	71-120
Trichloroethene	µg/L	26.4	25.0	106	67-126
Benzene	µg/L	26.0	25.0	104	69-120
Toluene	µg/L	26.4	25.0	106	73-120
Chlorobenzene					

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date : 11/29/2005 18:40:31  
Job No: A05-6912

Rept: AN0364

CHEMTROL SITE

Client Sample ID: vblk73  
Lab Sample ID: A5B1803602

nsb73  
A5B1803601

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
AQUEOUS-METHOD 8260 -NYSDEC TCL+	µg/L	25.7	25.0	103	65-142
1,1-Dichloroethene	µg/L	26.4	25.0	106	71-120
Trichloroethene	µg/L	25.8	25.0	103	67-126
Benzene	µg/L	25.5	25.0	102	69-120
Toluene	µg/L	25.9	25.0	104	73-120
Chlorobenzene	µg/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

Date : 11/29/2005 18:40:31  
 Job No: A05-C912

## CHEMTROL SITE

Rept: AN0364

Client Sample ID: vblk77  
 Lab Sample ID: ASB1817902

msb77  
 ASB1817901

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATIL	µg/L	25.8	25.0	103	65-142
1,1-Dichloroethene	µg/L	27.7	25.0	111	71-120
Trichloroethene	µg/L	26.1	25.0	105	67-126
Benzene	µg/L	25.1	25.0	101	69-120
Toluene	µg/L	25.5	25.0	102	73-120
Chlorobenzene					

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date : 11/29/2005 18:40:31  
 Job No: A05-C912

Report: AN0364  
 CHEMTROL SITE

Client Sample ID: vblk84  
 Lab Sample ID: A5c91209

#Sb84  
 A5c91208

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
AQUEOUS-METHOD 82260 -NYSDEC TCL+ VOLATIL	µg/L	29.2	25.0	117	65-142
1,1-Dichloroethene	µg/L	29.1	25.0	117	71-120
Trichloroethene	µg/L	27.5	25.0	110	67-126
Benzene	µg/L	25.6	25.0	102	69-120
Toluene	µg/L	25.9	25.0	104	73-120
Chlorobenzene					

\* Indicates Result is outside QC Limits  
 NC = Not Calculated ND = Not Detected

Date: 11/29/2005  
Time: 18:40:51

SAMPLE CHRONOLOGY

Rept: AN1248  
Page: 1

AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS					
SAMPLE CHRONOLOGY					
Client Sample ID	DUP	MW-13R	MW-13R	MW-15R	MW-3S
Job No & Lab Sample ID	A05-c912 A5C91204FD	A05-c912 A5C91201	A05-c912 A5C91201DL	A05-c912 A5C91202	A05-c912 A5C91203
Sample Date	11/11/2005 13:10	11/11/2005 14:00	11/11/2005 14:00	11/11/2005 14:15	11/11/2005 13:45
Received Date	11/11/2005 15:40	11/11/2005 15:40	11/11/2005 15:40	11/11/2005 15:40	11/11/2005 15:40
Extraction Date					
Analysis Date	11/25/2005 21:28	11/17/2005 01:47	11/19/2005 18:26	11/17/2005 12:16	11/17/2005 02:35
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	80.0	5.0	1.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

Date: 11/29/2005  
Time: 18:40:51

SAMPLE CHRONOLOGY

Rept: AN1248  
Page: 2

AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

Client Sample ID	MW-3S A05-C912	MW-7R A05-C912	MW-7R A05-C912	MW-8R A05-C912	MW-8R A05-C912	MW-9R A05-C912	MW-9R A05-C912
Job No & Lab Sample ID	11/11/2005 13:45 11/11/2005 15:40	11/11/2005 13:10 11/11/2005 15:40	11/11/2005 13:10 11/11/2005 15:40	11/11/2005 13:31 11/11/2005 15:40	11/11/2005 13:31 11/11/2005 15:40	11/11/2005 13:31 11/11/2005 15:40	11/11/2005 13:16 11/11/2005 15:40
Sample Date							
Received Date							
Extraction Date							
Analysis Date	11/18/2005 22:03	11/25/2005 21:04	11/17/2005 03:47	11/17/2005 03:27	11/17/2005 03:27	11/17/2005 04:11	
Extraction HT Met?	-	-	-	-	-	-	
Analytical HT Met?	YES	YES	YES	YES	YES	YES	
Sample Matrix	WATER 1000.0	WATER 1.0	WATER 1.0	WATER 5.0	WATER 1.0	WATER 1.0	
Dilution Factor	0.005 LITERS						
Sample wt/vol % Dry							

NA = Not Applicable

Date: 11/29/2005  
Time: 18:40:51

Rept: AN1248  
Page: 3

## AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

Client Job No & Lab	Sample ID	MW-9R	
	Sample ID	A05-C012	A5C91206DL
Sample Date Received		11/11/2005	13:16
Extraction Date		11/11/2005	15:40
Analysis Date		11/17/2005	13:51
Extraction HT	Met?	-	
Analytical HT	Met?	YES	
Sample Matrix		WATER	
Dilution Factor		5.0	
Sample wt/vol		0.005	LITERS
% dry			

## SAMPLE CHRONOLOGY

Date: 11/29/2005  
Time: 18:40:51

QC SAMPLE CHRONOLOGY

Rept: AN1248  
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AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

Client Sample ID	TB	
Job No & Lab Sample ID	A05-C912	A5C91207
Sample Date	11/11/2005	
Received Date	11/11/2005	15:40
Extraction Date	11/17/2005	11:52
Analysis Date	-	
Extraction HT Met?	YES	
Analytical HT Met?	WATER	
Sample Matrix	1.0	
Dilution Factor	0.005	LITERS
Sample wt/vol		
% Dry		

NA = Not Applicable

STL Buffalo

Date: 11/29/2005  
Time: 18:40:51

QC SAMPLE CHRONOLOGY

Rept: AN1248  
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AQUEOUS-METHOD 8260 -NYSDEC TCL+ VOLATILE ORGANICS

Client Sample ID	VBLK76 A05-c912	A5B1811702	vblk72 A05-c912	A5B1796002	vblk73 A05-c912	A5B1803602	vblk77 A05-c912	A5B1817902	vblk84 A05-c912	A5C91209
Sample Date Received										
Extraction Date	11/18/2005	20:34		11/16/2005	20:35	11/17/2005	09:38	11/19/2005	10:48	11/25/2005
Analysis Date										16:41
Extraction HT Met?	-			-		-		-		-
Analytical HT Met?	-			-						
Sample Matrix	WATER			WATER		WATER		WATER		WATER
Dilution Factor	1.0			1.0		1.0		1.0		1.0
Sample Wt/vol	0.005	LITERS		0.005	LITERS	0.005	LITERS	0.005	LITERS	0.005
% Dry										

# Chain of Custody Record

**SEVERN  
TRENT**

**STL**  
**Severn Trent Laboratories, Inc.**

STL-4124 (Rev 0)

Client **Chem-Tri**

Address

		Project Manager <b>RTV</b>		Date <b>11-11-05</b>		Chain of Custody Number <b>250603</b>																																																																																																																	
		Telephone Number (Area Code)/Fax Number		Lab Number		Page <b>of</b>																																																																																																																	
Project Name and Location (State)		Site Contact		Lab Contact		Analysis (Attach list if more space is needed)																																																																																																																	
<table border="1"> <thead> <tr> <th colspan="8">Contract/Purchase Order/Quote No. <b>AC 55432 NY SASYNSIS 2</b></th> </tr> <tr> <th colspan="8">Sample I.D. No. and Description (Containers for each sample may be combined on one line)</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>#</th> <th>Matrix</th> <th colspan="4">Containers &amp; Preservatives</th> </tr> <tr> <th>shondy</th> <th>hrs</th> <th>Specs</th> <th>Pres.</th> <th>HNO<sub>3</sub></th> <th>HNO<sub>4</sub></th> <th>HCl</th> <th>HBr</th> </tr> <tr> <th>lupers</th> <th></th> <th></th> <th></th> <th>X</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>DUP</b></td> <td><b>1310</b></td> <td><b>X</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-13R</b></td> <td><b>1400</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-15R</b></td> <td><b>1415</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-3S</b></td> <td><b>1345</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-7R</b></td> <td><b>1310</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-8R</b></td> <td><b>1331</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>MW-9R</b></td> <td><b>1316</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>TBS</b></td> <td><b>0800</b></td> <td><b>1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8"><i>SLC WMS</i></td> </tr> </tbody> </table>								Contract/Purchase Order/Quote No. <b>AC 55432 NY SASYNSIS 2</b>								Sample I.D. No. and Description (Containers for each sample may be combined on one line)								Date	Time	#	Matrix	Containers & Preservatives				shondy	hrs	Specs	Pres.	HNO <sub>3</sub>	HNO <sub>4</sub>	HCl	HBr	lupers				X				<b>DUP</b>	<b>1310</b>	<b>X</b>						<b>MW-13R</b>	<b>1400</b>	<b>1</b>						<b>MW-15R</b>	<b>1415</b>	<b>1</b>						<b>MW-3S</b>	<b>1345</b>	<b>1</b>						<b>MW-7R</b>	<b>1310</b>	<b>1</b>						<b>MW-8R</b>	<b>1331</b>	<b>1</b>						<b>MW-9R</b>	<b>1316</b>	<b>1</b>						<b>TBS</b>	<b>0800</b>	<b>1</b>						<i>SLC WMS</i>							
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Special Instructions/ Conditions of Receipt <i>Turn @ MW-7R</i>																																																																																																																							
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1. Relinquished by <i>John J. Hause</i> Date <b>11-11-05</b> Time <b>1540</b> 1. Received By <i>J. Hause</i>																																																																																																																							
2. Relinquished by _____ Date _____ Time _____ 2. Received By _____ Date _____ Time _____																																																																																																																							
3. Relinquished by _____ Date _____ Time _____ 3. Received By _____ Date _____ Time _____																																																																																																																							
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Sample Disposal																																																																																																																							
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QC Requirements (Specify)																																																																																																																							
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