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:

Earth Tech Northeast, Inc. 300 Broadacres Drive Bloomfield, New Jersey

TABLE OF CONTENTS

Chapte	er	Page
1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION	1
3.0 3.1 3.2	FIELD ACTIVITIES	1
4.0	SAMPLING RESULTS	2
5.0	SUMMARY AND RECOMMENDATIONS FOR FUTURE SITE REMEDIATION ACTIVITIES	2

LIST OF TABLES

- 1. Monitoring Well Location Summary
- 2. Summary of TAL Metals In Groundwater

LIST OF FIGURES

- 1. Site Location
- 2. Monitoring Well Location Map
- 3. Summary of TAL Metals in Groundwater June 2006

LIST OF APPENDICES

- A Monitoring Well Sampling Forms
- B Data Summary Package (Laboratory Summary and Form 1s)

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 (μ g/L) which exceeds the Class GA criterion of 3 μ g/L. There were no other exceedances.

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

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

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

Sodium was detected in monitoring well MW-18 at a concentration of 30,000 μ g/L which exceeds the NYSDEC Groundwater Criteria of 20,000 μ g/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 $1,710 \mu g/L$ which exceeds the Class GA criterion of $300 \mu g/L$ and sodium was detected at a concentration of $21,800 \mu g/L$ which exceeds the Class GA criterion of $20,000 \mu g/L$. There were no other exceedances.

Sodium was detected in monitoring well MW-21 at a concentration of 24,500 μ g/L which exceeds the Class GA criterion of 20,000 μ g/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

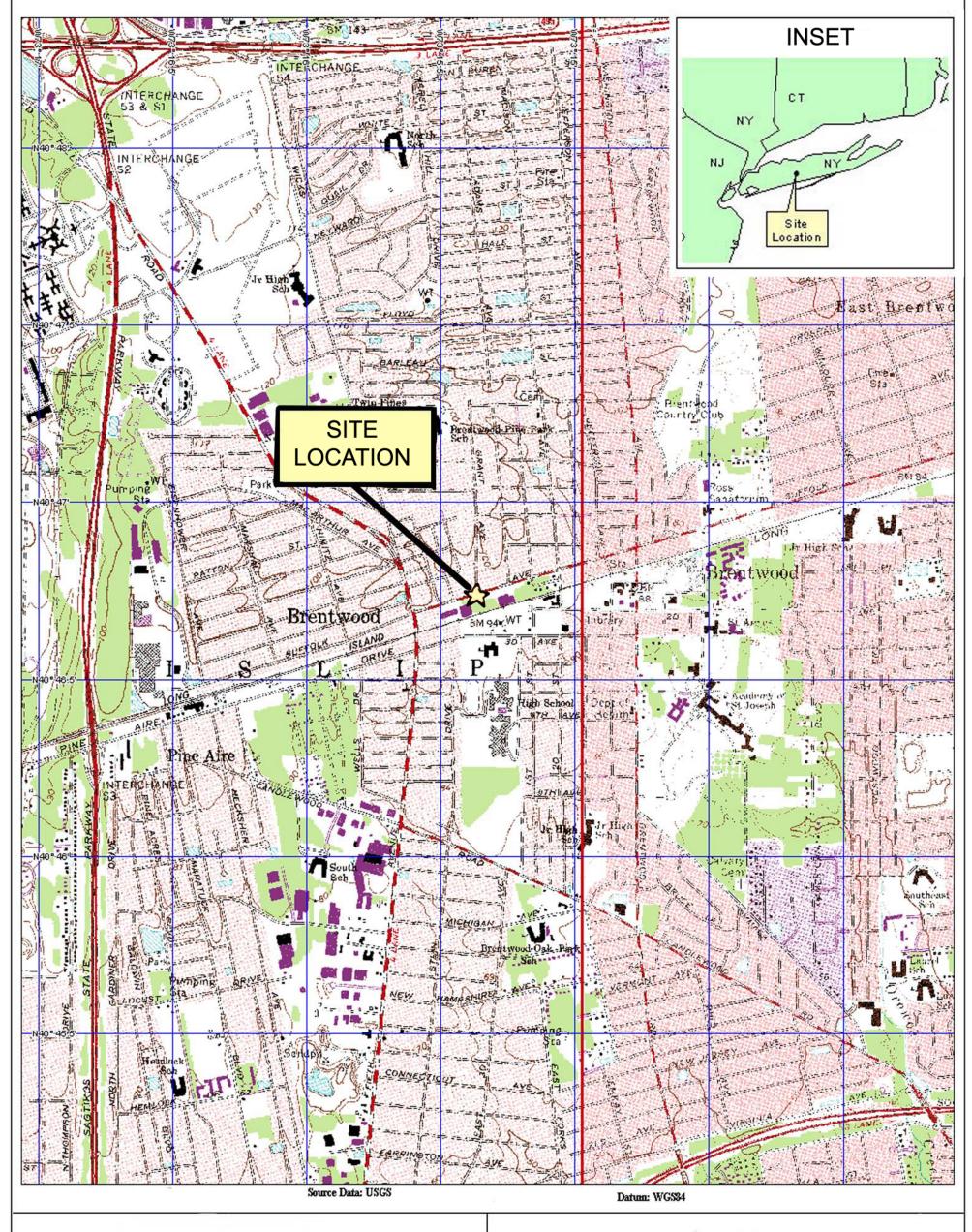
Sample Location	NYSDEC	MW-5	MW-6	MW-12	MW-14	MW-18	MW-19	MW-20	MW-21
Sample ID	Class GA	LMW-5	LMW-6	LMW-12	LMW-14	LMW-18	LMW-19	LMW-20	LMW-21
Laboratory ID	Groundwater	E0833-01A	E0833-02A	E0833-03A	E0833-04A	E0868-14A	E0868-15A	E0833-05A	E0833-06A
Sample Date	Criteria	6/12/06	6/12/06	6/14/06	6/14/06	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
	NO	000	ND	4.45	700	405 D	50 4 B	000	ND
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

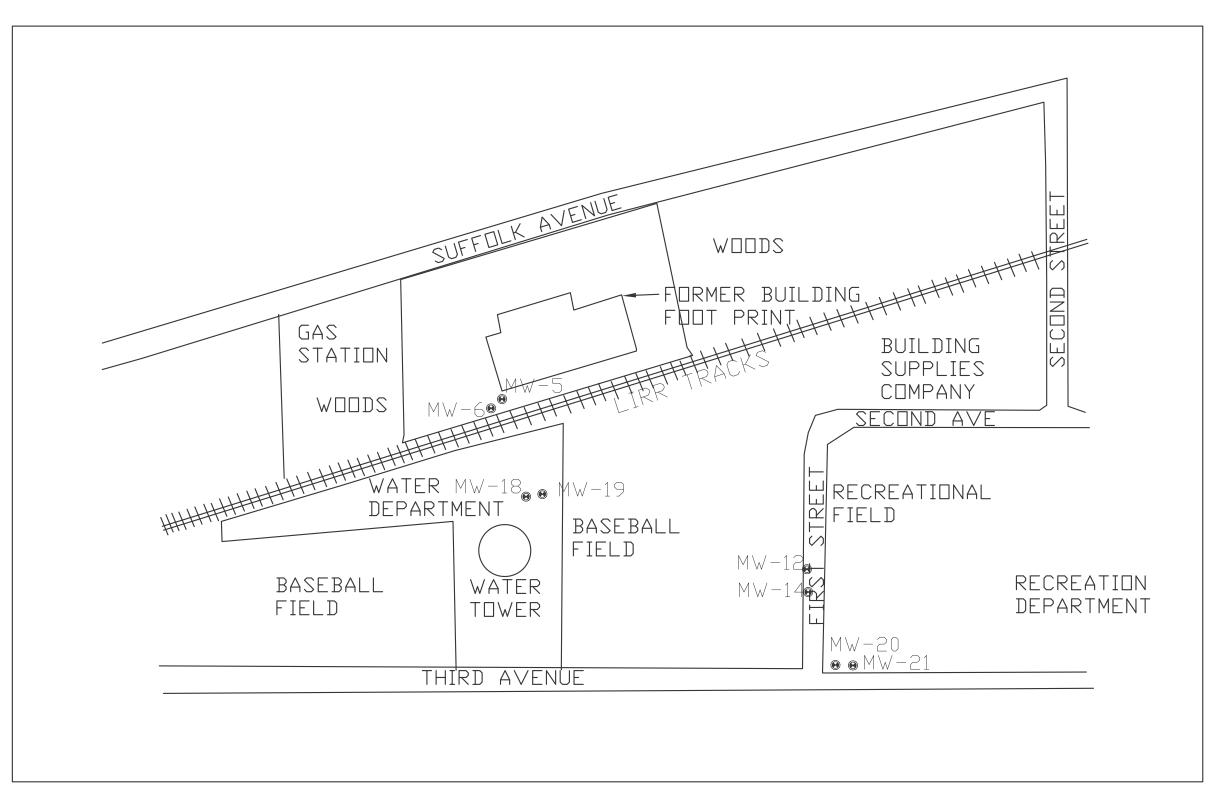
X

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

Figure 1 - Site Location

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





LEGEND:

→ FENCE LINE

APPROXIMATE SITE LIMIT

EXIST. SOIL BORING LOCATION

EXIST. SOIL BORING/TEMPORARY
SB-21/TW-6 WELL LOCATION PROPOSED MONITORING WELL

PROPOSED TEMPORARY MONITORING WELL POINT SB-25 ⊗

ENGINEERS

CONSULTING

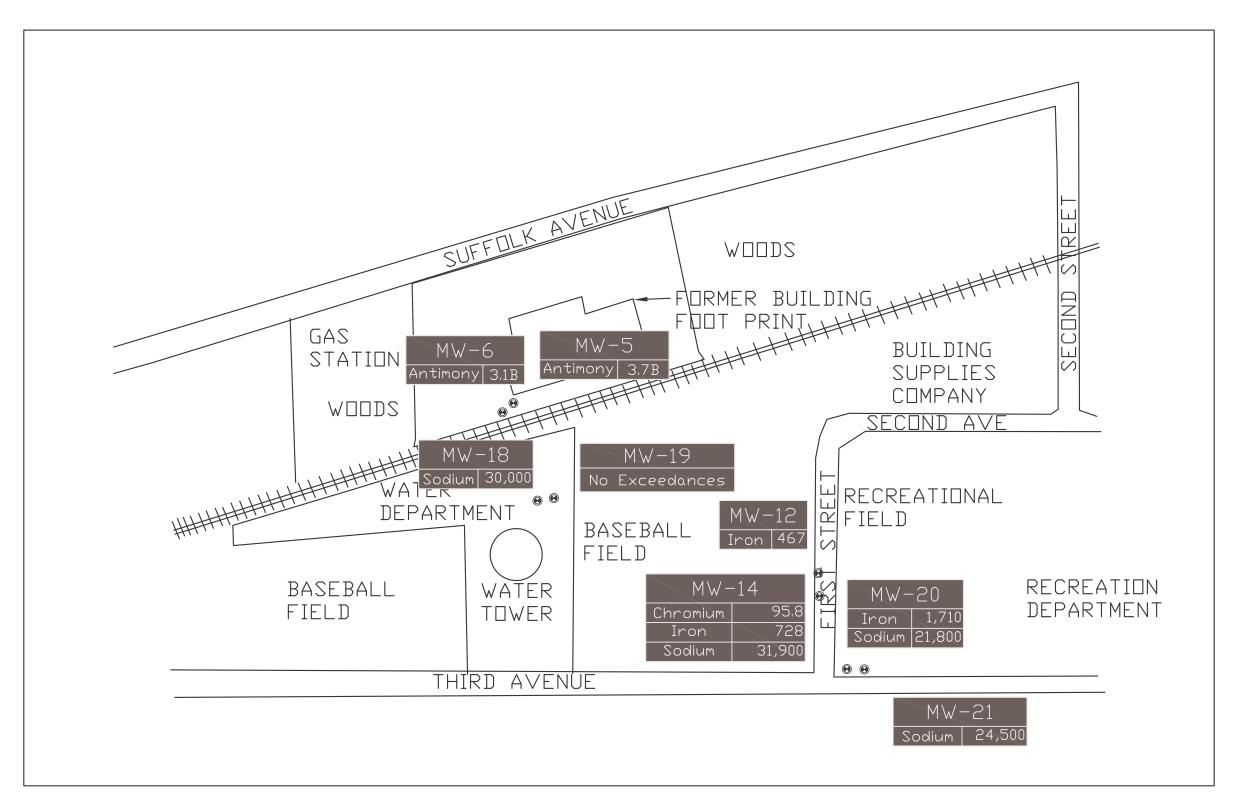
ENVIRONMENTAL

REVISIONS					
	DATE				
	Ñ.				

LIBERTY INDUSTRIAL FINISHINGS NYSDEC Albany, ny

	SITE PLAN
03	AUGUST 2006
0 '	DDAWN DV.

AUGUST	2006
AWN BY:	KDS
ECKED BY:	PK
ALE:	NTS
E:	8/25/06
DJECT NO.	87616.05
AWING NO.	
	FIGURE 2



<u>LEGEND:</u>

MW-4

MONITORING WELL

All concentrations are shown as micrograms per liter (ug/L) ENVIRONMENTAL / CONSULTIN

ENGINEERS

LIBERTY INDUSTRIAL FINISHINGS

BRENTWOOD, NEW YORK

CLIENT:
NYSDEC

ALBANY, NY

OCCUMENTS PREPARED BY EARTH TECH ARE INSTRUME OF SERVICE IN RECARDS TO THE PROJECT. THEY ARE ON INTENDED OR PORTRAVED TO BE APPROPRIATE FOR EUROSE OF OWNER OR OTHERS ON EXTENSIONS OF THE WITHOUT RECEIVED WRITTEN VALUATION OR OUTSTAND THE VALUE OF THE SPECIFIC UNITED THE SECOND OF THE SPECIFIC ULL DIMENSIONS MUST BE FIELD VERFIELD BY

DDAWING TITLE

Summary of TAL Metals in Groundwater - June 2006

AWN BY:

ECKED BY:

PK

ALE:

NTS

TE:

8/25/06

OJECT NO.

87616.05

AWING NO.

FIGURE 3

300 BROADACRES DRIVE BLOOMFIELD, NJ 07003

APPENDIX A WELL SAMPLING FORMS

Earth Tech Northeast, Inc.
October 2006



A ty	CO Inte	ernational Ltd.	Company	PROJECT					PROJECT No.	SHEET	SHEETS	
		LING FO	RM	MULTI S	ITE-G			In a received	87616 / 05	1 of	1	
CLIENT	Indust	rial Finish						6/12/06 NAME OF INSI	PECTOR	6/12/06		
New Y	ork Sta	te Depart	ment of	Environn	nental (Conser	vation	Kevin Se SIGNATURE C	ise, Jason Kl of Inspector	ein		
ONE WELI	VOLUME	:	3.13		WELL TD:		61.42		PUMP INTAKE DEPTH:			
T :	Depth	Purge	T		LD MEAS			T		DEMARKO		
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	pН	ORP	Turbidity (ntu)		REMARKS		
1215	42.24		14.25	0.386	10.22	6.63	243.8	1.2	Purge Volu	ıme 9.39		
	42.06		14.74	0.109	9.95	6.17	179.6	1.3				
									<u> </u>			
							-		-			
							 					
									-			
							-					
							 					
							-					
							<u> </u>					
Pump	Type:	Waterra	Hydrolif	ft pump w	ith blac	k poly t	ubing a	ind a foot	valve			
Analyti	cal Par	ameters:		TAL Meta	als							



A TY	CO Inte	ernational Ltd.								_	
WELL	SAMP	LING FOR		PROJECT MULTI S	ITF-G				PROJECT No. 87616 / 05	SHEET 1 OF	SHEETS 1
LOCATION Liberty CLIENT	n / Industr	rial Finishi	ing, Bre	entwood, N	NY #1-5			6/12/06	STARTED SPECTOR	DATE WELL COMPLETED 6/12/06	
New Y	ork Stat	te Departi	ment of	Environn	nental C	Conserv	<u>ration</u>	Kevin Se	eise, Jason KI of Inspector	ein	
ONE WELL	L VOLUME :	:	4.78		WELL TD:	71.50		PUMP INTAKE DEPTH:			
Time	Depth to Water	Purge Rate	Toman	FIEI Conduct.	LD MEAS		ORP	Trushidita		REMARKS	
Time	water (ft)	(ml/min)	Temp. (C)	(ms/cm)	(mg/L)	pН	ORP	Turbidity (ntu)		REWARKS	
12.2	42.19		14.74	0.226	9.08	6.18	226.2		Purge Voum	ne 14.354	
	42.33		14.65	0.23	9.47	6.63	207.9	1.7			
	<u> </u>		<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>		
	igwdapprox	<u> </u>	 	<u> </u>	igwdapprox igwedge	<u> </u>	—	 			
	igwdot	<u> </u>	<u> </u>	<u> </u>		<u> </u>			 		
	$\vdash \vdash \vdash$								 		
	$\vdash \vdash \vdash$	\vdash	\vdash	\vdash	\vdash				+		
	$\vdash \vdash \vdash$	\vdash	\vdash	\vdash		<u> </u>			 		
	\vdash						\vdash				
	$\vdash \vdash \vdash$								+		
							 				
							 		+		
									†		
						1			1		
									<u> </u>		
		'		'							
		<u> </u>		<u> </u>		ļ					
	<u></u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		
	igwdapprox igwedge	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>				
	igwdown	<u> </u>	<u> </u>	<u> </u>	igwdown	<u> </u>			<u> </u>		
	igwdows	<u> </u>	 	<u> </u>	igwdapprox	<u> </u>	—	 	_		
	$\vdash\!\!\!-\!\!\!\!-\!\!\!\!-$	<u> </u>	<u> </u>	<u> </u>		<u> </u>		 			
	igwdot	<u> </u>		<u> </u>		<u> </u>			 		
	$\vdash \vdash \vdash$	 		 	\vdash						
	$\vdash \vdash \vdash$	 	\vdash	 	\vdash		 	 	 		
											
Pump	Type:	Waterra	Hydrolif	ft pump w	ith blac	k poly t	ubing a	and a foot	valve		
Analyti	cal Para	ameters:		TAL Meta	als						



A TY	GU Inte	ernational Ltd.	. Company	PROJECT					PROJECT No.	SHEET	SHEETS
WELL	SAMP	LING FO	RM	MULTI S	ITE-G				87616 / 05	1 of	1
LOCATION	1	rial Finish		•		52-108		6/14/06		DATE WELL COMPLETED 6/14/06	
	ork Sta	te Depart	ment of	f Environr	nental (Conser	vation	Kevin Se	ise, Jason Kl	ein	
DRILLING	COMPANY							SIGNATURE (OF INSPECTOR		
ONE WELI	L VOLUME	: 1.68			WELL TD:	49.42			PUMP	INTAKE DEPTH:	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS				
Time	Water	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	1	REMARKS	
	(ft) 39.09	(1111/111111)	16.66		(mg/L) 9.38	5.98	149.5	13.33			
8:20	33.03		16.52		9.27	5.75	145.6	8.72	Purge Volun	ne 5.05 gal	
0.20			10.52	0.100	5.21	3.73	143.0	0.72	l dige voidi	ne 3.03 gai.	
									Mall bay da	atua, ca d	
									Well box de	stroyea	
							ļ				
									-		
Pumn	Type:	Waterra	Hvdroli	tt pump w	ith blac	k polv t	ubina a	and a foot	valve		
						6019	.s.oig c	1001	- 3.70		
Analyti	cai Par	ameters:		TAL Met	ais						



A **tuco** International Ltd. Company

		ernational Ltd.		PROJECT					PROJECT No.	SHEET SHEETS
WELL	SAMP	LING FO	RM	MULTI S	ITE-G				87616 / 05	1 of 1
LOCATION		rial Finiah	ina Dra	ntwood I	\I\/ #1 E	0 100		6/14/06		DATE WELL COMPLETED
CLIENT	maust	rial Finish	ing, Bre	entwood, i	NY #1-5	02-108		NAME OF INS		6/14/06
		te Depart					vation		eise, Jason Kl	ein
DRILLING	COMPANY	,						SIGNATURE (OF INSPECTOR	
ONE WEL	L VOLUME	: 9.93			WELL TD:	100.00)		PUMP I	NTAKE DEPTH:
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS			
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	1	REMARKS
	(ft) 39.13	(ml/min)	(C)	(ms/cm)	(mg/L)	6.00	177.7	(ntu) 149.6		
8:50	39.13		12.91		8.05 8.32	6.09		12.55	Durgo Volun	20.90.90
6.50			12.91	0.382	0.32	0.10	209.2	12.55	Purge voluit	ne 29.80 gal.
							-			
							-			
							-			
							-			
							-			
							 	 		
Pump	Туре:	Waterra	Hydrolii	ft pump w	ith blac	k poly t	ubing a	and a foot	valve	
Analyti	ical Par	ameters:		TAL Meta	als					



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

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

	Depth to	Purge		FIE	LD MEAS	SUREME	NTS		
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	REMARKS
	(ft)	(ml/min)	(C)	(ms/cm)				(ntu)	
	40.76		11.59	0.196	9.21	6.31	212.5	3.84	
12:40			12.63		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



ALG		ernational Ltd.		PROJECT					PROJECT No.	SHEET	SHEETS	
WELL	SAMP	LING FOI		MULTI S	ITE-G				87616 / 05	1 оғ	1	
LOCATION Liberty CLIENT		rial Finish	ing, Bre	entwood, I	NY #1-5	52-108		6/22/06		6/22/06		
New Y	ork Sta	te Depart	ment of	Environn	nental (Conser	vation	Kevin Se	ise, Jason Kl	ein		
DRILLING	COMPANY	·						SIGNATURE (OF INSPECTOR			
ONE WELL	. VOLUME	: 134.51			WELL TD:			•	PUMP	NTAKE DEPTH:		
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS					
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	1	REMARKS		
	41.95	(1111/111111)	11.6	0.086	8.72	7.63	122.4	3.96				
13:40	+1.00		12.15	0.129	6.67	5.6	211.9	1.06	Purae Volun	ne 403.53 gal.		
10.10			12.10	0.120	0.07	0.0	211.0	1.00	r argo volari	no roo.oo gan		
									1			
									1			
									-			
Pump ¹	Туре:	Waterra	Hydrolif	t pump w	ith blac	k poly t	tubing a	ınd a foot	valve			
Analyti	cal Par	ameters:		TAL Meta	als							



A L 4	GU Inte	ernational Ltd.	Company	PROJECT					PROJECT No.	SHEET	SHEETS
WELL	SAMP	LING FO	RM	MULTI S	ITE-G				87616 / 05	1 of	1
LOCATION Liberty CLIENT		rial Finish	ing, Bre	entwood, I	NY #1-5	52-108		6/14/06		6/14/06	
New Y	ork Sta	te Depart	ment of	Environn	nental (Conser	vation	Kevin Se	ise, Jason Kl	lein	
DRILLING	COMPANY							SIGNATURE C	OF INSPECTOR		
ONE WELL	. VOLUME	: 18.00			WELL TD:	148.6			PUMP	INTAKE DEPTH:	
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS				
Time	Water (ft)	Rate (ml/min)	Temp. (C)	Conduct. (ms/cm)	DO (mg/L)	рН	ORP	Turbidity (ntu)	1	REMARKS	
	38.29	(1111/111111)	12.83	0.2	8.09	5.64	229.8	13.33			
12:10	00.20		12.9	0.204	7.41	5.64	230	8.72	Purae Volun	ne 54.00 gal.	
12.10			12.0	0.201	7	0.01	200	0.72	l argo voicin	no o noo gan	
		<u> </u>	<u> </u>						<u> </u>		
Pump	Type:	Waterra	Hydroli	ft pump w	ith blac	k poly t	tubing a	ınd a foot	valve		
Analyti	cal Par	ameters:		TAL Meta	als						



A **tuco** International Ltd. Company

WELL	SVMD	LING FO	RM	PROJECT MULTI S	ITE-G				PROJECT No. 87616 / 05	SHEET SHEETS
LOCATION	JAIVIP	LING FUI	n IVI	INIOL I I S	IIE-G			DATE WELL S		DATE WELL COMPLETED
		rial Finish	ing, Bre	entwood, I	NY #1-5	52-108		6/14/06		6/14/06
								NAME OF INS		
New Y	Ork Sta	te Depart	ment of	Environn	nental (Jonser	vation	Kevin Se	ise, Jason Kl	ein
DITILLING	OOMI ANT							OIGHAT OTIE C	n moi Loron	
ONE WELL	VOLUME	: 18.00			WELL TD:	148.6			PUMP I	NTAKE DEPTH:
	Depth to	Purge		FIE	LD MEAS	SUREME	NTS			
Time	Water	Rate	Temp.	Conduct.	DO	рН	ORP	Turbidity	1	REMARKS
	(ft)	(ml/min)	(C)	(ms/cm)	(mg/L)			(ntu)		
	38.3		15.09		9.9	5.78	204.6			
12:40			14.16	0.191	9.15	5.41	231.5			ne 35.35 gal.
									Duplicate	
									MS	
									MSD	
									-	
									-	
				<u> </u>					<u> </u>	
Pump	Туре:	Waterra	Hydrolit	ft pump w	ith blac	k poly t	tubing a	ınd a foot	valve	
Analvti	cal Par	ameters:		TAL Meta	als					
,,					-					

APPENDIX B

LABORATORY DATA SUMMARY PACKAGE (FORM 1S)

Earth Tech Northeast, Inc.
October 2006

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	3.7 B 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	49.5 D	24.9 D 5 U	0.38 B	5 U	74.0 D	5 U	50.9 D	7 9.5 D
Cadmium	10	0.13 B	5 U	0.50 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	0.70 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



"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,

CLP Project Manager



* 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

			Anal	ytical Requirements		
Customer Sample ID	Laboratory Sample ID	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	
LNW-14	E0833-04				SW6010B_W	
LMW-14	E0833-04	<u>,</u>			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: <u>E0833</u>

Laboratory		Metals	Date Received	Date
Sample ID	Matrix	Requested	By Lab	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	08/19/2008	07/03/2006
E0833-06A	AQ	SW6010B_W	06/19/2006	07/03/2008
E0833-06ADUP	AQ	SW6010B_W	06/19/2006	07/03/2006
E0833-08AMS	AQ	SW60108_W	08/19/2006	07/03/2008
E0833-07A	AQ	SW6010B_W	06/19/2006	07/03/2006
SW7470A				
≣0833-01A	AQ	SW7470A	08/19/2006	06/30/2006
E0833-02A	AQ	SW7470A	06/19/2006	06/30/2006
≘0833-03A	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	06/19/2008	06/30/2006
0833-06AMS	AQ	SW7470A	06/19/2006	08/30/2008
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

Mitken	Mitkem Corporation	20	20/Jun/06 18:51	8:51	WorkO	WorkOrder: E0833
Client ID; Project: Location: Comments:	Client ID: EARTH_NJ Project: Multi Site Location: LIBERTY Comments: N/A		Case: SDG: PO: 152108		Report H	Report Level: ASP-B KDD: CLF HC Due: 07/10/06 Fax Due:
Sample ID	Client Sample ID	Collection Date Date Recy'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	
			SW7470A		TAL.	WI
E0833-02A	TMW-06	00/12/2006 13:00 06/19/2006	Aqueous SW6010B_W		TAL	MI MI
			SW7470A		TAL	W I □ □ □
E0833-03A	LMW-12	06/14/2006 08:20 06/19/2006	Aqueous SW6010B_W		TAL	NI NI
			SW7470A		TAL	Wi DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
E0833-04A	LMW-14	06/14/2006 08:50 06/19/2006	Aqueous SW6010B_W		TAL	KI MI
			SW7470A		TAL	IW
E0833-05A	LMW-20	06/14/2006 12:10 06/19/2006	Aqueous SW6010B_W		TAL	MI EN MI
			SW7470A		TAL	WI
E0833-06A	LMW-21	06/14/2006 12:40 06/19/2006	Aqueous SW6010B_W		TAI.	
Vestellandomaniamente proprieta de la composição de la com	A THE RESERVE OF THE PROPERTY		SW7470A		TAL	IW I
E0833-07A	DUP	06/14/2006 12:40 06/19/2006	Aqueous SW6010B_W		TAL	EZ WI
Client Rep.	Client Rep: Agnes R Ng				Page	1 of 2

Report Level: ASP-B EDD: CLF HC Due: 07/10/06 Fax Due:	Hold MS SEL Storage	и □ □ □	
H.	Lab Test Comments	TAL	

Test Code

Collection Date Date Recv'd Matrix

Client Sample ID

DUP

E0833-07A Sample ID

06/14/2006 12:40 06/19/2006 Aqueous SW7470A

WorkOrder: E0833

20/Jun/06 18:51

Mitkem Corporation

Client ID: EARTH_NJ Project: Multi Site Location: LIBERTY

Comments: N/A

Case: SDG: PO: 152108

2 of 2

Раде

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

DUP

Lab Name: Mitkem Corporation

Contract: <u>152108</u>

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

CAS No.	Analyte	Concentration	С	Q	M
7429-90-5	Aluminum	139	В		P
7440-36-0	Antimony	3.3	В		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	98.4	В		P
7440-41-7	Beryllium	0.15	Ü		B
7440-43-9	Cadmium	0.15	В		P
7440-70-2	Calcium	8950			P
7440-47-3	Chromium	2.3			P
7440-48-4	Cobalt	0.88	В		P
7440-50-8	Copper	15.0	B		P
7439-89-6	Iron	320			P
7439-92-1	Lead	0.89	В		P
7439-95-4	Magnesium	6290		E	P
7439-96-5	Manganese	40.0	В		P
7440-02-0	Nickel	2.7	В		P
7440-09-7	Potassium	6930			P
7782-49-2	Selenium	0.98			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
1	. I		ــــــــــــــــــــــــــــــــــــــ		·

Comm	ents:

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

ſ	T	<u> </u>	Г	T	Τ
CAS No.	Analyte	Concentration	C	Q	М
7429-90-5	Aluminum	238			P
7440-36-0	Antimony	3.7	В		P
7440-38-2	Arsenic	2.2	В		P
7440-39-3		49.3	В		Р
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.13	В		P
7440-70-2	Calcium	19000			P
7440-47-3	Chromium	18.2	В		P
7440-48-4	Cobalt	0.67	В		P
7440-50-8	Copper	23.8	В		P
7439-89-6	Iron	198	B		P
7439-92-1	Lead	1.3	В		P
7439-95-4	Magnesium	2040		E	P
7439-96-5	Manganese	15.1	В		P
7440-02-0	Nickel	3.3	В		P
7440-09-7	Potassium	4330			P
7782-49-2	Selenium	0.98	Ü		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		р
7440-66-6	Zinc	29.1	В		Р
7439-97-6	Mercury	0.065	O		CV

E- estimated value due to interference

Comme	nts:
-	
-	

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-06

Lab Name: Mitkem Corporation

Contract: <u>152108</u>

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

	7		,	· · · · · · · · · · · · · · · · · · ·	·
CAS No.	Analyte	Concentration	С	Q	М
7429-90-5	Aluminum	14	Ū		P
7440-36-0	Antimony	3.1	В		P
7440-38-2	Arsenic	1.6	Ū		P
7440-39-3	Barium	24.9	В		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.10	Ü		P
7440-70-2	Calcium	9880			P
7440-47-3	Chromium	0.79	В		P
7440-48-4	Cobalt	0.31	В		P
7440-50-8	Copper	15.6	В		P
7439-89-6	Iron	45.2	В		P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	2980		E	P
7439-96-5	Manganese	5.9	В		P
7440-02-0	Nickel	3.6	В		P
7440-09-7	Potassium	759	В		P
7782-49-2	Selenium	1.6	В		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	В	. •	P
7439-97-6	Mercury	0.065	U		CV
			-		

Comm	ents:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-12

Lab Name: Mitkem Corporation

Contract: <u>152108</u>

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

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

Comme	ents:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-14

Lab Name: Mitkem Corporation

Contract: <u>152108</u>

Case No. Lab Code: MITKEM

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

CAS No.	Analyte	Concentration	С	Q	М
7429-90-5	Aluminum	780			P
7440-36-0	Antimony	1.5	В		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	40.5	В		P
7440-41-7	Beryllium	0.15	Ü		P
7440-43-9	Cadmium	4.9	В		P
7440-70-2	Calcium	13100			P
7440-47-3	Chromium	95.8			Ъ
7440-48-4	Cobalt	2.0	В		P
7440-50-8	Copper	22.2	В		P
7439-89-6	Iron	728			P
7439-92-1	Lead	2.9	В		P
7439-95-4	Magnesium	1610		E	P
7439-96-5	Manganese	35.3	В		P
7440-02-0	Nickel	7.5	В		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	Ū		P
7440-62-2	Vanadium	0.58	В		P
7440-66-6	Zinc	40.1	В		P
7439-97-6	Mercury	0.065	U		CV
[<u> </u>				

Comm	ents:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-20

Lab Name: Mitkem Corporation

Contract: <u>152108</u>

Lab Code: MITKEM

SAS No.:

SDG No.: ME0833

Matrix (soil/water): WATER

Lab Sample ID: E0833-05

Level (low/med):

MED

Case No.

Date Received: 06/19/06

% Solids:

0.0

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

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-21

Lab Name: Mitkem Corporation

Contract: 152108

Case No. Lab Code: MITKEM

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	С	Q	M
1429-90-5	Aluminum	14	บ		P
1440-36-0	Antimony	1.9	В		P
1440-38-2	Arsenic	2.2	В		P
7440-39-3	Barium	79.3	В		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	7520			P
7440-10-2	Chromium	0.94	В		P
7440-48-4	Cobalt	0.48	В		P
7440-40-4	Copper	6.3			P
7439-89-6	Iron	31.4	В		P
	Lead	0.46	U		P
7439-92-1	Magnesium	5440		E	P
7439-95-4		26.4			P
7439-96-5		1.9		 	P
7440-02-0		5670		 	P
7440-09-7		4.1		 	P
7782-49-2		0.91			P
7440-22-4		24500		<u> </u>	P
7440-23-5		1.2	-	+	TP
7440-28-0	Thallium	0.47	-	+	P
7440-62-2			-	 	P
7440-66-6		14.2		+	CV
7439-97-6	Mercury	0.065	10		100

Common to:
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

27/Jun/06 08:51 Mitkem Corporation

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

Case:
SDG:
PO: 152033/152108

WorkOrder: E0868

Report Level: ASP-B
EDD: CLF

HC Due: 07/14/06

Fax Due:

Sample II							
or aidmin	Citent Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lah Test Commonts	To rea out elem
E0868-01A	SW-1	\$0.00 9006/10/90					TOTAL MIS SEL Storage
		77.000 07.00	9007/57/00	Aqueous	SW6010B_W	TAL	□ MS
	AMARIAN III MARIAN III AMARIAN III AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	THE TAX PROPERTY OF TAX PROPER	AND EXPERIENCES AND ANY PROPERTY AND ADDRESS OF THE PROPERTY ADDRE	TO CO. The Control of	SW7470A	TAL	M 2
E0868-02A	SED-1	06/21/2006 09:15 06/23/2006	06/23/2006	Soil	PMoist		
mentional laws on a processment of the manager process and					SW6010B_S	TAL	Ab
A consistency models communicate contents from a sparse conception.					SW7471A	TAL	
E0868-03A	SW-2	06/21/2006 09:35 06/23/2006	06/23/2006	Aqueous	SW6010B_W	TAL	
VANAL - marriefy: 1111/2/2019 Who married to 1111/2/2019		- man and Andreas			SW7470A	TAL	
E0868-04A	SED-2	06/21/2006 09:50 06/23/2006	The state of the s	Soil	PMoist) v
And the second Community of Second Sec			And a second	-	SW6010B_S	TAL	
		THE REAL PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROPER	The second section of the sect	The state of the s	SW7471A	TAL	A
E0868-05A	SW-3	06/21/2006 10:20 06/23/2006		Aqueous	W6010B_W	TAL	> >
THE RESIDENCE THE PARTY OF THE			dd it am period (1 111 o'n dalan broppe (1 dan broppe (1 dan broppe) (1 dalam broppe) (1 dalam broppe) (1 dan broppe)	7	SW7470A	TAL	
E0868-06A	SED-3	06/21/2006 10:20 06/23/2006	A. Carrier	Soil P	PMoist		
Addressed days of Alexander of States and Alexander of States of S			WOO AND	\$	SW6010B_S	TAL	2
Client Rep: Agnes R Ng	Agnes R Ng						

Page 1 of 3

WorkOrder: E0868	Report Level: ASP-B EDD: CLF HC Due: 07/14/06 Fax Due:
27/Jun/06 08:51	Case: SDG: PO: 152033/152108
Mitkem Corporation	Client ID: EARTH_NJ Project: Multi Site Location: DZUS/LIBERTY Comments: N/A

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	06/23/2006	Soil	SW7471A	TAL	A
E0868-07A	SW-4	06/21/2006 11:00 06/23/2006	06/23/2006	Aqueous	SW6010B_W	TAL	
VOL 1 HAVE BEEN AND THE STATE OF THE STATE O		ARREST CONTRACTOR OF THE PROPERTY OF THE PROPE	TO COMMENT OF THE PARTY OF THE	Address of the second of the s	SW7470A	TAL	
E0868-08A	SED-4	06/21/2006 11:00 06/23/2006	06/23/2006	Soil	PMoist		
Volume and the first and the state of the st			THE SAME AND THE S	VV COLUMN	SW6010B_S	TAL	
the same (Advances as a suitable of the same of the sa			makey militaria de meny halle menerata di majakakan mejakakan menerata		SW7471A	TAL	
E0868-09A	SW-5	06/21/2006 11:50 06/23/2006	06/23/2006	Aqueous	SW6010B_W	TAL) Ne
The second of the second secon			THE I ARE SERVICE THE THE PARTY OF THE PARTY	100 A C C C C C C C C C C C C C C C C C C	SW7470A	TAL	
E0868-10A	SED-5	06/21/2006 11:50 06/23/2006		Soil	PMoist		
The second Variation of the second se		***************************************	The second secon	THE CO. C. S.	SW6010B_S	TAL	
The state of the s			POTAL INTERNAL PROBLEM AND PROPERTY OF THE PRO	And the second s	SW7471A	TAL	
E0868-11A	SW-6	06/21/2006 13:10 06/23/2006		Aqueous	W6010B_W	TAL	>
At any framed your little and the angle angle and the angle angle angle and the angle angle angle angle and the angle angle angl			WAAA maamaga aa maamaga ga baara ga qaagaa aa a	3	SW7470A	TAL	-
					COMM - THE REAL PROPERTY AND ADDRESS OF THE PROPERTY A	TOTAL MENTAL PROPERTY AND ADMINISTRATION OF THE PROPERTY OF TH	

Client Rep: Agnes R Ng

	WorkOruer: Eus
27/Jun/06 08:51	TC 00 00 mm o 1
Mitkem Corporation	

8980 **EDD:** CLF **HC Due:** 07/14/06 Report Level: ASP-B Fax Due: **SDG: PO:** 152033/152108 Case: Location: DZUS/LIBERTY Client ID: EARTH NJ Project: Multi Site Comments: N/A

•							
Sample ID	Sample ID Client Sample ID	Collection Date Date Recv'd Matrix Test Code	Date Recv'd	Matrix	Test Code	Lah Tast Commants	U.I. MG GRI G.
E0868-12A	SEDA						noid MS SEL Storage
***************************************		06/21/2006 13:10 06/23/2006		Soil	PMoist		A6
The state of the s			em (ejő kide men megyőző, de miniszi mennen (éjő kide mennen nyező járós szillések		SW6010B_S	TAL	□
			AMBRETTI PROCESSOR STATE OF THE	American constitution and property and an analysis of the second	SW7471A	TAL	
E0868-13A	E0868-13A DUP (SW-3)	06/21/2006 10:20 06/23/2006 Aqueous SW6010B_W	06/23/2006	Aqueous	SW6010B_W	TAL	MS MS
The second state of the se	dem engle i si sindam ringkaman nosi i sisa hamman amandam nosi aman nyasan si sindam mingkam ningkam ningkam n		O Chimmer P. ARRA MIRON B. MINING POPPER A		SW7470A	TAL	M5
E0868-14A LMW-18	LMW-18	06/22/2006 12:40 06/23/2006 Agueous	06/23/2006	Adneons	SW6010B W		
to de commençar e estado y semante de commençar semante que en estado en estado en estado en estado en estado e		Milliand Average and the second secon	AMERICA SERVICE SERVICE (A LA MARTE SE AL CALLABORISTA DE LA MARTINICA DE LA M		SWAAADA	IAL	
	On any opposition of the analysis of the analy	No	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF T	***************************************	5W/4/UA	TAL	M5
E0868-15A LMW-19	LMW-19	06/22/2006 13:40 06/23/2006		Aqueous	SW6010B_W	TAL	
and it is deferred by the manager is the first angular account on			PRANSA DA RAMAN MARIANTA PARA PARA PARA PARA PARA PARA PARA PA	SN da de management de la competitation de la	SW7470A	TAL	MS W
					BOOM AND ADDRESS OF THE PARTY O		

Sample Transmittal Documentation



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

ADDRESS 300 BROADACRES DR CITY/ST/ZIP BLOOMFTELD NJ CLIENT PROJECT NAME:	08088777	The state of the s	FIGURE
ROADACRES MATEUD A	FAX 773 358 for	NAME	EAX
からから イ		ADDRESS	
1 1 mm 1	50020	CITY/ST/ZIP	
1 N	CLIENT PROJECT #: CLIENT P.O.#:	REQUESTED ANALYSES	ANALYSES
DATE/TIME SAMPLED	GRAB SOIL OTHER LAB D	SK WE BE	COMMENTS
SW-1 6/24/04/09/05	X		
		× >	
2		< >	
565-7 0950		\(\frac{1}{2}\)	
	(X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
M -	් ප් 	Х	
0011/	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×	
000	8	×	
5-0	8 X	×	
Sw-6 /1310	٥	×	
SED-6 1/13/0	= c	×.	
	DATE/TIME ACCEPTED BY		
Fernisher World	3	DATE/TIME ADDITIONAL REMARKS:	REMARKS: COOLER TEMP:
		CON CONTRACTOR	



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

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

PHONE 973-35868 COMPANY
2801856511
7/2/2
CLIENT
OTHER
2
NA.
TA CO
Cart
WHITE: LABORATORY COPY

MITKEM CORPORATION

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

CHAIN-OF-CUSTODY RECORD

	REPORT TO			OL HOIOANI		
Ž	EARTH TECH	PHONE 973 538 660 COMPANY		NAME	PHONE	LAB PROJECT #:
からら	KARETH	FAX 973 338/1052 NAME			FAX	F0868
ADDRESS SOC	KRES.	DREWE	ADDRESS			TURNAROUND TIME:
CLIVISIVAL BLOOMFIELS	25	03	CITY/ST/ZIP			1
MULTE SETE LEBERT	ME: SLTE 'V' CLIENT PROJECT#: SGR. 'Y	T#: CLIENT RO.#:			REQUESTED ANALYSES	
SAMPLE IDENTIFICATION	DATE/TIME SAMPLED COMPOSITE GRAB GRAB	SOIL LAB	DE CONTAÎNERS	Cratic		COMMENTS
181-01W7	6/22/11/240 X	77				
			<			
TCE# DEI BJOH						
Hen &	PLOSE DATE/TIME	ACCEPTED BY	TED BY	DATE/TIME ADDITI	ADDITIONAL REMARKS:	COOLER TEMP:
				/		
	WHITE: I ABORATORY CORV	TODO CODY		AND THE RESIDENCE AND THE PROPERTY OF THE PROP	erick manufacture and the second seco	

WHITE: LABORATORY COPY

YELLOW: REPORT COPY

PINK: CLIENT'S COPY

MITKEM CORPORATION

Sample Condition Form

Page ___ of __

I I Ob Comple ID I I I I OO I I	Received By: DKD	Reviewed B	у:	MIN		Date:	6/23/0	₅ МІТ	KEM Wor	korder #: (30.868
Lab Sample ID Preservation (pH) VOA Matrix VOA Matri	Client Project: Wolh Si	ile				Client:	Ear	th T	ech		1
1) Cooler Sealed Yes / No 2) Custody Seal(s) Present / Absent Coolers / Bottles (utact / Broken) 3) Custody Seal Number(s) N / 4 Coc 4 2 10 Coc 4 2 10 Coc 4 2 4) Chain-of-Custody Present / Absent 12 Coc 14 Coc 4 2 10 Coc 4 2 10 Coc 4 2 Coc 5 Coc 6 2 Coc 7 Coc 7 Coc 7 Coc 8 Coc 8 Coc 9 Coc				l ah Sam	inle ID	HNO	Prese	rvation	(pH)		or Air Bub
2) Custody Seal(s) Present / Absent Cocilers / Bottles (usact / Broken) Cocilers / Bottles (usact / Broken) Cocilers / Bottles Cocilers / B	1) Cooler Sealed (Yes)	No					H ₂ 3C	/4 HC	NaOI	H Matrix	≥ 1/4"
2) Custody Seal(s) Present / Absent Coolers / Bottles Intact / Broken CC		110	1	<u> </u>		142					
Coolers / Bottles Infact / Broken Cooler / Broken Cooler Temperature Cooler Cooler Condition Cooler Cooler Condition Cooler Cooler Condition Cooler Coo	2) Custody Spal(e)	Second Alaman	-								
Machine Society Soci	2) Odstody Geal(s)		-	***		K2_					
3) Custody Seal Number(s) N/4 O7 42 O8 OG 42 4) Chain-of-Custody Present/ Absent (2 Coolant Condition Ce FORGS (3) Airbill(s) Airbill Number(s) Present / Absent FORGS (4) Ca (5) Cooler Temperature Coolant Condition Ce FORGS (5) 42 Coolant Condition Ce FORGS (5) 42 Coolant Condition Ce FORGS (5) 42 Coolant Condition Ce FORGS (6) 42 Coolant Condition Ce FORGS (7) Sample Bottles (8) Date Received (9) Date Received (1) Time Received (2) Coolant Coo		and the same of th	-		 	1, -					
3) Custody Seal Number(s) N/4 O7 27 O8 O4 O7 42 O8 O7 42 O		Wilact / Broken				42					
4) Chain-of-Custody Present / Absent (2 (3) 27 (4) Cooler Temperature Coolant Condition (C) (4) 22 (G) (2) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G) (3) Custody Soal Number(a)	N / //	-								
4) Chain-of-Custody Present / Absent 10 11 22 15) Cooler Temperature Coolant Condition CC 164 27 165 27 28 28 30 30 Airbill(s) Airbill Number(s) Present / Absent Policy Stample Bottles Intact/Broken/Leaking Diplate Received Coolant Condition CC COOLANT Cooler Temperature COOLANT Coola	o) Custody Sear Number(s)	14/14	╁			22					
4) Chain-of-Custody Present / Absent 10											
4) Chain-of-Custody Present / Absent (1)			-	receipt .	09	7.5					
A) Chain-of-Custody Present / Absent (2 (3) (2) (4) (5) (5) (6) (7) (8) (8) (9) (9) (10)			 		10						
5) Cooler Temperature Coolant Condition CC FOCKS 15 42 S) Airbill(s) Present / Absent Airbill Number(s) FOCKS 15 42 STAR BOOKS BLO S) Sample Bottles Intact/Broken/Leaking Date Received O Time Received Sign Books Blo Sign Books	1) Chain of Qual-					<5					
Coolant Condition Ce FOECS 15 42 Sharbill(s) Present / Absent Airbill Number(s) Present / Absent Airbill Number(s) Present / Absent Present / Absent	4) Chain-of-Custody	Present / Absent	<u> </u>								
Coolant Condition Ce FOCKS 15 42 3) Airbill(s) Airbill Number(s) Coolant Condition Ce FOCKS 15 42 Coolant Condition Ce FOCKS 15 42 Coolant Condition Ce FOCKS 15 42 Coolant Condition Coolant Condition Ce FOCKS 15 42 Coolant Condition Coolant Co	E) Coolor Towns and	100				1					
Airbill Number(s) Present / Absent Airbill Number(s) Present / Absent Airbill Number(s) Present / Absent Present /			 								
Airbill Number(s) Role Stor 80008860 That Broken/Leaking Date Received Stor 80008860 That Broken/Leaking VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore	Coolant Condition	100	H.)'d68	15	42					
Airbill Number(s) Role Stor 80068860 Preservative Name/Lot No: Role Stor 80068860 VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore	G) Airbill(-)				gerrande og personiser som en forrækenske	The state of the s					o de alla destructura de processo de companyo e e e e e e e e e e e e e e e e e e e
Sample Bottles Intact/Broken/Leaking Date Received Signature Name/Lot No: VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCI M= MeOH E = Encore	, ,										
// Sample Bottles Intact/Broken/Leaking Date Received O Date Received VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCI M= MeOH E = Encore	Airbili Number(s)										
y Sample Bottles Intact/Broken/Leaking Date Received Signature VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore		83618068866									
VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore											
y Date Received O Date Received C C C								<u> </u>			
Date Received Since Since											
) Date Received (Compared to the content of the co) Sample Bottles	Intact/Broken/Leaking						2			
VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore		. / 1						<u> </u>			
VOA Matrix Key: US = Unpreserved Soil) Date Received	6/23/06					/				
reservative Name/Lot No: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore						\mathcal{A}					
reservative Name/Lot No: US = Unpreserved Soil A = Air UA = Unpreserved Aqu. H = HCl M= MeOH E = Encore) Time Received	5:15						VOA	Matrix Ke	ey:	
reservative Name/Lot No: UA = Unpreserved Aqu. H = HCI M= MeOH E = Encore		1						1		-	A = Air
M= MeOH E = Encore	reservative Name/Lot No:							į .			
								ĺ		•	
			_/								
				and the state of t		***************************************	'	······································	······································		
		tion Notification/Correctiv	, o At	AUDIT FULL	ıı yes	s / no		Rad OI	K ves/n	•	

MITKEM CORPORATION

* Metals *

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab	Name:	Mitkem Corpora	ation	Contr	act: <u>152033</u>	/1521		
Lab	Code:	MITKEM	Case No.	SAS N	lo.:	SDG 1	Mo.: M	1E0868
SOW	No.:	SW846						
	ICP ba	EPA Sample DUP (SW-3) LMW-18 LMW-19 SED-1 SED-2 SED-2D SED-2S SED-3 SED-4 SED-5 SED-6 SW-1 SW-2 SW-3 SW-3D SW-3S SW-3D SW-3S SW-4 SW-5 SW-6 Interelement corrected ackground corrected a	rrections applied? ections applied? generated before		Lab Sample II E0868-13 E0868-14 E0868-02 E0868-04 E0868-04 E0868-04 E0868-06 E0868-08 E0868-10 E0868-12 E0868-01 E0868-01 E0868-05 E0868-05	Ye	es/No	YES YES
<i>C</i>		lacion of backy	round corrections?			Ύ€	es/No	NO
of the contraction of the contra	rtify to the condition of the condition	tract, both tections detailed and in the comput by the Laborating signature	package is in comp hnically and for c bove. Release of er-readable data s ory Manager or the	omplet the d ubmitt Manag	teness, for o data containe ted on disket ger's designe	ther t d in t te has e, as	than this has been verif	ardcopy data
этдпа	cure:	Konoline 7/13	1) come in	ame:	KHR	OLUN	1/4	BADURA
Date:		7(3)	O6 T	itle:				POWERS P. LE LINGUIS E SEE E HERMANISMONIA

COVER PAGE - IN

SW846

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-18

Lab Name: Mitkem Corporation

Contract: <u>152033/15</u>

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): $\underline{\text{UG/L}}$

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

Comme	ents:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

LMW-19

Lab Name: Mitkem Corporation

Contract: <u>152033/15</u>

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	С	Q	М
7429-90-5	Aluminum	53.4	В		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	1.6	U		P
7440-39-3	Barium	14.2	В		P
7440-41-7	Beryllium	0.15	U		P
7440-43-9	Cadmium	1.1	В		P
7440-70-2	Calcium	9900			P
7440-47-3	Chromium	1.0	В		P
7440-48-4	Cobalt	0.15	U		P
7440-50-8	Copper	6.3	U		P
7439-89-6	Iron	54.2	В		P
7439-92-1	Lead	0.46	U		P
7439-95-4	Magnesium	3180			P
7439-96-5	Manganese	3.5	В		P
7440-02-0	Nickel	0.59	U		P
7440-09-7	Potassium	816	В		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	В		P
7439-97-6	Mercury	0.065	U		CV
			<u></u>		L

Comme	ents: