FINAL
SEMIANNUAL SAMPLING REPORT
(June 2006 Sampling Event)

Multi Site G
Operation, Maintenance & Monitoring

Liberty Industrial Finishing Site
Brentwood, Suffolk County, NY
Site 1-52-108

Work Assignment No.
D004445-14

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

October 2006

Prepared by:

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Bloomfield, New Jersey

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1.0 INTRODUCTION

Past releases from the Liberty Industrial Finishing Site in Brentwood, New York (Site No. 1-52-077) resulted in the contamination of soil and groundwater at the Site and surrounding areas. Earth Tech was tasked with collecting two rounds of semiannual samples from selected monitoring wells as part of a long term monitoring plan. This report presents the results from the first semiannual sampling effort conducted in June 2006.

2.0 SITE DESCRIPTION

The Liberty Industrial Finishing Superfund site is located at 550 Suffolk Avenue, Brentwood, Suffolk County, New York (see Figure 1). The Site is bounded to the north by Suffolk Avenue, by the Long Island Railroad to the south, and undeveloped land to the east and the west. The groundwater flow direction is to the southeast in the vicinity of the Site based on previous investigations by other consultants. A total of eight wells have been identified for long-term monitoring at the Site (see Figure 2).

3.0 FIELD ACTIVITIES

The field sampling at the Liberty Industrial Finishing Site occurred on June 12 through June 22, 2006. Sampling was conducted in accordance with the Sampling and Analysis Plan (SAP) prepared by Earth Tech, dated April 2006. The SAP is comprised of the Field Sampling Plan (FSP), the Quality Assurance Project Plan (QAPP) and the Safe Work Plan (SWP). All field work was performed in Level D personal protection.

3.1 Water Level Survey

Prior to the start of sampling, water levels were measured in each well to provide a synoptic event. Water level measurements were recorded in the Field Notebook and on the Well Sampling Forms. Each location was photo-documented and a hand-held GPS unit was used to record the coordinates. The coordinates and well location comments are provided on Table 1.

3.2 Groundwater Sampling

Eight monitoring wells were identified for long term monitoring at the Site. The selected wells included MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20 and MW-21. Well Sampling Forms are in Appendix A.

Earth Tech used either a Honda centrifugal or a Waterra Hydrolift pump with black polyethylene tubing with a foot valve to purge each monitoring well prior to sampling. When the depth to water was too great for the centrifugal pump, the Waterra Hydrolift pump was used. Monitoring wells were purged of at least three casing volumes of water prior to sampling. Measurements of pH, specific conductance, temperature and turbidity were recorded on the Well Sampling Forms after each well volume was removed. Once the minimum volume of water has been evacuated, a dedicated Teflon bailer was used to collect a groundwater sample. The sample was placed into laboratory supplied containers placed in an ice-filled cooler. The samples were then transported to Mitkem Laboratory via Federal Express. Proper chain-of-custody procedures and requirements were maintained throughout the sampling event in accordance with the QAPP.

4.0 SAMPLING RESULTS

The samples from monitoring wells MW-5, MW-6, MW-12, MW-14, MW-18, MW-19, MW-20, and MW-21 were labeled with the L- prefix to denote they were collected from the Liberty site. Groundwater, surface water and sediment samples were analyzed for target analyte list metals (TAL metals) using USEPA Method 6000/7000. The analyses were performed by Mitkem Laboratory of Warwick, Rhode Island, a NYSDOH ELAP certified laboratory (ELAP certification number 11522). Data validation was not performed. The Mitkem Data Summary packages are included in Appendix B. An Earth Tech chemist provided a limited review of the data packages. A summary of the detections is presented in Table 2. The exceedances are also shown on Figure 3.

Antimony was detected in monitoring well MW-5 at a concentration of 3.7 micrograms per liter (µg/L) which exceeds the Class GA criterion of 3 µg/L. There were no other exceedances.

Antimony was detected in monitoring well MW-6 at a concentration of 3.1 µg/L which exceeds the Class GA criterion of 3.0 µg/L. There wee no other exceedances.

Iron was detected in monitoring well MW-12 at a concentration of 467 µg/L which exceeds the Class GA criterion of 300 µg/L. There were no other exceedances.

There were three exceedances in monitoring well MW-14. Chromium was detected at a concentration of 95.8 µg/L which exceeds the Class GA criterion of 50 µg/L. Iron was detected at a concentration of 728 µg/L which exceeds the Class GA criterion of 300 µg/L. Sodium was detected at a concentration of 31,900 µg/L which exceeds the Class GA criterion of 20,000 µg/L. There were no other exceedances.

Sodium was detected in monitoring well MW-18 at a concentration of 30,000 µg/L which exceeds the NYSDEC Groundwater Criteria of 20,000 µg/L. There were no other exceedances.

There were no metals exceedances of the Class GA criteria in monitoring well MW-19.

There were two exceedances in monitoring well MW-20. Iron was detected at a concentration of 1,710 µg/L which exceeds the Class GA criterion of 300 µg/L and sodium was detected at a concentration of 21,800 µg/L which exceeds the Class GA criterion of 20,000 µg/L. There were no other exceedances.

Sodium was detected in monitoring well MW-21 at a concentration of 24,500 µg/L which exceeds the Class GA criterion of 20,000 µg/L. There were no other exceedances.

5.0 SUMMARY AND RECOMMENDATIONS FOR FUTURE SITE REMEDIATION ACTIVITIES

Base on a review of the analytical data, concentrations of antimony, iron, sodium, and chromium were found above the NYSDEC Groundwater Criteria.

The two concentrations of antimony were less than two times the Class GA criterion. The presence of antimony may be attributed to the presence of suspended soil and mineral particles in the unfiltered groundwater sample.

Chromium was found to exceed the Class GA criterion only in monitoring well MW-14.

The sodium and iron concentrations found in MW-12, MW-18, MW-20, and MW-21 may potentially be attributed to saltwater intruding into the groundwater or may represent background conditions.

In accordance with the work assignment, Earth Tech will perform two additional rounds of groundwater sampling and analysis to assess the trends of contaminant levels in the groundwater.

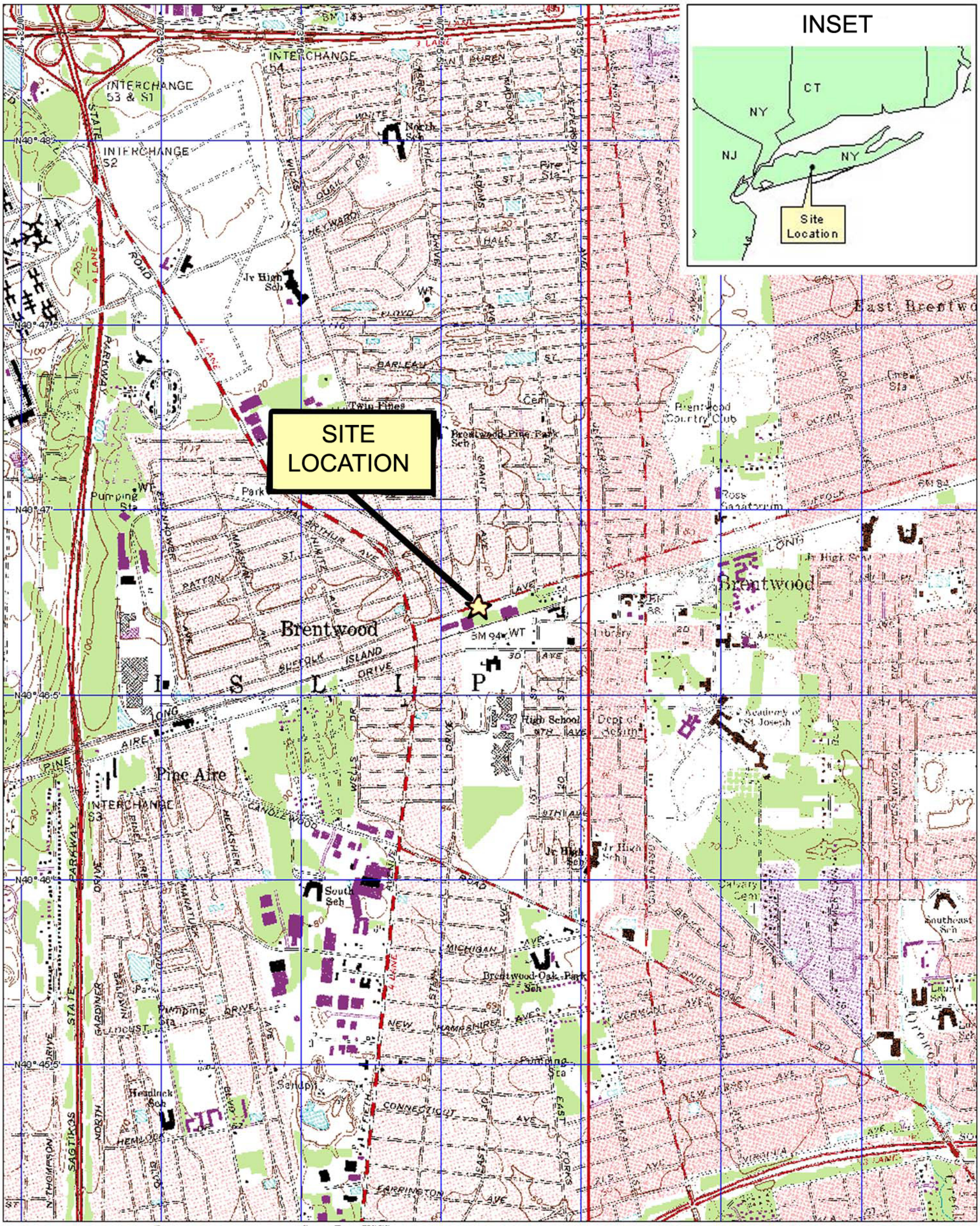
TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE
MONITORING WELL LOCATIONS

Well ID	Latitude	Longitude	Comments
MW-6	40° 46.70	73° 15.27	Between building slab and LIRR fence line in the vegetation
MW-5	40° 46.70	73° 15.26	Between building slab and LIRR fence line in the vegetation
MW-12	40° 46.63	73° 15.15	Outside VFW parking lot entrance on the south side along First Street
MW-14	40° 46.62	73° 15.16	Outside VFW parking lot entrance on the south side along First Street
MW-18	40° 46.67	73° 15.27	Within a fenced in area behind the water tower on the water department property
MW-19	40° 46.67	73° 15.26	Within a fenced in area behind the water tower on the water department property
MW-20	40° 46.62	73° 15.14	Along 3rd Avenue just east of the intersection with First Street
MW-21	40° 46.62	73° 15.14	Along 3rd Avenue just east of the intersection with First Street

TABLE 2
LIBERTY INDUSTRIAL FINISHING SITE
SUMMARY OF TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5		MW-6		MW-12		MW-14		MW-18		MW-19		MW-20		MW-21	
Sample ID	Class GA	LMW-5		LMW-6		LMW-12		LMW-14		LMW-18		LMW-19		LMW-20		LMW-21	
Laboratory ID	Groundwater	E0833-01A		E0833-02A		E0833-03A		E0833-04A		E0868-14A		E0868-15A		E0833-05A		E0833-06A	
Sample Date	Criteria	6/12/06		6/12/06		6/14/06		6/14/06		6/22/06		6/22/06		6/14/06		6/14/06	
Matrix	water	water		water		water		water		water		water		water		water	
Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	238		ND		445		780		135	B	53.4	B	223		ND	
Antimony	3	***3.7***	B	***3.1***	B	1.8	B	1.5	B	ND		ND		1.7	B	1.9	B
Arsenic	25	2.2	B	ND		ND		ND		ND		ND		ND		2.2	B
Barium	1,000	49.3	B	24.9	B	45.2	B	40.5	B	74.8	B	14.2	B	38.9	B	79.3	B
Beryllium	3	ND		ND		0.38	B	ND		ND		ND		ND		ND	
Cadmium	10	0.13	B	ND		0.52	B	4.9	B	0.33	B	1.1	B	1	B	ND	
Calcium	NC	19,000		9,880		13,100		13,100		12,800		9,900		13,200		7,520	
Chromium	50	18.2	B	0.79	B	2.5	B	***95.8***		3.3	B	1	B	4.6	B	0.94	B
Cobalt	NC	0.67	B	0.31	B	0.63	B	2	B	0.48	B	ND		0.92	B	0.48	B
Copper	200	23.8	B	15.6	B	14.9	B	22.2	B	ND		ND		13.6	B	ND	
Iron	300	198	B	45.2	B	***467***		***728***		212		54.2	B	***1710***		31.4	B
Lead	25	1.3	B	ND		7.7	B	2.9	B	ND		ND		1.5	B	ND	
Magnesium	35,000	2,040	E	2,980	E	3,710	E	1,610	E	5,440		3,180		6,050	E	5,440	E
Manganese	300	15.1	B	5.9	B	77.3		35.3	B	169		3.5	B	27.8	B	26.4	B
Nickel	100	3.3	B	3.6	B	3.4	B	7.5	B	1.4	B	ND		4.6	B	1.9	B
Potassium	NC	4,330		759	B	2,280		3,320		10,800		816	B	2,050		5,670	
Selenium	10	ND		1.6	B	2.6	B	ND		ND		ND		1.1	B	4.1	B
Sodium	20,000	4,460		10,100		11,700		***31,900***		***30,000***		10,200		***21,800***		***24,500***	
Vanadium	NC	ND		ND		0.77	B	0.58	B	ND		ND		0.48	B	ND	
Zinc	2,000	29.1	B	24.8	B	26.1	B	40.1	B	25	B	42.8	B	48.7	B	14.2	B

ND - Not Detected
B - Estimated value
BOLD/Italics - Exceeds criterion
E - Estimated value due to interference



Scale 1:25,000

750 FT

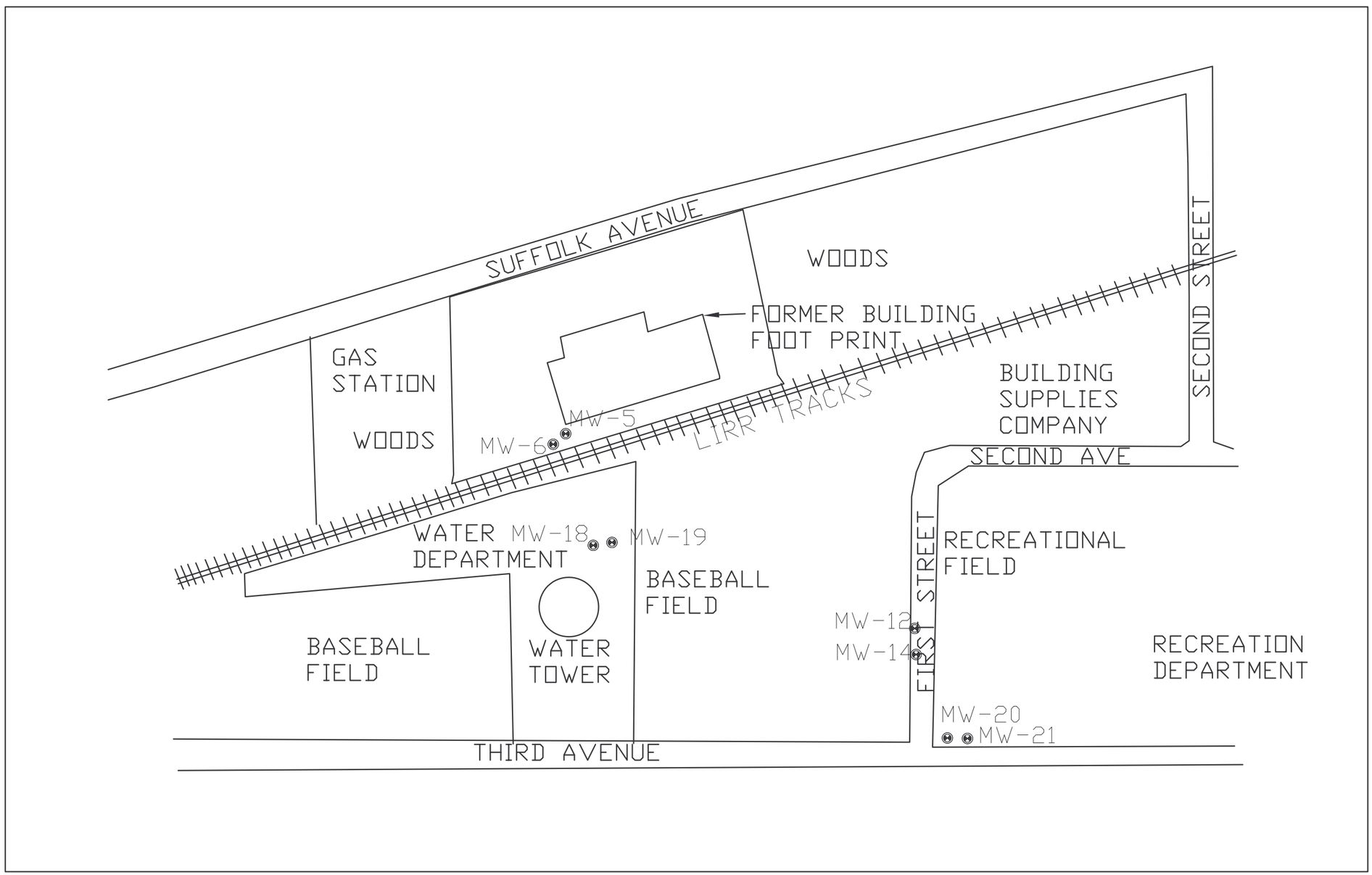
N

Figure 1 - Site Location

SOURCE:
Delorme 3-D TopoQuads
Greenlawn, NY
New York
7.5 Minute Series, 1979

LIBERTY INDUSTRIAL FINISHING
SITE #1-52-108
MULTI SITE G
500 SUFFOLK AVE
BRENTWOOD, NY

EarthTech
A Tyco International Ltd. Company



LEGEND:

- *FENCE LINE*
- *APPROXIMATE SITE LIMIT*
- *BUILDING*
- SB-10 — *EXIST. SOIL BORING LOCATION*
- SB-21/TW-6 — *EXIST. SOIL BORING/TEMPORARY WELL LOCATION*
- MW-4 — *PROPOSED MONITORING WELL*
- SB-25 — *PROPOSED TEMPORARY MONITORING WELL POINT*

ENVIRONMENTAL / CONSULTING ENGINEERS

300 BROADACRES DRIVE
BLOOMFIELD, NJ 07003

EARTH TECH

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT: ***LIBERTY INDUSTRIAL FINISHINGS***
BRENTWOOD, NEW YORK

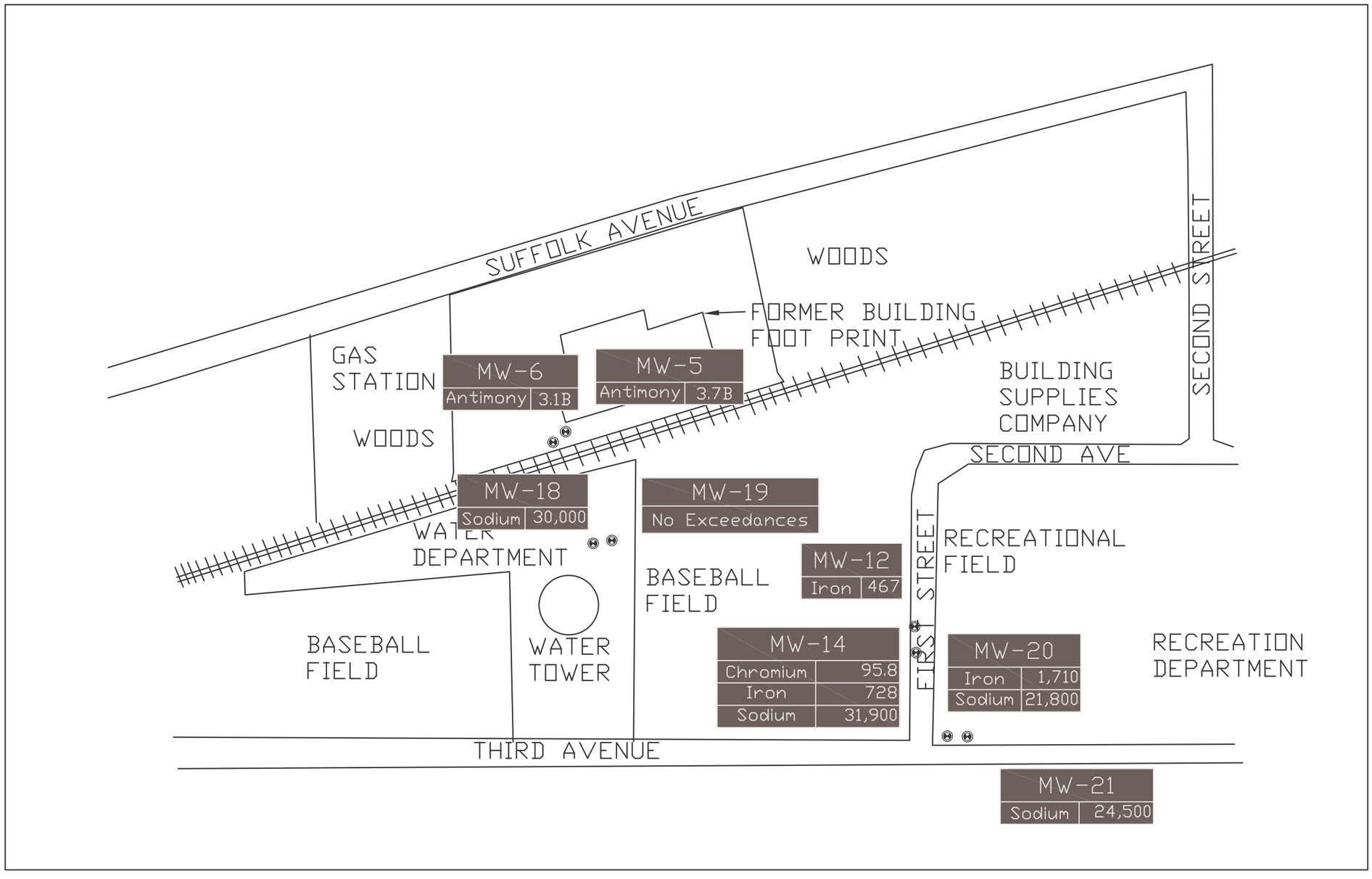
CLIENT: ***NYSDEC***
ALBANY, NY

DRAWING TITLE:

SITE PLAN

AUGUST 2006

DRAWN BY:	KDS
CHECKED BY:	PK
SCALE:	NTS
DATE:	8/25/06
PROJECT NO.	87616.05
DRAWING NO.	***FIGURE 2***



LEGEND:

MW-4 ⊗ MONITORING WELL

NOTE:
All concentrations are shown as micrograms per liter (ug/L)

ENVIRONMENTAL / CONSULTING ENGINEERS

EARTH TECH

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT:
LIBERTY INDUSTRIAL FINISHINGS
BRENTWOOD, NEW YORK

CLIENT:
NYSDEC
ALBANY, NY

DRAWING TITLE:
Summary of TAL Metals in Groundwater - June 2006

DRAWN BY:	KDS
CHECKED BY:	PK
SCALE:	NTS
DATE:	8/25/06
PROJECT NO.	87616.05
DRAWING NO.	***FIGURE 3***

300 BROADACRES DRIVE
BLOOMFIELD, NJ 07003

APPENDIX A

WELL SAMPLING FORMS

EarthTech

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WELL NO. LMW-5

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/12/06	DATE WELL COMPLETED: 6/12/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 3.13 WELL TD: 61.42 PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
1215	42.24		14.25	0.386	10.22	6.63	243.8	1.2	Purge Volume 9.39
	42.06		14.74	0.109	9.95	6.17	179.6	1.3	

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-6

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/12/06	DATE WELL COMPLETED: 6/12/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : 4.78 WELL TD: **71.50** PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
12.2	42.19		14.74	0.226	9.08	6.18	226.2	1.1	Purge Voume 14.354
	42.33		14.65	0.23	9.47	6.63	207.9	1.7	

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-12

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/14/06	DATE WELL COMPLETED: 6/14/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **1.68** WELL TD: **49.42** PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS: Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	REMARKS
	39.09		16.66	0.154	9.38	5.98	149.5	13.33	
8:20			16.52	0.133	9.27	5.75	145.6	8.72	Purge Volume 5.05 gal.
									Well box destroyed

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-14

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/14/06	DATE WELL COMPLETED: 6/14/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **9.93** WELL TD: **100.00** PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	39.13		13.76	0.264	8.05	6.09	177.7	149.6	
8:50			12.91	0.382	8.32	6.18	209.2	12.55	Purge Volume 29.80 gal.

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-18

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/22/06	DATE WELL COMPLETED: 6/22/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **17.83** WELL TD: PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	40.76		11.59	0.196	9.21	6.31	212.5	3.84	
12:40			12.63	0.239	8.57	5.32	234.1	3.12	Purge Volume 53.48 gal.

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-19

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/22/06	DATE WELL COMPLETED: 6/22/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **134.51** WELL TD: PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	41.95		11.6	0.086	8.72	7.63	122.4	3.96	
13:40			12.15	0.129	6.67	5.6	211.9	1.06	Purge Volume 403.53 gal.

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-20

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/14/06	DATE WELL COMPLETED: 6/14/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **18.00** WELL TD: **148.6** PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	38.29		12.83	0.2	8.09	5.64	229.8	13.33	
12:10			12.9	0.204	7.41	5.64	230	8.72	Purge Volume 54.00 gal.

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

EarthTech

A tyco International Ltd. Company

WELL NO. LMW-21

WELL SAMPLING FORM	PROJECT: MULTI SITE-G	PROJECT No.: 87616 / 05	SHEET: 1 OF SHEETS: 1
LOCATION: Liberty Industrial Finishing, Brentwood, NY #1-52-108		DATE WELL STARTED: 6/14/06	DATE WELL COMPLETED: 6/14/06
CLIENT: New York State Department of Environmental Conservation		NAME OF INSPECTOR: Kevin Seise, Jason Klein	
DRILLING COMPANY:		SIGNATURE OF INSPECTOR:	

ONE WELL VOLUME : **18.00** WELL TD: **148.6** PUMP INTAKE DEPTH:

Time	Depth to Water (ft)	Purge Rate (ml/min)	FIELD MEASUREMENTS						REMARKS
			Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pH	ORP	Turbidity (ntu)	
	38.3		15.09	0.188	9.9	5.78	204.6		
12:40			14.16	0.191	9.15	5.41	231.5		Purge Volume 35.35 gal.
									Duplicate
									MS
									MSD

Pump Type: Waterra Hydrolift pump with black poly tubing and a foot valve

Analytical Parameters: TAL Metals

APPENDIX B

LABORATORY DATA SUMMARY PACKAGE (FORM 1S)

APPENDIX B TABLE 1
LIBERTY INDUSTRIAL FINISHING SITE
TAL METALS IN GROUNDWATER

Sample Location	NYSDEC	MW-5		MW-6		MW-12		MW-14		MW-18		MW-19		MW-20		MW-21	
Sample ID	Class GA	LIF-MW-5		LIF-MW-6		LIF-MW-12		LIF-MW-14		LIF-MW-18		LIF-MW-19		LIF-MW-20		LIF-MW-21	
Laboratory ID	Groundwater	E0833-01A		E0833-02A		E0833-03A		E0833-04A		E0868-14A		E0868-15A		E0833-05A		E0833-06A	
Sample Date	Criteria	6/12/06		6/12/06		6/14/06		6/14/06		6/22/06		6/22/06		6/14/06		6/14/06	
Matrix		water		water		water		water		water		water		water		water	
Units	µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
		conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q	conc.	Q
Aluminum	NC	238		200	U	445		780		135	B	53.4	B	223		200	U
Antimony	3	3.7	B	3.1	B	1.8	B	1.5	B	20	U	20	U	1.7	B	1.9	B
Arsenic	25	2.2	B	20	U	20	U	20	U	20	U	20	U	20	U	2.2	B
Barium	1,000	49.3	B	24.9	B	45.2	B	40.5	B	74.8	B	14.2	B	38.9	B	79.3	B
Beryllium	3	5	U	5	U	0.38	B	5	U	5	U	5	U	5	U	5	U
Cadmium	10	0.13	B	5	U	0.52	B	4.9	B	0.33	B	1.1	B	1	B	5	U
Calcium	NC	19000		9880		13100		13100		12800		9900		13200		7520	
Chromium	50	18.2	B	0.79	B	2.5	B	95.8		3.3	B	1	B	4.6	B	0.94	B
Cobalt	NC	0.67	B	0.31	B	0.63	B	2	B	0.48	B	50	U	0.92	B	0.48	B
Copper	200	23.8	B	15.6	B	14.9	B	22.2	B	30	U	30	U	13.6	B	30	U
Iron	300	198	B	45.2	B	467		728		212		54.2	B	1710		31.4	B
Lead	25	1.3	B	10	U	7.7	B	2.9	B	10	U	10	U	1.5	B	10	U
Magnesium	35,000	2040	E	2980	E	3710	E	1610	E	5440		3180		6050	E	5440	E
Manganese	300	15.1	B	5.9	B	77.3		35.3	B	169		3.5	B	27.8	B	26.4	B
Mercury	0.7	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U	0.28	U
Nickel	100	3.3	B	3.6	B	3.4	B	7.5	B	1.4	B	50	U	4.6	B	1.9	B
Potassium	NC	4330		759	B	2280		3320		10800		816	B	2050		5670	
Selenium	10	30	U	1.6	B	2.6	B	30	U	30	U	30	U	1.1	B	4.1	B
Silver	50	30	U	30	U	30	U	30	U	30	U	30	U	30	U	30	U
Sodium	20,000	4460		10100		11700		31900		30000		10200		21800		24500	
Thallium	0.5	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Vanadium	NC	50	U	50	U	0.77	B	0.58	B	50	U	50	U	0.48	B	50	U
Zinc	2,000	29.1	B	24.8	B	26.1	B	40.1	B	25	B	42.8	B	48.7	B	14.2	B

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

July 17, 2006

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Allen Burton

RE: Client Project: Multi-Site G, Liberty
Lab Project #: E0833

Dear Mr. Burton:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

* Data Summary Pack *

Mitkem Corporation

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Multi Site – Liberty **SDG :** E0833

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
LMW-05	E0833-01				SW6010B_W	
LMW-05	E0833-01				SW7470A	
LMW-06	E0833-02				SW6010B_W	
LMW-06	E0833-02				SW7470A	
LMW-12	E0833-03				SW6010B_W	
LMW-12	E0833-03				SW7470A	
LMW-14	E0833-04				SW6010B_W	
LMW-14	E0833-04				SW7470A	
LMW-20	E0833-05				SW6010B_W	
LMW-20	E0833-05				SW7470A	
LMW-21	E0833-06				SW6010B_W	
LMW-21	E0833-06				SW7470A	
DUP	E0833-07				SW6010B_W	
DUP	E0833-07				SW7470A	

Mitkem Corporation

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Multi Site – Liberty

SDG : E0833

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
SW6010B_W				
E0833-01A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-02A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-03A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-04A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-05A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-06A	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-06ADUP	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-06AMS	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-07A	AQ	SW6010B_W	06/19/2006	07/03/2006
SW7470A				
E0833-01A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-02A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-03A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-04A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-05A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-06A	AQ	SW7470A	06/19/2006	06/30/2006
E0833-06ADUP	AQ	SW7470A	06/19/2006	06/30/2006
E0833-06AMS	AQ	SW7470A	06/19/2006	06/30/2006
E0833-07A	AQ	SW7470A	06/19/2006	06/30/2006

Report of Laboratory Analyses for Earth Tech Northeast, Inc.

Client Project: Multi-site G, Liberty

Mitkem Work Order ID: E0833

July 17, 2006

Prepared For:

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Allen Burton

Prepared By:

Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Earth Tech Northeast Inc.'s Multi-site G, Liberty, project. Under this deliverable, analysis results are presented for seven aqueous samples that were received on June 19, 2006. Analyses were performed per specifications in the project's contract and the chain of custody forms. Please note that the temperature of the sample-shipping cooler was noted to be 18 degrees C, above the normal range of 2-6 degrees C. This was communicated to the client, who approved proceeding with the analyses. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (October 1995 update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Metals Analysis:

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample LMW-21. Spike recoveries were within the QC limits.

Duplicate: duplicate analysis was performed on sample LMW-21. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample LMW-21. Percent differences were within the QC limits with the exception of magnesium. Magnesium is qualified with an "E" on the data report forms. No unusual observation was made for the analysis.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hardcopy data package.

Agnes Ng
CLP Project Manager
07/17/06

Mitkem Corporation

20/Jun/06 18:51

WorkOrder: E0833

Client ID: EARTH_NJ
Project: Multi Site
Location: LIBERTY
Comments: N/A

Case:
SDG:
PO: 152108

Report Level: ASP-B
EDD: CLF
HC Due: 07/10/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0833-01A	LMW-05	06/12/2006 14:05	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
E0833-02A	LMW-06	06/12/2006 13:00	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
E0833-03A	LMW-12	06/14/2006 08:20	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
E0833-04A	LMW-14	06/14/2006 08:50	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
E0833-05A	LMW-20	06/14/2006 12:10	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
E0833-06A	LMW-21	06/14/2006 12:40	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☑	☑	M1
					SW7470A	TAL	☐	☑	☐	M1
E0833-07A	DUP	06/14/2006 12:40	06/19/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1

Client Rep: Agnes R Ng

0004

Mitkem Corporation

20/Jun/06 18:51

WorkOrder: E0833

Client ID: EARTH_NJ
Project: Multi Site
Location: LIBERTY
Comments: N/A

Case:
SDG:
PO: 152108

Report Level: ASP-B
EDD: CLF
HC Due: 07/10/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0833-07A	DUP	06/14/2006 12:40	06/19/2006	Aqueous	SW7470A	TAL	☐	☐	☐	M1

Client Rep: Agnes R Ng

0005

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-07

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	139	B		P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	98.4	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	8950			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	0.88	B		P
7440-50-8	Copper	15.0	B		P
7439-89-6	Iron	320			P
7439-92-1	Lead	0.89	B		P
7439-95-4	Magnesium	6290		E	P
7439-96-5	Manganese	40.0	B		P
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	6930			P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	26500			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	51.1			P
7439-97-6	Mercury	0.065	U		CV

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-05

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-01

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	238			P
7440-36-0	Antimony	3.7	B		P
7440-38-2	Arsenic	2.2	B		P
7440-39-3	Barium	49.3	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	19000			P
7440-47-3	Chromium	18.2	B		P
7440-48-4	Cobalt	0.67	B		P
7440-50-8	Copper	23.8	B		P
7439-89-6	Iron	198	B		P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	2040		E	P
7439-96-5	Manganese	15.1	B		P
7440-02-0	Nickel	3.3	B		P
7440-09-7	Potassium	4330			P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	4460			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	29.1	B		P
7439-97-6	Mercury	0.065	U		CV

E=estimated value due to interference

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-06

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-02

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14	U		P
7440-36-0	Antimony	3.1	B		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	24.9	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	9880			P
7440-47-3	Chromium	0.79	B		P
7440-48-4	Cobalt	0.31	B		P
7440-50-8	Copper	15.6	B		P
7439-89-6	Iron	45.2	B		P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	2980		E	P
7439-96-5	Manganese	5.9	B		P
7440-02-0	Nickel	3.6	B		P
7440-09-7	Potassium	759	B		P
7782-49-2	Selenium	1.6	B		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	10100			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	24.8	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-12

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-03

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	445			P
7440-36-0	Antimony	1.8	B		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	45.2	B		P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	0.52	B		P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	2.5	B		P
7440-48-4	Cobalt	0.63	B		P
7440-50-8	Copper	14.9	B		P
7439-89-6	Iron	467			P
7439-92-1	Lead	7.7	B		P
7439-95-4	Magnesium	3710		E	P
7439-96-5	Manganese	77.3			P
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium	2280			P
7782-49-2	Selenium	2.6	B		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	11700			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.77	B		P
7440-66-6	Zinc	26.1	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-14

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-04

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	780			P
7440-36-0	Antimony	1.5	B		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	40.5	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	4.9	B		P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	95.8			P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	22.2	B		P
7439-89-6	Iron	728			P
7439-92-1	Lead	2.9	B		P
7439-95-4	Magnesium	1610		E	P
7439-96-5	Manganese	35.3	B		P
7440-02-0	Nickel	7.5	B		P
7440-09-7	Potassium	3320			P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	31900			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.58	B		P
7440-66-6	Zinc	40.1	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-20

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-05

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	223			P
7440-36-0	Antimony	1.7	B		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	38.9	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	1.0	B		P
7440-70-2	Calcium	13200			P
7440-47-3	Chromium	4.6	B		P
7440-48-4	Cobalt	0.92	B		P
7440-50-8	Copper	13.6	B		P
7439-89-6	Iron	1710			P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	6050		E	P
7439-96-5	Manganese	27.8	B		P
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	2050			P
7782-49-2	Selenium	1.1	B		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	21800			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.48	B		P
7440-66-6	Zinc	48.7	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-21

Lab Name: Mitkem Corporation Contract: 152108

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0833

Matrix (soil/water): WATER Lab Sample ID: E0833-06

Level (low/med): MED Date Received: 06/19/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14	U		P
7440-36-0	Antimony	1.9	B		P
7440-38-2	Arsenic	2.2	B		P
7440-39-3	Barium	79.3	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	7520			P
7440-47-3	Chromium	0.94	B		P
7440-48-4	Cobalt	0.48	B		P
7440-50-8	Copper	6.3	U		P
7439-89-6	Iron	31.4	B		P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	5440		E	P
7439-96-5	Manganese	26.4	B		P
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	5670			P
7782-49-2	Selenium	4.1	B		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	24500			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	14.2	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

Report of Laboratory Analyses for Earth Tech Northeast, Inc.

Client Project: Multi-site G, Dzus and Liberty

Mitkem Work Order ID: E0868

July 14, 2006

Prepared For:

Earth Tech Northeast, Inc.
300 Broadacres Drive
Bloomfield, NJ 07003
Attn: Mr. Allen Burton

Prepared By:

Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Earth Tech Northeast Inc.'s Multi-site G, Dzus and Liberty, project. Under this deliverable, analysis results are presented for seven aqueous and six soil samples that were received on June 23, 2006. Analyses were performed per specifications in the project's contract and the chain of custody forms, following discussions with the client. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID with laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (October 1995 update) and reported per NYSDEC ASP requirement for Category B deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Metals Analysis:

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample SED-2 for mercury only and SW-3 for the ICAP metals. Spike recoveries were within the QC limits.

Duplicate: duplicate analysis was performed on sample SED-2 for mercury only and SW-3 for the ICAP metals. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample SW-3. Percent differences were within the QC limits. No unusual observation was made for the analysis.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hardcopy data package.

Agnes Ng
CLP Project Manager
07/14/06

Mitkem Corporation

27/Jun/06 08:51

WorkOrder: E0868

Client ID: EARTH_NJ
Project: Multi Site
Location: DZUS/LIBERTY
Comments: N/A

Case:
SDG:
PO: 152033/152108

Report Level: ASP-B
EDD: CLF
HC Due: 07/14/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0868-01A	SW-1	06/21/2006 09:05	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-02A	SED-1	06/21/2006 09:15	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6
					SW7471A	TAL	☐	☐	☐	A6
E0868-03A	SW-2	06/21/2006 09:35	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-04A	SED-2	06/21/2006 09:50	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6
					SW7471A	TAL	☐	☐	☐	A6
E0868-05A	SW-3	06/21/2006 10:20	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☑	☑	M5
					SW7470A	TAL	☐	☑	☐	M5
E0868-06A	SED-3	06/21/2006 10:20	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6

Client Rep: Agnes R Ng

Mitkem Corporation

27/Jun/06 08:51

WorkOrder: E0868

Client ID: EARTH_NJ
Project: Multi Site
Location: DZUS/LIBERTY
Comments: N/A

Case:
SDG:
PO: 152033/152108

Report Level: ASP-B
EDD: CLF
HC Due: 07/14/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0868-06A	SED-3	06/21/2006 10:20	06/23/2006	Soil	SW7471A	TAL	☐	☐	☐	A6
E0868-07A	SW-4	06/21/2006 11:00	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-08A	SED-4	06/21/2006 11:00	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6
					SW7471A	TAL	☐	☐	☐	A6
E0868-09A	SW-5	06/21/2006 11:50	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-10A	SED-5	06/21/2006 11:50	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6
					SW7471A	TAL	☐	☐	☐	A6
E0868-11A	SW-6	06/21/2006 13:10	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5

Client Rep: Agnes R Ng

Mitkem Corporation

27/Jun/06 08:51

WorkOrder: E0868

Client ID: EARTH_NJ
Project: Multi Site
Location: DZUS/LIBERTY
Comments: N/A

Case:
SDG:
PO: 152033/152108

Report Level: ASP-B
EDD: CLF
HC Due: 07/14/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0868-12A	SED-6	06/21/2006 13:10	06/23/2006	Soil	PMoist		☐	☐	☐	A6
					SW6010B_S	TAL	☐	☐	☑	A6
					SW7471A	TAL	☐	☐	☐	A6
E0868-13A	DUP (SW-3)	06/21/2006 10:20	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-14A	LMW-18	06/22/2006 12:40	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
E0868-15A	LMW-19	06/22/2006 13:40	06/23/2006	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5

Client Rep: Agnes R Ng

Sample Transmittal Documentation

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY: EARTH TECH	PHONE: 973 3386680	COMPANY: SAME	PHONE	LAB PROJECT #: E0868
NAME: PAUL KARETH	FAX: 973 3381052	NAME	FAX	
ADDRESS: 300 BROADACRES DR		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP: BLOOMFIELD NJ 07003		CITY/ST/ZIP		

CLIENT PROJECT NAME: MULTI SITE "G" DZUS
CLIENT PROJECT #:
CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TAL METALS												COMMENTS
SW-1	6/21/06/0905			X			01		X												
SED-1	/0915				X		02		X												
SW-2	/0935			X			03		X												
SED-2	0950				X		04		X												
SW-3	1020			X			05		X												
SED-3	/1020				X		06		X												
SW-4	/1100			X			07		X												
SED-4	/1100				X		08		X												
SW-5	/1150			X			09		X												
SED-5	/1150				X		10		X												
SW-6	/1310			X			11		X												
SED-6	/1310				X		12		X												

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	[illegible]	6/22/06	[illegible]	6/23/06 9:15
		/		/
		/		/

ADDITIONAL REMARKS:

COOLER TEMP: 1°

WHITE: LABORATORY COPY YELLOW: REPORT COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY EARTH TECH	PHONE 973-3386680	COMPANY SAME	PHONE	LAB PROJECT #: E0868
NAME PAUL KARETH	FAX 9733381052	NAME	FAX	
ADDRESS 300 BROAD ACRES DR		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP BLOOMFIELD NJ 07003		CITY/ST/ZIP		

CLIENT PROJECT NAME: MULTI SITE "G" DZUS
CLIENT PROJECT #:
CLIENT P.O.#:

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	TAL METALS												COMMENTS
DUP (SW-3)	6/21/06 1020			X			13		X												
MS	6/21/06 /			X			~~13~~ DKD 6/23 05		X												
MSD	6/21/06 /			X			~~13~~ 05		X												
	/																				
	/																				
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TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	Kevin [signature]	6/22/06	Ken [signature]	6/23/06 9:15		1°
		/		/		
		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO		INVOICE TO		
COMPANY EARTH TECH	PHONE 973 538 6650	COMPANY SAME	PHONE	LAB PROJECT #: E0868
NAME PAUL KARETH	FAX 973 338 1052	NAME	FAX	
ADDRESS 300 BROADACRES DRIVE		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP BLOOMFIELD NJ 07003		CITY/ST/ZIP		

CLIENT PROJECT NAME: MULTI SITE "G" LIBERTY

CLIENT PROJECT #:

CLIENT P.O.#:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TAL METALS	COMMENTS
LMW-18	6/22/06 1240			X			14	1	X	
LMW-19	6/22/06 1340			X			15	1	X	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
	Kevin Seise	6/22/06 1	Ken Pine	6/23/06 915
		/		/
		/		/

ADDITIONAL REMARKS:

COOLER TEMP: 1°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Received By: DKD | Reviewed By: AHN | Date: 6/23/06 | MITKEM Workorder #: E0868

Client Project: Multi Site | Client: Earth Tech

1) Cooler Sealed (Yes) / No

2) Custody Seal(s) (Present) / Absent
(Coolers) / Bottles
(Intact) / Broken

3) Custody Seal Number(s) N/A

4) Chain-of-Custody (Present) / Absent

5) Cooler Temperature 1°C
Coolant Condition ice

6) Airbill(s) (Present) / Absent
Airbill Number(s) FedEx 8567 80268860

7) Sample Bottles (Intact)/Broken/Leaking

8) Date Received 6/23/06

9) Time Received 9:15

Preservative Name/Lot No:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"
E0868	01	<2					
	02						
	03	<2					
	04						
	05	<2					
	06						
	07	<2					
	08						
	09	<2					
	10						
	11	<2					
	12						
	13	<2					
	14	<2					
E0868	15	<2					

DKD 6/23/06

VOA Matrix Key:
US = Unpreserved Soil **A** = Air
UA = Unpreserved Aqu. **H** = HCl
M= MeOH **E** = Encore
N = $NaHSO_4$ **F** = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no

MITKEM CORPORATION

* Metals *

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Corporation Contract: 152033/1521

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0868

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
DUP (SW-3)	E0868-13
LMW-18	E0868-14
LMW-19	E0868-15
SED-1	E0868-02
SED-2	E0868-04
SED-2D	E0868-04DUP
SED-2S	E0868-04MS
SED-3	E0868-06
SED-4	E0868-08
SED-5	E0868-10
SED-6	E0868-12
SW-1	E0868-01
SW-2	E0868-03
SW-3	E0868-05
SW-3D	E0868-05DUP
SW-3S	E0868-05MS
SW-4	E0868-07
SW-5	E0868-09
SW-6	E0868-11

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Karolina Badura Name: KAROLINA BADURA

Date: 7/13/06 Title:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-18

Lab Name: Mitkem Corporation Contract: 152033/15

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0868

Matrix (soil/water): WATER Lab Sample ID: E0868-14

Level (low/med): MED Date Received: 06/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	135	B		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	74.8	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	12800			P
7440-47-3	Chromium	3.3	B		P
7440-48-4	Cobalt	0.48	B		P
7440-50-8	Copper	6.3	U		P
7439-89-6	Iron	212			P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	5440			P
7439-96-5	Manganese	169			P
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	10800			P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	30000			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	25.0	B		P
7439-97-6	Mercury	0.065	U		CV

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-19

Lab Name: Mitkem Corporation Contract: 152033/15

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0868

Matrix (soil/water): WATER Lab Sample ID: E0868-15

Level (low/med): MED Date Received: 06/23/06

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.4	B		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	14.2	B		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	1.1	B		P
7440-70-2	Calcium	9900			P
7440-47-3	Chromium	1.0	B		P
7440-48-4	Cobalt	0.15	U		P
7440-50-8	Copper	6.3	U		P
7439-89-6	Iron	54.2	B		P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	3.5	B		P
7440-02-0	Nickel	0.59	U		P
7440-09-7	Potassium	816	B		P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.91	U		P
7440-23-5	Sodium	10200			P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.47	U		P
7440-66-6	Zinc	42.8	B		P
7439-97-6	Mercury	0.065	U		CV

Comments: