.PC# 199 80 1 00 3 Madison County
Chemetco - Hartford
LD 048 843 809
SF/HRS
Volume 3

EPA Region 5 Records Ctr.
384348

Analytical Results

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Prepared by:
Office of Site Evaluation
Division of Remediation Management
Bureau of Land

ESAT Controlled Number: ESAT5.17.00085-pd 7/7/08

DATE: July 7, 2008

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

SITE NAME: Chemetco (IL)

Case	Lab	Samples	SDG	Matrix
37448	DataChem	4	ME00H2	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

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Controlled Document

ESAT5.15.00031
acA
7-1-08

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/16/08

SUBJECT: Review of Data
Received for review on 6/5/08

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Chemetco (IL)

CASE NUMBER: 37448 SDG NUMBER: ME00H2

Number and Type of Samples: 4 waters

Sample Numbers: ME00H2-H5

Laboratory: DataChem Hrs. for Review: 4
+ 1.5

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Four (4) water samples, numbered ME00H2-H5, were collected on May 13, 2008. The lab received the samples on May 16, 2008 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

All ICP-AES results and CRQLs are corrected for the MW1 microwave preparation factor.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Chromium
ME00H2, ME00H3, ME00H4, ME00H5

Lead
ME00H2, ME00H3, ME00H5

Manganese
ME00H4, ME00H5

Selenium
ME00H2, ME00H3, ME00H4, ME00H5

Zinc
ME00H2, ME00H4, ME00H5

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic
ME00H4, ME00H5

Silver
ME00H2, ME00H3

No samples were identified as field blanks.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

No defects were found for the serial dilution or ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).
Results are qualified "J".

Aluminum
ME00H2, ME00H3, ME00H4, ME00H5

Arsenic
ME00H4, ME00H5

Barium
ME00H2, ME00H4, ME00H5

Cadmium
ME00H2, ME00H4, ME00H5

Copper
ME00H3, ME00H4, ME00H5

Nickel
ME00H2, ME00H3, ME00H4, ME00H5

Potassium
ME00H2, ME00H3, ME00H4, ME00H5

Silver
ME00H2, ME00H3

Vanadium
ME00H4, ME00H5

All data, except those qualified above, are acceptable.

Reviewed by: Stephen Connet
Date: June 16, 2008

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 37448 SDG : ME00H2
Site : CHEMETCO
Lab. : DATAC
Reviewer : S. CONNET
Date : 06/16/2008

Number of Soil Samples : 0
Number of Water Samples : 4

Sample Number :	ME00H2		ME00H3		ME00H4		ME00H5			
Sampling Location :	G101		G102		G103		G104			
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	5/13/2008		5/13/2008		5/13/2008		5/13/2008			
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0			
Dilution Factor :	1.0		1.0		1.0		1.0			
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	222	U	29.4	J	222	U	30.5	J		
ANTIMONY	66.7	U	66.7	U	66.7	U	66.7	U		
ARSENIC	11.1	U	11.1	U	8.1	J-	7.8	J-		
BARIUM	185	J	543		115	J	115	J		
BERYLLIUM	5.6	U	5.6	U	5.6	U	5.6	U		
CADMIUM	0.16	J	5.6	U	0.16	J	0.14	J		
CALCIUM	120000		130000		50900		50700			
CHROMIUM	11.1	U	11.1	U	11.1	U	11.1	U		
COBALT	55.6	U	55.6	U	55.6	U	55.6	U		
COPPER	27.8	U	6.2	J	14.4	J	14.7	J		
IRON	1560		3600		144		152			
LEAD	11.1	U	11.1	U	11.1	U	11.1	U		
MAGNESIUM	29100		31600		10300		10300			
MANGANESE	150		400		16.7	U	16.7	U		
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U		
NICKEL	1.4	J	1.4	J	0.99	J	1.1	J		
POTASSIUM	4560	J	5020	J	2300	J	2280	J		
SELENIUM	38.9	U	38.9	U	38.9	U	38.9	U		
SILVER	2.1	J-	2.2	J-	11.1	U	11.1	U		
SODIUM	59000		23500		6510		6370			
THALLIUM	27.8	U	27.8	U	27.8	U	27.8	U		
VANADIUM	55.6	U	55.6	U	1.0	J	1.4	J		
ZINC	66.7	U	190		66.7	U	66.7	U		
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U		

COPY

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Rec

W 8141031

Case No: 37448
DAS No:
SDG No: ME00H2

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892213031673
Shipped to:	DataChem Laboratories Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By (Date / Time)	Received By (Date / Time)
1 [signature] 5/15 0900	B Courtey 5/16/08 1025
2	
3	
4	

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW06054
Unit Price: n/a
Transfer To: [signature] 5/16/08
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G3	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-263875 (HNO3), 5-263878 (NaOH) (2)	G201	S: 5/14/2008	10:10	E00G3	
ME00G4	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-263883 (HNO3), 5-263884 (NaOH) (2)	G202	S: 5/14/2008	10:10	E00G4	
ME00G5	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304051 (HNO3), 5-304052 (HNO3) (2)	G204	S: 5/14/2008	13:30	E00G5	
ME00G6	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304057 (HNO3), 5-304058 (NaOH) (2)	G203	S: 5/14/2008	11:15	E00G6	
ME00G7	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304063 (HNO3), 5-304064 (NaOH) (2)	G201F	S: 5/14/2008	10:10		
ME00G9	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304065 (HNO3), 5-304066 (NaOH) (2)	G202F	S: 5/14/2008	10:10		
ME00H0	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304067 (HNO3), 5-304068 (NaOH) (2)	G203F	S: 5/14/2008	11:15		
ME00H1	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304069 (HNO3), 5-304070 (NaOH) (2)	G204F	S: 5/14/2008	13:30		
ME00H2	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304078 (HNO3), 5-304079 (NaOH) (2)	G101	S: 5/13/2008	9:55	E00H2	
ME00H3	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303532 (HNO3), 5-303533 (HNO3), 5-303534 (HNO3), 5-303535 (NaOH), 5-303536 (NaOH), 5-303537 (NaOH) (6)	G102	S: 5/13/2008	11:05	E00H3	

[signature] 5/16/08

Shipment for Case Complete? N yes	Sample(s) to be used for laboratory QC: ME00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.5	Chain of Custody Seal Number: 89337 89338
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? y / Shipment Iced? y

CN = Cyanide, ICP/MS, Hg = CLP ICP Metals, Hg

TR Number: 5-162075208-051408-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 37448
DAS No.
SDG No: ME00H2

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892210083678
Shipped to:	DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	5/15 0900	B. Cowley	5/16/08 1025
2			
3			
4			

For Lab Use Only

Lab Contract No: EPW06054
Unit Price: n/a
Transfer To:
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00H4	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303538 (HNO3), 5-303539 (NaOH) (2)	G103	S: 5/13/2008	12:25	E00H4	
ME00H5	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303547 (HNO3), 5-303548 (NaOH) (2)	G104	S: 5/13/2008	12:25	E00H5	
ME00H6	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304106 (Ice Only), 5-304107 (NaOH) (2)	G205	S: 5/14/2008	18:00	E00H6	
ME00H7	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304112 (Ice Only), 5-304113 (NaOH) (2)	G205f	S: 5/14/2008	18:00		

Shipment for Case Complete? Y/N: yes	Sample(s) to be used for laboratory QC: ME00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.5	Chain of Custody Seal Number: 89337 89338
Analysis Key: CN = Cyanide, ICP/MS, Hg = CLP ICP Metals, Hg	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-162075208-051408-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

DATA CHEM LABORATORIES, INC.

SDG NARRATIVE

Case #: 37448
SDG#: ME00H2
Contract #: EP-W-06-054
DCL Set ID#: 8141031
June 4, 2008

General Information

The four samples in this SDG were analyzed by methodologies contained in ILM05.4. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

The samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the water LCS met method acceptance criteria.

Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125%.

Matrix Duplicate Analysis

All matrix duplicate results met method criteria.

Serial Dilution

ICP-AES Serial Dilution results met method acceptance criteria.

Miscellaneous Comments

All calibration data is linear, please see raw data.
Cooler Temp was at 4 °C.

Example Equations

Method MW1: $C \times \frac{Vf}{Vi} \times DF = Concentration(\mu g/L)$

Method CW1: $C \times DF = Concentration(\mu g/L)$

960 West LeVoy Drive • Salt Lake City, Utah 84123-2502 • (800) 356-9135 • (801) 266-7700 • Fax (801) 268-9992
www.datachem.com

Method DW2: $C \times DF = Concentration(\mu g/L)$

Where,
C = Instrument value in µg/L (The average of all replicate integrations).
Vf = Final digestion volume (mL)
Vi = Initial digestion volume (mL)
DF = Dilution Factor

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COVER PAGE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00H2	8141031001
ME00H3	8141031002
ME00H3D	8141031004
ME00H3S	8141031003
ME00H4	8141031005
ME00H5	8141031006

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No)	YES	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	NO
If yes - were raw data generated before application of background corrections?	(Yes/No)	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 (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Neil Edwards

Date: 06/04/2008 Title: Chemist

USEPA - CLP

3-IN
BLANKS

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum	200.000	U	200.000	U	200.000	U	200.000	U	222.222	U	P
Antimony	60.000	U	60.000	U	60.000	U	60.000	U	66.667	U	P
Arsenic	10.000	U	10.000	U	10.000	U	10.000	U	-5.267	J	P
Barium	200.000	U	200.000	U	200.000	U	200.000	U	222.222	U	P
Beryllium	5.000	U	5.000	U	5.000	U	5.000	U	5.556	U	P
Cadmium	5.000	U	5.000	U	5.000	U	5.000	U	5.556	U	P
Calcium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	29.492	J	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	0.477	J	P
Cobalt	50.000	U	50.000	U	50.000	U	50.000	U	55.556	U	P
Copper	25.000	U	25.000	U	25.000	U	25.000	U	27.778	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	10.981	J	P
Lead	2.569	J	10.000	U	1.294	J	2.748	J	2.493	J	P
Magnesium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5555.556	U	P
Manganese	0.315	J	0.363	J	15.000	U	0.379	J	16.667	U	P
Mercury	0.200	U	0.200	U	0.200	U			0.200	U	CV
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	44.444	U	P
Potassium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	5555.556	U	P
Selenium	35.000	U	35.000	U	35.000	U	35.000	U	2.505	J	P
Silver	-3.249	J	-3.139	J	-2.088	J	-3.916	J	-3.928	J	P
Sodium	5000.000	U	5000.000	U	5000.000	U	5000.000	U	13.615	J	P
Thallium	1.045	J	1.066	J	25.000	U	25.000	U	27.778	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	55.556	U	P
Zinc	60.000	U	60.000	U	60.000	U	60.000	U	2.551	J	P
Cyanide	-1.782	J	10.000	U	10.000	U			10.000	U	AS

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4A-IN
ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000		253000	104			248000	102		
Antimony	0.0		-2.9				-3.7			
Arsenic	0.0		-4.4				-5.9			
Barium	2.0		2.3	115			2.1	105		
Beryllium	0.0		0.48				0.52			
Cadmium	0.0		1.8				2.0			
Calcium	235000		244000	104			232000	99		
Chromium	32.0		49.4	154			49.3	154		
Cobalt	4.0		2.8	70			3.2	80		
Copper	23.0		25.4	110			25.3	110		
Iron	95600		97200	102			93400	98		
Lead	10.0		18.5	185			21.7	217		
Magnesium	248000		262000	106			248000	100		
Manganese	19.0		19.9	105			19.8	104		
Nickel	21.0		25.2	120			24.7	118		
Potassium	0.0		5.6				8.5			
Selenium	0.0		0.91				3.5			
Silver										
Sodium	0.0		825.				796.			
Thallium	0.0		6.2				5.9			
Vanadium	0.0		-11.6				-12.6			
Zinc	28.0		34.4	123			32.5	116		

USEPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

ICP-AES Instrument ID: ICP07 ICS Source: EPA(1206)

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	244000		257000	105			250000	102		
Antimony										
Arsenic										
Barium										
Beryllium										
Cadmium										
Calcium	235000		242000	103			238000	101		
Chromium										
Cobalt										
Copper										
Iron	95600		97500	102			95700	100		
Lead										
Magnesium	248000		263000	106			257000	104		
Manganese										
Nickel										
Potassium										
Selenium										
Silver	0.0		9.0				10.7			
Sodium										
Thallium										
Vanadium										
Zinc										

USEPA - CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA Sample No.

ME00H3S

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2048.3703		29.4186	J	2000.00	101		P
Antimony	75-125	112.9408		66.6667	U	100.00	113		P
Arsenic	75-125	44.4652		11.1111	U	40.00	111		P
Barium	75-125	2689.8519		542.7852		2000.00	107		P
Beryllium	75-125	50.2914		5.5556	U	50.00	101		P
Cadmium	75-125	54.0011		5.5556	U	50.00	108		P
Calcium									NR
Chromium	75-125	227.5778		0.8108	J	200.00	113		P
Cobalt	75-125	538.2000		55.5556	U	500.00	108		P
Copper	75-125	266.2926		6.2102	J	250.00	104		P
Iron	75-125	4609.0741		3604.9259		1000.00	100		P
Lead	75-125	22.4341		2.8592	J	20.00	98		P
Magnesium									NR
Manganese	75-125	909.2852		400.1074		500.00	102		P
Mercury	75-125	1.0090		0.2000	U	1.00	101		CV
Nickel	75-125	529.4667		1.4298	J	500.00	106		P
Potassium									NR
Selenium	75-125	61.3611		4.7118	J	50.00	113		P
Silver	75-125	49.5537		2.1917	J	50.00	95		P
Sodium									NR
Thallium	75-125	53.3556		27.7778	U	50.00	107		P
Vanadium	75-125	507.1408		55.5556	U	500.00	101		P
Zinc	75-125	715.3481		190.3444		500.00	105		P
Cyanide	75-125	82.5530		10.0000	U	100.00	83		AS

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA Sample No.

ME00H3D

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		29.4186	J	222.2222	U	200		P
Antimony		66.6667	U	66.6667	U			P
Arsenic		11.1111	U	11.1111	U			P
Barium	222.222	542.7852		534.3519		2		P
Beryllium		5.5556	U	5.5556	U			P
Cadmium		5.5556	U	5.5556	U			P
Calcium		130437.0370		128440.7408		2		P
Chromium		0.8108	J	0.4920	J	49		P
Cobalt		55.5556	U	55.5556	U			P
Copper		6.2102	J	6.5402	J	5		P
Iron		3604.9259		3547.8519		2		P
Lead		2.8592	J	11.1111	U	200		P
Magnesium		31553.7037		31008.8889		2		P
Manganese		400.1074		395.9259		1		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		1.4298	J	1.8763	J	27		P
Potassium		5019.0741	J	4999.5556	J	0		P
Selenium		4.7118	J	38.8889	U	200		P
Silver		2.1917	J	2.7650	J	23		P
Sodium	5555.556	23514.8148		23112.5926		2		P
Thallium		27.7778	U	27.7778	U			P
Vanadium		55.5556	U	55.5556	U			P
Zinc	66.667	190.3444		189.8259		0		P
Cyanide		10.0000	U	10.0000	U			AS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument Type: CV Instrument ID: AACV01 Date: 01/10/2008

Preparation Method: CW1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury	253.70	0.2	0.016
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide			

Comments:

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument Type: P Instrument ID: ICP07 Date: 01/12/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	200	20.0
Antimony	206.83	60	1.8
Arsenic	189.04	10	1.5
Barium	455.40	200	0.33
Beryllium	313.11	5.0	0.089
Cadmium	214.44	5.0	0.084
Calcium	317.93	5000	5.9
Chromium	205.55	10	0.73
Cobalt	228.62	50	0.32
Copper	324.75	25	2.6
Iron	259.94	100	9.0
Lead	220.35	10	0.94
Magnesium	279.08	5000	26.7
Manganese	257.61	15	0.26
Mercury			
Nickel	231.60	40	1.7
Potassium	766.49	5000	80.4
Selenium	196.09	35	2.6
Silver	328.07	10	0.28
Sodium	589.59	5000	41.6
Thallium	190.86	25	0.77
Vanadium	292.40	50	0.40
Zinc	206.20	60	2.7
Cyanide			

Comments:

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument Type: P Instrument ID: ICP07 Date: 01/09/2008

Preparation Method: MW1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum	308.22	200	25.7
Antimony	206.83	60	1.8
Arsenic	189.04	10	1.5
Barium	455.40	200	0.34
Beryllium	313.11	5.0	0.14
Cadmium	214.44	5.0	0.12
Calcium	317.93	5000	23.3
Chromium	205.55	10	0.37
Cobalt	228.62	50	0.44
Copper	324.75	25	2.9
Iron	259.94	100	3.3
Lead	220.35	10	1.2
Magnesium	279.08	5000	23.7
Manganese	257.61	15	0.57
Mercury			
Nickel	231.60	40	0.89
Potassium	766.49	5000	40.8
Selenium	196.09	35	2.4
Silver	328.07	10	0.48
Sodium	589.59	5000	13.0
Thallium	190.86	25	0.81
Vanadium	292.40	50	0.81
Zinc	206.20	60	2.3
Cyanide			

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument Type: AS Instrument ID: WET01 Date: 01/10/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	10	1.6

Comments:

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument Type: AS Instrument ID: WET01 Date: 01/09/2008

Preparation Method: DW2

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	10	3.9

Comments:

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument ID: ICP07 Analysis Method: P

Start Date: 05/30/2008 End Date: 05/30/2008

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1609	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
S1500	1.0	1614			X		X	X						X						X			X					
S10000	1.0	1619		X		X				X	X	X				X		X						X	X			
S50000	1.0	1623	X						X				X		X				X			X						
ICV	1.0	1628	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ICE	1.0	1633	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CRII	1.0	1638	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ICSAI	1.0	1643	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ICSABI	1.0	1648	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCV	1.0	1653	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCB	1.0	1658	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
PBW	1.0	1703	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
LCSW	1.0	1708	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H2	1.0	1712	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H3	1.0	1717	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H3S	1.0	1722	X	X	X	X	X	X		X	X	X	X	X		X		X		X			X	X	X			
ME00H3D	1.0	1727	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H3L	5.0	1732	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H4	1.0	1737	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ME00H5	1.0	1742	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCV2	1.0	1747	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCB2	1.0	1752	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CRIF	1.0	1757	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ICSAF	1.0	1802	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
ICSABF	1.0	1807	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCV3	1.0	1813	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			
CCB3	1.0	1818	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X			

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13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument ID: ICP07 Analysis Method: P

Start Date: 06/02/2008 End Date: 06/02/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	0933																			X							
S1500	1.0	0938																			X							
S10000	1.0	0943																										
S50000	1.0	0948																										
ICV2	1.0	0953																			X							
ICB2	1.0	0957																			X							
CRII2	1.0	1002																			X							
ICSAI2	1.0	1007	X						X				X		X						X							
ICSABI2	1.0	1012	X						X				X		X						X							
CCV4	1.0	1017																			X							
CCB4	1.0	1022																			X							
PBW	1.0	1027																			X							
LCSW	1.0	1032																			X							
ME00H2	1.0	1036																			X							
ME00H3	1.0	1041																			X							
ME00H3S	1.0	1046																			X							
ME00H3D	1.0	1051																			X							
ME00H3I	5.0	1056																			X							
ME00H4	1.0	1101																			X							
ME00H5	1.0	1106																			X							
CCV5	1.0	1111																			X							
CCB5	1.0	1115																			X							
CRIF2	1.0	1120																			X							
ICSAF2	1.0	1125	X						X				X		X						X							
ICSABF2	1.0	1130	X						X				X		X						X							
CCV6	1.0	1135																			X							
CCB6	1.0	1140																			X							

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument ID: AACV01 Analysis Method: CV

Start Date: 06/04/2008 End Date: 06/04/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1036															X											
S0.2	1.0	1037															X											
S0.5	1.0	1039															X											
S1.0	1.0	1040															X											
S5.0	1.0	1042															X											
S10	1.0	1043															X											
ICV	1.0	1045															X											
ICB	1.0	1046															X											
CRII	1.0	1048															X											
CCV	1.0	1049															X											
CCB	1.0	1051															X											
PBW	1.0	1052															X											
ME00H2	1.0	1053															X											
ME00H3	1.0	1055															X											
ME00H3S	1.0	1056															X											
ME00H3D	1.0	1058															X											
ME00H4	1.0	1059															X											
ME00H5	1.0	1101															X											
CRIF	1.0	1102															X											
CCV2	1.0	1104															X											
CCB2	1.0	1105															X											

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13-IN
ANALYSIS RUN LOG

Lab Name: DATACHEM LABORATORIES Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00H2

Instrument ID: WET01 Analysis Method: AS

Start Date: 05/21/2008 End Date: 05/21/2008

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1613																								X		
S1C	1.0	1616																								X		
S5C	1.0	1616																								X		
S1C0	1.0	1617																								X		
S2C0	1.0	1617																								X		
S3C0	1.0	1620																								X		
S4C0	1.0	1620																								X		
ICV	1.0	1621																								X		
ICB	1.0	1621																								X		
CRII	1.0	1624																								X		
CCV1	1.0	1624																								X		
CCB1	1.0	1625																								X		
MIDRANGE	1.0	1625																								X		
PBW	1.0	1628																								X		
ME00H2	1.0	1628																								X		
ME00H3	1.0	1629																								X		
ME00H3D	1.0	1630																								X		
ME00H3S	1.0	1632																								X		
ME00H4	1.0	1633																								X		
ME00H5	1.0	1634																								X		
CRIF	1.0	1634																								X		
CCV2	1.0	1637																								X		
CCB2	1.0	1637																								X		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME00H2 CERCLIS No: ILD048843809

Case No: 37448 Site Name/Location: Chemetco (IL)

Contractor or EPA Lab: DataChem Data User: IEPA

No. of Samples: 4 Date Sampled or Date Received: 5 June 08

Have Chain-of-Custody records been received? Yes ✓ No ____

Have traffic reports or packing lists been received? Yes ✓ No ____

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____

If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____

____ ____ ____ ____

Are basic data forms in? Yes ✓ No ____

No of samples claimed: 4 No. of samples received: ____

Received by: pdavis Date: 5 June 08

Received by LSSS: pdavis Date: 8 June 08

Review started: 6-11-08 Reviewer Signature: [signature]

Total time spent on review: 4 + 1.5 Date review completed: 6-16-08

Copied by: A. C. Harvey Date: July 1, 2008

Mailed to user by: Cheryl Moeller Date: 7/2/08

DATA USER:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

ESAT Controlled Number: ESAT5.17.00110-pd 15July08

DATE: July 15, 2008

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RECEIVED
JUL 16 2008
IEPA-BOL-FSRS

SITE NAME: Chemetco (IL)

Case	Lab	Samples	SDG	Matrix
37448	DataChem	10	ME00G3	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

Controlled Document

ESAT5.15.00039
ack 7-14-08

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/11/08

SUBJECT: Review of Data
Received for review on 6/5/08

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data by CADRE for the following case:

SITE NAME: Chemetco (IL)

CASE NUMBER: 37448 SDG NUMBER: ME00G3

Number and Type of Samples: 10 waters

Sample Numbers: ME00G3-G7, G9, H0, H1, H6, H7

Laboratory: DataChem Hrs. for Review: 8 + 2.5

Following are our findings:

CC: Howard Pham
Region 5 TOPO
Mail Code: SRT-4J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Ten (10) water samples, numbered ME00G3-G7, G9, H0, H1, H6, H7, were collected on May 13-14, 2008. The lab received the samples on May 16, 2008 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ILM05.4 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS).

The case file included 2 copies of each of the DC-1 Forms and 2 copies of the Field Chain-of-Custody Records.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibration or the CRQL standard.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "U" and reported at the sample value.

Antimony
ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H7

Barium
ME00H6, ME00H7

Beryllium
ME00G3

Cadmium
ME00G3, ME00G4, ME00G5, ME00G7, ME00G9, ME00H1, ME00H6, ME00H7

Chromium
ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Cobalt
ME00H1, ME00H6, ME00H7

Copper
ME00G7, ME00G9, ME00H1, ME00H6, ME00H7

Lead
ME00G7, ME00G9, ME00H1, ME00H6, ME00H7

Manganese
ME00H6

Nickel
ME00H6, ME00H7

Selenium
ME00H7

Silver
ME00G3, ME00G4, ME00G5, ME00G6, ME00H0, ME00H6, ME00H7

Vanadium
ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Zinc
ME00G7, ME00G9, ME00H1, ME00H6, ME00H7

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.
Hits less than 5 times the blank are qualified "J-".

Selenium
ME00H6

No samples were identified as field blanks.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.
Hits are qualified "J" and non-detects are qualified "UJ".

Chromium
ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Cobalt
ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Copper

ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Lead

ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

Nickel

ME00G3, ME00G4, ME00G5, ME00G6, ME00G7, ME00G9, ME00H0, ME00H1, ME00H6, ME00H7

The following inorganic sample results are affected by an interference check "A" sample (ICSA) for which false positive concentration values greater than the MDL were obtained.

Hits less than 10 times the value of the ICSA are qualified "J+"; non-detects are not qualified. Hits greater than 10 times the ICSA are not qualified.

Cobalt

ME00G3, ME00G4, ME00G5, ME00G7, ME00G9

No defects were found for the tune or internal standards.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Arsenic

ME00H6, ME00H7

Selenium

ME00H6

All data, except those qualified above, are acceptable.

CADRE ILM05.4 Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Analytical Results (Qualified Data)

Case #: 37448 SDG : ME00G3
Site : CHEMETCO
Lab. : DATACHEM
Reviewer : S. CONNET
Date : 06/11/2008

Number of Soil Samples : 0
Number of Water Samples : 10

Sample Number :	ME00G3		ME00G4		ME00G5		ME00G6		ME00G7	
Sampling Location :	G201		G202		G204		G203		G201F	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008		5/14/2008		5/14/2008	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		10.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	2.7		2.9		22.5		108		2.1	
BARIUM	102		97.8		123		35.8		35.3	
BERYLLIUM	1.0	U	1.0	U	1.0	U	1.6		1.0	U
CADMIUM	1.0	U	1.0	U	1.0	U	53.5		1.0	U
CALCIUM										
CHROMIUM	2.2	J	2.1	J	2.0	UJ	2.0	UJ	2.0	UJ
COBALT	2.6	J+	2.6	J+	1.1	J+	111	J	1.1	J+
COPPER	8.0	J	7.8	J	11.1	J	36700	J	2.0	UJ
IRON										
LEAD	4.6	J	4.6	J	15.0	J	4.3	J	1.0	UJ
MANGANESE	458		413		796		7010		308	
MERCURY	0.20	U	0.20	U	0.20	U	0.89		0.20	U
NICKEL	13.9	J	13.6	J	4.4	J	23100	J	10.1	J
POTASSIUM										
SELENIUM	13.1		14.3		16.2		533		15.2	
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
ZINC	19.6		21.0		41.1		9160		7.6	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : ME00G3
Site : CHEMETCO
Lab. : DATACHEM
Reviewer : S. CONNET
Date : 06/11/2008

Sample Number :	ME00G9		ME00H0		ME00H1		ME00H6		ME00H7	
Sampling Location :	G202F		G203F		G204F		G205		G205F	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008		5/14/2008		5/14/2008	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
ARSENIC	2.4		109		9.0		0.21	J	0.18	J
BARIUM	35.4		10.9		78.4		10.0	U	10.0	U
BERYLLIUM	1.0	U	1.5		1.0	U	1.0	U	1.0	U
CADMIUM	1.0	U	53.6		1.0	U	1.0	U	1.0	U
CALCIUM										
CHROMIUM	2.0	UJ	2.0	UJ	2.0	UJ	2.0	UJ	2.0	UJ
COBALT	1.0	J+	112	J	1.0	UJ	1.0	UJ	1.0	UJ
COPPER	2.0	UJ	26100	J	2.0	UJ	2.0	UJ	2.0	UJ
IRON										
LEAD	1.0	UJ	1.1	J	1.0	UJ	1.0	UJ	1.0	UJ
MANGANESE	307		7020		243		1.0	U	61.5	
MERCURY	0.20	U	0.87		0.20	U	0.20	U	0.20	U
NICKEL	10.4	J	17200	J	2.6	J	1.0	UJ	1.0	UJ
POTASSIUM										
SELENIUM	15.6		540		16.3		0.43	J-	5.0	U
SILVER	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM										
THALLIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VANADIUM	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
ZINC	7.9	U	9130		3.7	U	2.2	U	2.0	U
CYANIDE	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

EPA USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

8141028

Case No: 37448
DAS No:
SDG No: ME00G3

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z621689221[illegible]
Shipped to:	DataChem Lab[illegible] Inc. 960 West LeVoy[illegible] Salt Lake City, UT 8[illegible] (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
[signature]	5/15 0900	S Courtey	5/16/08 1025
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW06054
Unit Price: n/a
Transfer To: [illegible] 5/16/08
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLE[illegible]	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G3	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-263875 (HNO3), 5-263878 (NaOH) (2)	G201	S: 5/14/2008	10:10	E00G3	
ME00G4	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-263883 (HNO3), 5-263884 (NaOH) (2)	G202	S: 5/14/2008	10:10	E00G4	
ME00G5	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304051 (HNO3), 5-304052 (HNO3) (2)	G204	S: 5/14/2008	13:30	E00G5	
ME00G6	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304057 (HNO3), 5-304058 (NaOH) (2)	G203	S: 5/14/2008	11:15	E00G6	
ME00G7	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304063 (HNO3), 5-304064 (NaOH) (2)	G201F	S: 5/14/2008	10:10		
ME00G9	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304065 (HNO3), 5-304066 (NaOH) (2)	G202F	S: 5/14/2008	10:10		
ME00H0	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304067 (HNO3), 5-304068 (NaOH) (2)	G203F	S: 5/14/2008	11:15		
ME00H1	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304069 (HNO3), 5-304070 (NaOH) (2)	G204F	S: 5/14/2008	13:30		
ME00H2	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304078 (HNO3), 5-304079 (NaOH) (2)	G101	S: 5/13/2008	9:55	E00H2	
ME00H3	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303532 (HNO3), 5-303533 (HNO3), 5-303534 (HNO3), 5-303535 (NaOH), 5-303536 (NaOH), 5-303537 (NaOH) (6)	G102	S: 5/13/2008	11:05	E00H3	

[illegible] 5/16/08

Shipment for Case Complete?	Samples[illegible] for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
yes	ME00[illegible]		4.5	89337 89338

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? y Shipment Iced? y

CN = Cyanide, ICP/MS, Hg = CLP ICP Metals, Hg

IR Number: 5-162075208-051408-0001

LABORATORY COPY

CPR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office: Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 37448
DAS No:
SDG No: ME00H3

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892210083678
Shipped to:	DataChem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/15 0700	B. Cairley	5/16/08 1025
2			
3			
4			

Sampler Signature: [signature]

For Lab Use Only

Lab Contract No: EPW06054
Unit Price: n/a
Transfer To: Ice 5/16/08
Lab Contract No:
Unit Price:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00H4	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303538 (HNO3), 5-303539 (NaOH) (2)	G103	S: 5/13/2008	12:25	E00H4	Ice 5/16/08
ME00H5	Potable Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-303547 (HNO3), 5-303548 (NaOH) (2)	G104	S: 5/13/2008	12:25	E00H5	
ME00H6	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304106 (Ice Only), 5-304107 (NaOH) (2)	G205	S: 5/14/2008	18:00	E00H6	
ME00H7	Monitor Well/ Lance Range	L/G	CN (21), ICP/MS, Hg (21)	5-304112 (Ice Only), 5-304113 (NaOH) (2)	G205f	S: 5/14/2008	18:00		

Shipment for Case Complete?N yes	Sample(s) to be used for laboratory QC: ME00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4.5	Chain of Custody Seal Number: 89337 89338
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? y / Shipment Iced? y

CN = Cyanide, ICP/MS, Hg = CLP ICP Metals, Hg

TR Number: 5-162075208-051408-0001

TR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

DATA CHEM LABORATORIES, INC.

SDG NARRATIVE

Case #: 37448
SDG#: ME00G3
Contract #: EP-W-06-054
DCL Set ID#: 8141028, 8141030
June 3, 2008

General Information

The ten samples in this SDG were analyzed by methodologies contained in ILM05.4. All concentration, analytical, and method qualifiers are defined in the SOW.

Holding Times

All samples were prepared and analyzed within method required holding times.

Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

ICP-MS Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

Preparation Blanks

The absolute values of all analyte concentrations in the preparation blanks were lower than the Contract Required Quantitation Limits.

Laboratory Control Sample Analysis

Results for the analysis of the water LCS met method acceptance criteria.

Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125%.

Matrix Duplicate Analysis

All matrix duplicate results met method acceptance criteria.

ICP-MS Serial Dilution

ICP-MS Serial Dilutions results met method acceptance criteria with the exceptions of chromium, cobalt, copper, lead and nickel.

Miscellaneous Comments

All calibration data is linear, please see raw data.
Cooler Temps were at 4 and 5 °C.

Issues: The TR/COC did not designate laboratory QC, we selected sample ME00G3 for this SDG.

Example Equations

Method HW3: $C \times \frac{Vf}{Vi} \times DF = Concentration(\mu g/L)$

Method CW1: $C \times DF = Concentration(\mu g/L)$

Method DW2: $C \times DF = Concentration(\mu g/L)$

C = Instrument value in µg/L (The average of all replicate integrations).
Vf = Final digestion volume (mL)
Vi = Initial digestion volume (mL)
DF = Dilution Factor

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COVER PAGE

JUN 0 5 2008

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
ME00G3	8141028001
ME00G3D	8141028003
ME00G3S	8141028002
ME00G4	8141028004
ME00G5	8141028005
ME00G6	8141028006
ME00G7	8141030001
ME00G9	8141030002
ME00H0	8141030003
ME00H1	8141030004
ME00H6	8141028007
ME00H7	8141030005

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS Interelement corrections applied?	(Yes/No)	NO	YES
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	NO	NO
If yes - were raw data generated before application of background corrections?	(Yes/No)	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 (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Neil Edwards

Date: 06/02/2008 Title: Chemist

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3-IN
BLANKS

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony	0.904	J	0.821	J	0.959	J	0.925	J	0.350	J	MS
Arsenic	1.000	U	1.000	U	1.000	U	1.000	U	1.000	U	MS
Barium	0.052	J	0.059	J	0.058	J	10.000	U	0.046	J	MS
Beryllium	0.064	J	0.082	J	0.035	J	0.026	J	1.000	U	MS
Cadmium	0.065	J	0.067	J	0.030	J	1.000	U	0.078	J	MS
Calcium											NR
Chromium	0.049	J	0.095	J	0.066	J	2.000	U	0.300	J	MS
Cobalt	0.041	J	0.057	J	0.034	J	1.000	U	0.054	J	MS
Copper	0.083	J	0.457	J	2.000	U	-0.092	J	0.570	J	MS
Iron											NR
Lead	0.074	J	0.069	J	0.044	J	1.000	U	0.072	J	MS
Magnesium											NR
Manganese	0.047	J	0.049	J	0.111	J	1.000	U	0.082	J	MS
Mercury	0.200	U	-0.022	J	-0.022	J	-0.019	J	-0.033	J	CV
Nickel	1.000	U	0.078	J	1.000	U	1.000	U	0.095	J	MS
Potassium											NR
Selenium	-0.167	J	5.000	U	5.000	U	0.183	J	5.000	U	MS
Silver	0.020	J	0.033	J	0.043	J	1.000	U	1.000	U	MS
Sodium											NR
Thallium	0.079	J	0.088	J	0.041	J	1.000	U	1.000	U	MS
Vanadium	0.065	J	0.075	J	0.103	J	5.000	U	5.000	U	MS
Zinc	0.298	J	2.000	U	2.000	U	2.000	U	1.711	J	MS
Cyanide	-1.756	J	-3.503	J	-2.542	J	10.000	U	10.000	U	AS

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3-IN
BLANKS

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: MEC0G3

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony			0.942	J	0.934	J					MS
Arsenic			0.113	J	1.000	U					MS
Barium			0.047	J	0.041	J					MS
Beryllium			0.020	J	0.025	J					MS
Cadmium			0.029	J	0.025	J					MS
Calcium											NR
Chromium			2.000	U	2.000	U					MS
Cobalt			0.024	J	0.028	J					MS
Copper			1.984	J	0.813	J					MS
Iron											NR
Lead			0.022	J	0.033	J					MS
Magnesium											NR
Manganese			0.093	J	0.080	J					MS
Mercury											NR
Nickel			0.344	J	0.274	J					MS
Potassium											NR
Selenium			0.355	J	0.201	J					MS
Silver			1.000	U	1.000	U					MS
Sodium											NR
Thallium			0.020	J	0.029	J					MS
Vanadium			5.000	U	5.000	U					MS
Zinc			0.163	J	0.230	J					MS
Cyanide											NR

USEPA - CLP

3-IN
BLANKS

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper	0.171	J	0.289	J	2.000	U	0.061	J			MS
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel	0.124	J	0.077	J	1.000	U	0.083	J			MS
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

USEPA - CLP

4B-IN
ICP-MS INTERFERENCE CHECK SAMPLE

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

ICP-MS Instrument ID: ICPM02 ICS Source: EPA(0803)

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Found Sol. A	%R	Found Sol. AB	%R
Aluminum						
Antimony	1.5	22.0	1.4	93	21.5	98
Arsenic	0.10	19.0	0.16	160	18.9	99
Barium	1.2	22.0	1.4	117	21.1	96
Beryllium	0.0	19.0	0.27		19.5	103
Cadmium	0.70	20.0	3.1	443	22.2	111
Calcium						
Carbon						
Chloride						
Chromium	21.0	40.0	19.1	91	38.6	97
Cobalt	1.0	20.0	1.3	130	20.3	102
Copper	8.0	25.0	8.0	100	26.6	106
Iron						
Lead	4.0	25.0	4.3	108	24.2	97
Magnesium						
Manganese	7.0	27.0	7.5	107	27.1	100
Molybdenum						
Nickel	6.0	24.0	6.4	107	25.2	105
Phosphorus						
Potassium						
Selenium	0.30	19.0	-0.81	270	17.5	92
Silver	0.0	18.0	0.023		18.4	102
Sodium						
Sulfur						
Thallium	0.0	21.0	-0.0042		19.8	94
Titanium						
Vanadium	0.50	19.0	0.028	0	19.9	105
Zinc	11.0	29.0	12.0	109	30.2	104

USEPA - CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA Sample No.

ME00G3S

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	95.2580		0.4983	J	100.00	95		MS
Arsenic	75-125	40.9370		2.7370		40.00	96		MS
Barium	75-125	1991.9000		101.9200		2000.00	94		MS
Beryllium	75-125	49.0970		0.1409	J	50.00	98		MS
Cadmium	75-125	47.9190		0.4641	J	50.00	95		MS
Calcium									NR
Chromium	75-125	189.4000		2.2246		200.00	94		MS
Cobalt	75-125	466.4500		2.6480		500.00	93		MS
Copper	75-125	232.0400		7.9793		250.00	90		MS
Iron									NR
Lead	75-125	24.0430		4.6010		20.00	97		MS
Magnesium									NR
Manganese	75-125	950.4400		458.0600		500.00	98		MS
Mercury	75-125	1.0411		0.2000	U	1.00	104		CV
Nickel	75-125	471.1000		13.9010		500.00	91		MS
Potassium									NR
Selenium	75-125	23.5180		13.0640		10.00	105		MS
Silver	75-125	46.6400		0.0908	J	50.00	93		MS
Sodium									NR
Thallium	75-125	48.5880		1.0000	U	50.00	97		MS
Vanadium	75-125	482.2500		4.3776	J	500.00	96		MS
Zinc	75-125	447.2000		19.5540		500.00	86		MS
Cyanide	75-125	96.5590		10.0000	U	100.00	97		AS

Comments:

USEPA - CLP

6-IN
DUPLICATES

EPA Sample No.

ME00G3D

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Matrix: (soil/water) WATER Level: (low/med) LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		0.4983	J	0.3734	J	29		MS
Arsenic	1.000	2.7370		2.8798		5		MS
Barium		101.9200		93.4580		9		MS
Beryllium		0.1409	J	1.0000	U	200		MS
Cadmium		0.4641	J	0.4313	J	7		MS
Calcium								NR
Chromium	2.000	2.2246		2.0263		9		MS
Cobalt	1.000	2.6480		2.7459		4		MS
Copper	2.000	7.9793		7.8467		2		MS
Iron								NR
Lead	1.000	4.6010		4.4016		4		MS
Magnesium								NR
Manganese		458.0600		467.5900		2		MS
Mercury		0.2000	U	0.2000	U			CV
Nickel		13.9010		14.0130		1		MS
Potassium								NR
Selenium	5.000	13.0640		14.2220		8		MS
Silver		0.0908	J	0.0996	J	9		MS
Sodium								NR
Thallium		1.0000	U	1.0000	U			MS
Vanadium		4.3776	J	3.6977	J	17		MS
Zinc		19.5540		18.3620		6		MS
Cyanide		10.0000	U	10.0000	U			AS

USEPA - CLP

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA Sample No.

ME00G3L

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Matrix: (soil/water) WATER Level: (low/med) LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony	0.50	J	0.68	J	36		MS
Arsenic	2.74		3.02	J	10		MS
Barium	101.92		107.63		6		MS
Beryllium	0.14	J	5.00	U	100		MS
Cadmium	0.46	J	0.53	J	15		MS
Calcium							NR
Chromium	2.22		2.81	J	27	E	MS
Cobalt	2.65		3.33	J	26	E	MS
Copper	7.98		9.48	J	19	E	MS
Iron							NR
Lead	4.60		5.49		19	E	MS
Magnesium							NR
Manganese	458.06		465.60		2		MS
Nickel	13.90		16.11		16	E	MS
Potassium							NR
Selenium	13.06		13.48	J	3		MS
Silver	0.09	J	0.44	J	389		MS
Sodium							NR
Thallium	1.00	U	5.00	U			MS
Vanadium	4.38	J	4.62	J	5		MS
Zinc	19.55		32.10		64		MS

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME0CG3

Instrument Type: CV Instrument ID: AACV01 Date: 01/10/2008

Preparation Method: CW1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury	253.70	0.2	0.016
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide			

Comments:

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument Type: MS Instrument ID: ICPM02 Date: 01/17/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2.0	0.10
Arsenic	75.00	1.0	0.073
Barium	137.00	10.0	0.028
Beryllium	9.00	1.0	0.016
Cadmium	111.00	1.0	0.024
Calcium			
Chromium	52.00	2.0	0.040
Cobalt	59.00	1.0	0.017
Copper	63.00	2.0	0.052
Iron			
Lead	206,207,208	1.0	0.019
Magnesium			
Manganese	55.00	1.0	0.022
Mercury			
Nickel	60.00	1.0	0.052
Potassium			
Selenium	82.00	5.0	0.16
Silver	107.00	1.0	0.018
Sodium			
Thallium	205.00	1.0	0.017
Vanadium	51.00	5.0	0.035
Zinc	66.00	2.0	0.12
Cyanide			

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument Type: MS Instrument ID: ICPM02 Date: 01/21/2008

Preparation Method: HW3

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony	121.00	2.0	0.085
Arsenic	75.00	1.0	0.12
Barium	137.00	10.0	0.034
Beryllium	9.00	1.0	0.13
Cadmium	111.00	1.0	0.017
Calcium			
Chromium	52.00	2.0	0.040
Cobalt	59.00	1.0	0.015
Copper	63.00	2.0	0.066
Iron			
Lead	206,207,208	1.0	0.058
Magnesium			
Manganese	55.00	1.0	0.034
Mercury			
Nickel	60.00	1.0	0.048
Potassium			
Selenium	82.00	5.0	0.23
Silver	107.00	1.0	0.048
Sodium			
Thallium	205.00	1.0	0.28
Vanadium	51.00	5.0	0.35
Zinc	66.00	2.0	0.97
Cyanide			

Comments:

USEPA - CLP

9-IN

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument Type: AS Instrument ID: WET01 Date: 01/10/2008

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	10	1.6

Comments:

USEPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME0CG3

Instrument Type: AS Instrument ID: WET01 Date: 01/09/2008

Preparation Method: DW2

Concentration Units (ug/L or mg/kg): ug/L

Analyte	Wavelength /Mass	CRQL	MDL
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Vanadium			
Zinc			
Cyanide	570.00	10	3.9

Comments:

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 05/27/2008 End Date: 05/27/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
BLNK	1.0	1112																										
S0	1.0	1145		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S2	1.0	1150		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S5	1.0	1155		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S10	1.0	1201		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S50	1.0	1206		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S200	1.0	1212		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S500	1.0	1217		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICV	1.0	1222		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICB	1.0	1228		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CRI1	1.0	1233		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSA	1.0	1239		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ICSAB	1.0	1244		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCV	1.0	1249		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB	1.0	1255		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
PBW	1.0	1300		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
LCSW	1.0	1305		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G3	1.0	1311		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G3S	1.0	1316		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G3D	1.0	1322		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G3L	5.0	1327		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G4	1.0	1332		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G5	1.0	1338		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00H6	1.0	1343		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G7	1.0	1349		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCV2	1.0	1354		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB2	1.0	1359		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G8	1.0	1405		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00H2	1.0	1410		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00H7	1.0	1416		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CRIF	1.0	1421		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCV3	1.0	1426		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB3	1.0	1432		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME00G6	1.0	1437		X	X	X	X	X		X	X			X						X	X		X	X				
ZZZZZZ	1.0	1443																										
ZZZZZZ	1.0	1448																										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME0CG3

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 05/27/2008 End Date: 05/27/2008

EPA Sample No.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ME0CG6	5.0	1454														X									X			
ZZZZZZ	1.0	1459																										
ME0HK	1.0	1504		X	X	X	X	X		X	X			X						X	X		X	X				
ZZZZZZ	1.0	1510																										
ZZZZZZ	1.0	1515																										
ZZZZZZ	1.0	1521																										
ZZZZZZ	1.0	1526																										
CCV4	1.0	1531		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB4	1.0	1537		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
ME0HG	5.0	1542														X									X			
ZZZZZZ	1.0	1548																										
ZZZZZZ	1.0	1553																										
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	1.0	1610																										
ZZZZZZ	1.0	1615																										
ZZZZZZ	1.0	1621																										
CRIF2	1.0	1626		X	X	X	X	X		X	X			X		X				X	X		X	X	X			
CCV5	1.0	1631		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
CCB5	1.0	1636		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument ID: ICPM02 Analysis Method: MS

Start Date: 05/28/2008 End Date: 05/28/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
RUNE	1.0	1110																										
S0	1.0	1150										X						X										
S2	1.0	1155										X						X										
S5	1.0	1201										X						X										
S10	1.0	1206										X						X										
S50	1.0	1211										X						X										
S200	1.0	1217										X						X										
S500	1.0	1222										X						X										
ICV2	1.0	1228										X						X										
ICB2	1.0	1233										X						X										
CRI12	1.0	1238										X						X										
ICSA2	1.0	1244										X						X										
ICSAB2	1.0	1249										X						X										
CCV6	1.0	1255										X						X										
CCB6	1.0	1300										X						X										
ME00G6	10	1305										X						X										
ME00H0	10	1311										X						X										
ZZZZZZ	1.0	1316																										
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1327																										
ZZZZZZ	1.0	1332																										
ZZZZZZ	1.0	1338																										
ZZZZZZ	1.0	1343																										
ZZZZZZ	1.0	1349																										
ZZZZZZ	1.0	1354																										
ICV7	1.0	1400										X						X										
ICB7	1.0	1405										X						X										
CRI13	1.0	1410										X						X										
ICV8	1.0	1416										X						X										
ICB8	1.0	1421										X						X										

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument ID: AACV01 Analysis Method: CV

Start Date: 05/28/2008 End Date: 05/28/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
30	1.0	1502															X											
30.2	1.0	1503															X											
30.3	1.0	1505															X											
31.0	1.0	1506															X											
35.0	1.0	1508															X											
31C	1.0	1509															X											
ICV	1.0	1511															X											
ICB	1.0	1512															X											
CRII	1.0	1514															X											
CCV	1.0	1515															X											
CCB	1.0	1517															X											
PBW	1.0	1518															X											
ME00G3	1.0	1519															X											
ME00G3S	1.0	1521															X											
ME00G3D	1.0	1522															X											
ME00G4	1.0	1524															X											
ME00G5	1.0	1525															X											
ME00G6	1.0	1527															X											
CCV2	1.0	1528															X											
CCB2	1.0	1530															X											
ME00H8	1.0	1531															X											
ME00G7	1.0	1533															X											
ME00G9	1.0	1534															X											
ME00H0	1.0	1536															X											
ME00H1	1.0	1537															X											
ME00H2	1.0	1538															X											
CRIF	1.0	1540															X											
CCV3	1.0	1541															X											
CCB3	1.0	1543															X											

USEPA - CLP

13-IN
ANALYSIS RUN LOG

Lab Name: DataChem Laboratories Contract: EP-W-06-054

Lab Code: DATAC Case No.: 37448 NRAS No.: _____ SDG No.: ME00G3

Instrument ID: WET01 Analysis Method: AS

Start Date: 05/21/2008 End Date: 05/21/2008

EPA Sample No.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1733																								X		
S10	1.0	1736																								X		
S50	1.0	1736																								X		
S100	1.0	1737																								X		
S200	1.0	1737																								X		
S300	1.0	1740																								X		
S400	1.0	1740																								X		
ICSV	1.0	1741																								X		
ICSB	1.0	1741																								X		
CRI1	1.0	1744																								X		
CCV1	1.0	1744																								X		
CCB1	1.0	1745																								X		
MIDRANGE	1.0	1745																								X		
PBW	1.0	1748																								X		
ME00G3	1.0	1748																								X		
ME00G3D	1.0	1749																								X		
ME00G3S	1.0	1750																								X		
ME00G4	1.0	1752																								X		
ME00G5	1.0	1753																								X		
ME00G6	1.0	1754																								X		
ME00G7	1.0	1754																								X		
CCV2	1.0	1757																								X		
CCB2	1.0	1757																								X		
ME00G9	1.0	1758																								X		
ME00H0	1.0	1758																								X		
ME00H3	1.0	1801																								X		
ME00H6	1.0	1801																								X		
ME00H7	1.0	1802																								X		
CRI2	1.0	1802																								X		
CCV3	1.0	1805																								X		
CCB3	1.0	1805																								X		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME0063 CERCLIS No: ILD004884380 9

Case No: 37448 Site Name/Location: Chemetco (IL)

Contractor or EPA Lab: DataChem Data User: IEPA

No. of Samples: 10 Date Sampled or Date Received: 5 June 08

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 10 No. of samples received: ____

Received by: pdavis Date: 5 June 08

Received by LSSS: pdavis Date: 8 June 08

Review started: 6-10-08 Reviewer Signature: [signature]

Total time spent on review: 8 +2.5 Date review completed: 6/16/08

Copied by: A. C. Harvey Date: July 14, 2008

Mailed to user by: pdavis Date: 15 July 08

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

ESAT Controlled Number: ESAT-17.00117-PO 7/17/08

DATE: July 17, 2008

IEPA
Attn: Mr. Mark Wagner
1001 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

RECEIVED
JUL 21 2008
IEPA-BOL-FSRS

SITE NAME: Chemetco (IL)

Case	Lab	Samples	SDG	Matrix
37448	Mitkem	11	E00G3	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

RECEIVED
JUL 21 2008
IEPA-BOL-FSR

Controlled Document

ESAT5.16.00068

ACH
7-17-08

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: June 6, 2008

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

for Steve Ostrodka
Richard L Bynik
7/16/08

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE Name: Chemetco (IL)

Case Number: 37448 SDG Number: E00G3

Number and Type of Samples: 11 waters (Trace VOA, Trace VOA SIM, Low Level VOA, SVOA, SVOA SIM, Pesticide, Aroclor)

Sample Numbers: E00G3 – E00G6, E00H2 – E00H6, E00H8, E00H9

Laboratory: Mitkem Laboratories Hrs for Review:

Following are our findings:

The data are usable and acceptable with the qualifications described in the attached narrative
Richard L Bynik

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 37448
Site Name: Chemetco (IL)

SDG Number: E00G3
Laboratory: Mitkem Laboratories

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

A total of eleven (11) preserved water samples labeled E00G3 – E00G6, E00H2 – E00H6, E00H8 and E00H9 were shipped to Mitkem Laboratories located in Warwick, RI. The samples were collected from 05-12-2008 through 05-14-2008. All samples were received on 05-16-2008. Three (3) water samples E00H2, E00H3 and E00H6 were received intact and properly cooled. The cooler temperature for the remaining eight (8) water samples was 7 degrees Celsius upon receipt.

Five (5) water samples E00H2, E00H3, E00H4, E00H5 and E00H9 were analyzed for trace volatile and trace volatile SIM target compounds. Seven (7) water samples E00G3 – E00G6, E00H3, E00H6 and E00H8 were analyzed for the low level volatile target compounds. Nine (9) water samples E00G3 – E00G6 and E00H2 - E00H6 were analyzed for the semivolatile, pesticide and aroclor target compounds. Four (4) water samples E00H2 – E00H5 were analyzed for the semivolatile SIM. The analyses for the samples and their QC samples are summarized in the following table:

Analyses / Sample ID	Trace VOA	Trace VOA SIM	Low level VOA	SVOA	SVOA SIM	Pesticide	Aroclor
E00G3			X	X		X	X
E00G4			X	X		X	X
E00G5			X	X		X	X
E00G6			X	X		X	X
E00H2	X	X		X	X	X	X
E00H3	X	X	X	X	X	X	X
E00H3MS	X		X	X	X	X	X
E00H3MSD	X		X	X	X	X	X
E00H4	X	X		X	X	X	X
E00H5	X	X		X	X	X	X
E00H6			X	X		X	X
E00H8			X				
E00H9	X	X					

The trace volatile SIM samples were analyzed for the following list of two (2) target compounds:

1,2-Dibromoethane	1,2-Dibromo-3-chloropropane	

Case Number: 37448
Site Name: Chemetco (IL)

SDG Number: E00G3
Laboratory: Mitkem Laboratories

The semivolatile SIM samples were analyzed for the following list of eighteen (18) target compounds:

Naphthalene	Phenanthrene	Benzo(b)fluoranthene
2-Methylnaphthalene	Anthracene	Benzo(k)fluoranthene
Acenaphthylene	Fluoranthene	Benzo(a)pyrene
Acenaphthene	Pyrene	Indeno(1,2,3-cd)pyrene
Fluorene	Benzo(a)anthracene	Dibenzo(a,h)anthracene
Pentachlorophenol	Chrysene	Benzo(g,h,i)perylene

All samples were analyzed according to CLP SOW SOM01.2 and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.2).

Water sample E00H3 was designated by the samplers to be used for MS/MSD analyses. Sample E00H3 was used as MS/MSD for the trace volatile, low level volatile, semivolatile, semivolatile SIM, pesticide and aroclor analyses. No MS/MSD was performed for the trace volatile SIM analysis.

Samples E00H8 and E00H9 were identified as trip blanks. No samples were identified as field blanks or field duplicates.

Case Number: 37448
Site Name: Chemetco (IL)

SDG Number: E00G3
Laboratory: Mitkem Laboratories

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No BFB and DFTPP instrument performance checks analyses were required for the trace volatile SIM and semivolatile SIM analyses, respectively.

No problems were found.

3. CALIBRATION

The following low level volatile samples are associated with an initial and continuing CCVs with relative response factors (RRF) less than 0.005. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E00G3, E00G4, E00G5, E00G6, E00H3, E00H3MS, E00H3MSD, E00H6, E00H8, VBLKD5, VBLKP5, VHBLKP5

The following low level volatile samples are associated with an initial and/or continuing CCVs in which a DMC did not meet relative response factor (RRF50) criteria. Sample results are not qualified based on the DMC %RSD or RRF data alone.

1,1-Dichloroethene-d_2, 1,4-Dioxane-d_8
E00G3, E00G4, E00G5, E00G6, E00H3, E00H3MS, E00H3MSD, E00H6, E00H8, VBLKD5, VBLKP5, VHBLKP5

The following low level volatile samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 20%. Detected 1,1-Dichloroethene in samples E00H3MS and E00H3MSD are qualified "J". The non-detected compound is qualified "UJ".

1,1-Dichloroethene
E00H3, E00H3MS, E00H3MSD, VBLKP5, VHBLKP5

The following trace volatile samples are associated with an opening CCV percent difference (%D) greater than 30%. The compounds were not detected in any of the samples. The non-detected compounds are qualified "UJ".

1,1,1-Trichloroethane, Carbon tetrachloride
E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, E00H9, VBLK2T

1,1-Dichloroethene
VBLKM5, VHBLKM5

The following semivolatile samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 20%. Detected Pentachlorophenol in samples E00H3MS and E00H3MSD is qualified "J". The non-detected compounds are qualified "UJ".

Pentachlorophenol, Benzo(b)fluoranthene
E00G3, E00G4, E00G5, E00G5DL, E00G6, E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, E00H6, SBLK2A

The following semivolatile samples are associated with an initial calibration in which a DMC did not meet the relative standard deviation (RSD) criteria. Sample results are not qualified based on the DMC %RSD or RRF data alone.

Phenol-d_5
E00G3, E00G4, E00G5, E00G5DL, E00G6, E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, E00H6, SBLK2A

The following semivolatile SIM samples are associated with an initial and continuing CCVs with relative response factors (RRF) less than 0.05. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

Pentachlorophenol
E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, SBLK4K

The following semivolatile SIM samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 20%. The compounds were not detected in any of the samples. The non-detected compounds are qualified "UJ". Non-detected Pentachlorophenol is ultimately qualified "R" because of low RRF values.

Naphthalene, Pentachlorophenol
E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, SBLK4K

The following semivolatile SIM samples are associated with an opening CCV percent difference (%D) greater than 25%. The compound was not detected in any of the samples. The non-detected compound is ultimately qualified "R" because of low RRF values.

Pentachlorophenol
E00H2, E00H3, E00H3MS, E00H3MSD, E00H4, E00H5, SBLK4K

4. BLANKS

The following low level volatile samples have analyte concentrations reported less than the CRQL. The associated method blank sample has analyte concentration less than the CRQL. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Carbon disulfide
E00H3, E00H3MS, E00H3MSD, VHBLKP5

The following semivolatile samples have TIC concentrations reported less than 10 µg/L. The associated method blank concentration has TIC concentrations reported less than 10 µg/L. Detected compounds are qualified "U" and deleted from the TIC report.

E00G3, E00G4, E00G5, E00H2, E00H3, E00H4, E00H6

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following low level volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in any of the samples. The non-detected compounds are not qualified for this criterion.

E00G5
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide

The following low level volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to 20%. The compounds were not detected in any of the samples. The non-detected compounds are qualified "UJ". Non-detected 1,4-Dioxane is ultimately qualified "R" because all qualification criteria was not met.

E00G3
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

E00H6
1,4-Dioxane

E00H8
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide

The following low level volatile samples have one or more DMC/SMC recovery values less than 20%. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

E00G4, E00G5, E00H8
1,4-Dioxane

The following trace volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected 1,1-Dichloroethene in samples E00H3MS and E00H3MSD is qualified "J". The non-detected compounds are not qualified for this criterion. Non-detected 1,1,1-Trichloroethane and Carbon Tetrachloride are ultimately qualified "UJ" because all qualification criteria was not met.

E00H3MS, E00H3MSD
Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2,-trifluoroethane, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethene, Methyl tert-Butyl Ether, cis-1,2-Dichloroethene, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

E00H4, E00H5
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2,-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl tert-Butyl Ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

The following semivolatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in any of the samples. The non-detected compounds are not qualified for this criterion.

E00G5
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

The following diluted semivolatile samples have one or more DMC/SMC recoveries values less than the primary lower limit but greater than or equal to 0%. Detected and non-detected compounds are not qualified because the dilution factor for the sample was equal to or greater than 5.0.

E00G5DL
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichorophenol, 2,4,5-Trichorophenol, 4,6-Dinitro-2-methylphenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

The following semivolatile samples have deuterated monitoring compound recoveries below the lower limit of the criteria window but greater than or equal to 0%. The compounds were not detected in any of the samples. The non-detected compounds are qualified "UJ".

E00G5
2,4-Dichlorophenol, Hexachlorobutadiene, 4-Chloro-3-methylphenol, 2,4,6-Trichorophenol, 2,4,5-Trichorophenol, 1,2,4,5-Tetrachlorobenzene, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol

E00G6
Benzaldehyde, Phenol, 4-Chloroaniline, Hexachlorocyclopentadiene, 4,6-Dinitro-2-methylphenol, 3,3'-Dichlorobenzidine

E00H5
4,6-Dinitro-2-methylphenol

The following pesticide samples have only one surrogate recovery value outside the acceptance criteria. Results are only qualified if two or more surrogate recoveries are outside the acceptance criteria. Detected and non-detected compounds are not qualified.

E00G5

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Water sample E00H3 was designated by the samplers to be used for MS/MSD analyses. Sample E00H3 was used as MS/MSD for the trace volatile, low level volatile, semivolatile , semivolatile SIM, pesticide and aroclor analyses. No MS/MSD was performed for the trace volatile SIM analysis.

The relative percent differences (RPDs) between the following trace volatile matrix spike and matrix spike duplicate recoveries is outside criteria. The compounds were not detected in the unspiked sample, E00H3. Non-detected compounds in the unspiked sample, E00H3, are qualified "UJ".

E00H3MS, E00H3MSD
1,1-Dichloroethene, Benzene, Toluene, Chlorobenzene

The following semivolatile SIM matrix spike/matrix spike duplicate samples have percent recoveries less than 5%. Pentachlorophenol was not detected in the unspiked sample, E00H3. The non-detected compound in the unspiked sample, E00H3, is qualified "R".

E00H3MS, E00H3MSD
Pentachlorophenol

The relative percent differences (RPDs) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Heptachlor was not detected in the unspiked sample, E00H3. The non-detected compound in the unspiked sample, E00H3, is qualified "UJ".

E00H3MS, E00H3MSD
Heptachlor

6B. LABORATORY CONTROL SAMPLE

No problems were found.

7. FIELD BLANK AND FIELD DUPLICATE

Samples E00H8 and E00H9 were identified as trip blanks. No samples were identified as field blanks or field duplicates. Sample E00H9 was analyzed for the trace volatile and trace volatile SIM target compounds. Sample E00H8 was analyzed for the low level volatile target compounds. No target compounds or TICs were detected in the trip blanks E00H8 and E00H9.

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that the trace volatile, trace volatile SIM, semivolatile , semivolatile SIM, pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following low level volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E00G6
cis-1,2-Dichloroethene

VBLKP5
Carbon disulfide

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E00G3, E00G5, E00G6, E00H2
Bis(2-ethyl hexyl)phthalate

E00G4
Bis(2-ethyl hexyl)phthalate, Di-n-octylphthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

PLCS4A
gamma-HBC (Lindane), 4,4'-DDE

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baselines for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The following trace volatile sample has results flagged as "R" by the laboratory. The results are acceptable without qualification. The "R" flags were removed from Form I VOA by the reviewer.

E00H3MSD
1,1-Dichloroethene, Benzene, Toluene, Chlorobenzene

The following semivolatile sample has compound concentrations which exceed the instruments calibration range. The detected result is qualified "J". The result from the diluted analysis should be considered the final concentrations for the affected compounds.

E00G5
Caprolactam

The CADRE and EDD spreadsheets did not include the following pesticide and aroclor samples. The laboratory Form Is for these samples are included with the hard copy data package.

ALCS2A, PLCS4A

Case Number: 37448
Site Name: Chemetco (IL)

SDG Number: E00G3
Laboratory: Mitkem Laboratories

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Reviewed by: Steffanie Tobin / Techlaw-ESAT
Date: July 15, 2008

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 7
Number of Sediment Samples : 0

Sample Number :	E00G3		E00G4		E00G5		E00G6		E00H3	
Sampling Location :	G201		G202		G204		G203		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008		5/14/2008		5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		2.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	UJ	5.0	U	5.0	U	4.5	J	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	5.0	U	5.0	U	5.0	U	15		5.0	U
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00G3		E00G4		E00G5		E00G6		E00H3	
Sampling Location :	G201		G202		G204		G203		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008		5/14/2008		5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		2.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H3MS		E00H3MSD		E00H6		E00H8		VBLKD5	
Sampling Location :	G102		G102		G205		TB			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					5/14/2008		5/12/2008			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U
Chloromethane	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U
Vinyl chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromomethane	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U
Chloroethane	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U
Trichlorofluoromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethene	41	J	37	J	5.0	U	5.0	U	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	U
Methyl acetate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methylene chloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
trans-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Methyl tert-butyl ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,2-Dichloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Bromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chloroform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,1-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon tetrachloride	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzene	48		45		5.0	U	5.0	U	5.0	U
1,2-Dichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dioxane	100	R	100	R	100	R	100	R	100	R
Trichloroethene	48		45		5.0	U	5.0	U	5.0	U
Methylcyclohexane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromodichloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
cis-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	48		46		5.0	U	5.0	U	5.0	U
trans-1,3-Dichloropropene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H3MS		E00H3MSD		E00H6		E00H8		VBLKD5	
Sampling Location :	G102		G102		G205		TB			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					5/14/2008		5/12/2008			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Tetrachloroethene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromoethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chlorobenzene	51		49		5.0	U	5.0	U	5.0	U
Ethylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
o-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
m,p-Xylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Styrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromoform	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isopropylbenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,3-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,4-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,3-Trichlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448
Site :
Lab. :
Reviewer :
Date :

SDG : E00G3
CHEMETCO
MITKEM

Sample Number :	VBLKP5		VHBLKP5							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0	U	5.0	U						
Chloromethane	5.0	U	5.0	U						
Vinyl chloride	5.0	U	5.0	U						
Bromomethane	5.0	U	5.0	U						
Chloroethane	5.0	U	5.0	U						
Trichlorofluoromethane	5.0	U	5.0	U						
1,1-Dichloroethene	5.0	UJ	5.0	UJ						
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	5.0	U						
Acetone	10	U	10	U						
Carbon disulfide	2.4	J	5.0	U						
Methyl acetate	5.0	U	5.0	U						
Methylene chloride	5.0	U	5.0	U						
trans-1,2-Dichloroethene	5.0	U	5.0	U						
Methyl tert-butyl ether	5.0	U	5.0	U						
1,1-Dichloroethane	5.0	U	5.0	U						
cis-1,2-Dichloroethene	5.0	U	5.0	U						
2-Butanone	10	U	10	U						
Bromochloromethane	5.0	U	5.0	U						
Chloroform	5.0	U	5.0	U						
1,1,1-Trichloroethane	5.0	U	5.0	U						
Cyclohexane	5.0	U	5.0	U						
Carbon tetrachloride	5.0	U	5.0	U						
Benzene	5.0	U	5.0	U						
1,2-Dichloroethane	5.0	U	5.0	U						
1,4-Dioxane	100	R	100	R						
Trichloroethene	5.0	U	5.0	U						
Methylcyclohexane	5.0	U	5.0	U						
1,2-Dichloropropane	5.0	U	5.0	U						
Bromodichloromethane	5.0	U	5.0	U						
cis-1,3-Dichloropropene	5.0	U	5.0	U						
4-Methyl-2-pentanone	10	U	10	U						
Toluene	5.0	U	5.0	U						
trans-1,3-Dichloropropene	5.0	U	5.0	U						

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	VBLKP5		VHBLKP5							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	5.0	U	5.0	U						
Tetrachloroethene	5.0	U	5.0	U						
2-Hexanone	10	U	10	U						
Dibromochloromethane	5.0	U	5.0	U						
1,2-Dibromoethane	5.0	U	5.0	U						
Chlorobenzene	5.0	U	5.0	U						
Ethylbenzene	5.0	U	5.0	U						
o-Xylene	5.0	U	5.0	U						
m,p-Xylene	5.0	U	5.0	U						
Styrene	5.0	U	5.0	U						
Bromoform	5.0	U	5.0	U						
Isopropylbenzene	5.0	U	5.0	U						
1,1,2,2-Tetrachloroethane	5.0	U	5.0	U						
1,3-Dichlorobenzene	5.0	U	5.0	U						
1,4-Dichlorobenzene	5.0	U	5.0	U						
1,2-Dichlorobenzene	5.0	U	5.0	U						
1,2-Dibromo-3-chloropropane	5.0	U	5.0	U						
1,2,4-Trichlorobenzene	5.0	U	5.0	U						
1,2,3-Trichlorobenzene	5.0	U	5.0	U						

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 5
Number of Sediment Samples : 0

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		2.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	UJ	3.3	J	3.8	J	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ
Benzene	0.50	U	0.50	UJ	4.8		5.7		0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	0.50	U	5.2		6.0		0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	UJ	5.0		6.0		0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		2.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	UJ	5.3		6.4		0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		E00H9		VBLK2T		VBLKM5		VHBLKM5	
Sampling Location :	G104		TB2							
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/12/2008							
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		7.0				7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	UJ	0.50	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		E00H9		VBLK2T		VBLKM5		VHBLKM5	
Sampling Location :	G104		TB2							
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/12/2008							
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		7.0				7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 5
Number of Sediment Samples : 0

Sample Number :	E00H2		E00H3		E00H4		E00H5		E00H9	
Sampling Location :	G101		G102		G103		G104		TB2	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008		5/13/2008		5/13/2008		5/12/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2.0		2.0		2.0		2.0		2.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,2-Dibromoethane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
1,2-Dibromo-3-chloropropane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	VBLK2V		VHBLK2V							
Sampling Location :										
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Volatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,2-Dibromoethane	0.050	U	0.050	U						
1,2-Dibromo-3-chloropropane	0.050	U	0.050	U						

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 9
Number of Sediment Samples : 0

Sample Number :	E00G3		E00G4		E00G5		E00G5DL		E00G6	
Sampling Location :	G201		G202		G204		G204		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008				5/14/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.5		7.5		7.5		7.5		6.0	
Dilution Factor :	1.0		1.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	25	U	5.0	UJ
Phenol	5.0	U	5.0	U	5.0	U	25	U	5.0	UJ
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	25	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	25	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	25	U	5.0	UJ
Hexachlorobutadiene	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
Caprolactam	78		75		260	J	230		63	
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	25	U	5.0	UJ
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	50	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	50	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	25	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00G3		E00G4		E00G5		E00G5DL		E00G6	
Sampling Location :	G201		G202		G204		G204		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008				5/14/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.5		7.5		7.5		7.5		6.0	
Dilution Factor :	1.0		1.0		1.0		5.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	50	U	10	U
4-Nitrophenol	10	U	10	U	10	U	50	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	25	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	25	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	50	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	50	U	10	UJ
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	25	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Pentachlorophenol	10	UJ	10	UJ	10	UJ	50	UJ	10	UJ
Phenanthrene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	25	U	5.0	UJ
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	25	U	0.94	J
Bis(2-ethylhexyl)phthalate	0.76	J	1.0	J	1.2	J	25	U	5.0	U
Di-n-octylphthalate	5.0	U	2.4	J	5.0	U	25	UJ	5.0	UJ
Benzo(b)fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ	25	U	5.0	U
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	25	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	UJ	25	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0					

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	26		29		5.0	U
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	24		29		5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	25		30		5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	27		30		5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	25		28		5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	26		28		10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	27		29		5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	UJ	10	UJ	20	J	19	J	10	UJ
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	24		25		5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bis(2-ethylhexyl)phthalate	0.97	J	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(b)fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ	5.0	UJ
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		E00H6		SBLK2A					
Sampling Location :	G104		G205							
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	5/13/2008		5/14/2008							
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :	7.0		7.0		7.0					
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	5.0	U	5.0	U	5.0	U				
Phenol	5.0	U	5.0	U	5.0	U				
Bis(2-chloroethyl)ether	5.0	U	5.0	U	5.0	U				
2-Chlorophenol	5.0	U	5.0	U	5.0	U				
2-Methylphenol	5.0	U	5.0	U	5.0	U				
2,2'-Oxybis(1-chloropropane)	5.0	U	5.0	U	5.0	U				
Acetophenone	5.0	U	5.0	U	5.0	U				
4-Methylphenol	5.0	U	5.0	U	5.0	U				
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U				
Hexachloroethane	5.0	U	5.0	U	5.0	U				
Nitrobenzene	5.0	U	5.0	U	5.0	U				
Isophorone	5.0	U	5.0	U	5.0	U				
2-Nitrophenol	5.0	U	5.0	U	5.0	U				
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U				
Bis(2-chloroethoxy)methane	5.0	U	5.0	U	5.0	U				
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U				
Naphthalene	5.0	U	5.0	U	5.0	U				
4-Chloroaniline	5.0	U	5.0	U	5.0	U				
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U				
Caprolactam	5.0	U	5.0	U	5.0	U				
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U				
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U				
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U				
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U				
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U				
1,1'-Biphenyl	5.0	U	5.0	U	5.0	U				
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U				
2-Nitroaniline	10	U	10	U	10	U				
Dimethylphthalate	5.0	U	5.0	U	5.0	U				
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U				
Acenaphthylene	5.0	U	5.0	U	5.0	U				
3-Nitroaniline	10	U	10	U	10	U				
Acenaphthene	5.0	U	5.0	U	5.0	U				

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		E00H6		SBLK2A					
Sampling Location :	G104		G205							
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :	5/13/2008		5/14/2008							
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :	7.0		7.0		7.0					
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	10	U	10	U	10	U				
4-Nitrophenol	10	U	10	U	10	U				
Dibenzofuran	5.0	U	5.0	U	5.0	U				
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U				
Diethylphthalate	5.0	U	5.0	U	5.0	U				
Fluorene	5.0	U	5.0	U	5.0	U				
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U				
4-Nitroaniline	10	U	10	U	10	U				
4,6-Dinitro-2-methylphenol	10	UJ	10	U	10	U				
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U				
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U				
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U				
Hexachlorobenzene	5.0	U	5.0	U	5.0	U				
Atrazine	5.0	U	5.0	U	5.0	U				
Pentachlorophenol	10	UJ	10	UJ	10	UJ				
Phenanthrene	5.0	U	5.0	U	5.0	U				
Anthracene	5.0	U	5.0	U	5.0	U				
Carbazole	5.0	U	5.0	U	5.0	U				
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U				
Fluoranthene	5.0	U	5.0	U	5.0	U				
Pyrene	5.0	U	5.0	U	5.0	U				
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U				
3,3'-Dichlorobenzidine	5.0	U	5.0	U	5.0	U				
Benzo(a)anthracene	5.0	U	5.0	U	5.0	U				
Chrysene	5.0	U	5.0	U	5.0	U				
Bis(2-ethylhexyl)phthalate	5.0	U	5.0	U	5.0	U				
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U				
Benzo(b)fluoranthene	5.0	UJ	5.0	UJ	5.0	UJ				
Benzo(k)fluoranthene	5.0	U	5.0	U	5.0	U				
Benzo(a)pyrene	5.0	U	5.0	U	5.0	U				
Indeno(1,2,3-cd)pyrene	5.0	U	5.0	U	5.0	U				
Dibenzo(a,h)anthracene	5.0	U	5.0	U	5.0	U				
Benzo(g,h,i)perylene	5.0	U	5.0	U	5.0	U				
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U				

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 4
Number of Sediment Samples : 0

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ	0.10	UJ
2-Methylnaphthalene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Acenaphthylene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Acenaphthene	0.10	U	0.10	U	0.36		0.37		0.10	U
Fluorene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Pentachlorophenol	0.20	R	0.20	R	0.20	R	0.20	R	0.20	R
Phenanthrene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Anthracene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Fluoranthene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Pyrene	0.10	U	0.10	U	0.50		0.50		0.10	U
Benzo(a)anthracene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Chrysene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Benzo(b)fluoranthene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Benzo(k)fluoranthene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Benzo(a)pyrene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Indeno(1,2,3-cd)pyrene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Dibenzo(a,h)anthracene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Benzo(g,h,i)perylene	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		SBLK4K							
Sampling Location :	G104									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	5/13/2008									
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Semivolatile SIM Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Naphthalene	0.10	UJ	0.10	UJ						
2-Methylnaphthalene	0.10	U	0.10	U						
Acenaphthylene	0.10	U	0.10	U						
Acenaphthene	0.10	U	0.10	U						
Fluorene	0.10	U	0.10	U						
Pentachlorophenol	0.20	R	0.20	R						
Phenanthrene	0.10	U	0.10	U						
Anthracene	0.10	U	0.10	U						
Fluoranthene	0.10	U	0.10	U						
Pyrene	0.10	U	0.10	U						
Benzo(a)anthracene	0.10	U	0.10	U						
Chrysene	0.10	U	0.10	U						
Benzo(b)fluoranthene	0.10	U	0.10	U						
Benzo(k)fluoranthene	0.10	U	0.10	U						
Benzo(a)pyrene	0.10	U	0.10	U						
Indeno(1,2,3-cd)pyrene	0.10	U	0.10	U						
Dibenzo(a,h)anthracene	0.10	U	0.10	U						
Benzo(g,h,i)perylene	0.10	U	0.10	U						

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 9
Number of Sediment Samples : 0

Sample Number :	E00G3		E00G4		E00G5		E00G6		E00H2	
Sampling Location :	G201		G202		G204		G203		G101	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/14/2008		5/14/2008		5/14/2008		5/14/2008		5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.5		7.5		7.5		6.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H3		E00H3MS		E00H3MSD		E00H4		E00H5	
Sampling Location :	G102		G102		G102		G103		G104	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008						5/13/2008		5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.39		0.38		0.050	U	0.050	U
Heptachlor	0.050	UJ	0.29		0.21		0.050	U	0.050	U
Aldrin	0.050	U	0.46		0.44		0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.98		0.98		0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.99		0.98		0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.76		0.69		0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H6		PBLK4A							
Sampling Location :	G205									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	5/14/2008									
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Pesticide Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U						
beta-BHC	0.050	U	0.050	U						
delta-BHC	0.050	U	0.050	U						
gamma-BHC (Lindane)	0.050	U	0.050	U						
Heptachlor	0.050	U	0.050	U						
Aldrin	0.050	U	0.050	U						
Heptachlor epoxide	0.050	U	0.050	U						
Endosulfan I	0.050	U	0.050	U						
Dieldrin	0.10	U	0.10	U						
4,4'-DDE	0.10	U	0.10	U						
Endrin	0.10	U	0.10	U						
Endosulfan II	0.10	U	0.10	U						
4,4'-DDD	0.10	U	0.10	U						
Endosulfan sulfate	0.10	U	0.10	U						
4,4'-DDT	0.10	U	0.10	U						
Methoxychlor	0.50	U	0.50	U						
Endrin ketone	0.10	U	0.10	U						
Endrin aldehyde	0.10	U	0.10	U						
alpha-Chlordane	0.050	U	0.050	U						
gamma-Chlordane	0.050	U	0.050	U						
Toxaphene	5.0	U	5.0	U						

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 9
Number of Sediment Samples : 0

Sample Number :	ABLK2A		E00G3		E00G4		E00G5		E00G6	
Sampling Location :			G201		G202		G204		G203	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			5/14/2008		5/14/2008		5/14/2008		5/14/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.5		7.5		7.5		6.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H2		E00H3		E00H3MS		E00H3MSD		E00H4	
Sampling Location :	G101		G102		G102		G102		G103	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	5/13/2008		5/13/2008						5/13/2008	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.0		7.0		7.0		7.0		7.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U	3.9		3.7		1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	4.0		3.7		1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 37448 SDG : E00G3
Site : CHEMETCO
Lab. : MITKEM
Reviewer :
Date :

Sample Number :	E00H5		E00H6							
Sampling Location :	G104		G205							
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	5/13/2008		5/14/2008							
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	1.0	U	1.0	U						
Aroclor-1221	1.0	U	1.0	U						
Aroclor-1232	1.0	U	1.0	U						
Aroclor-1242	1.0	U	1.0	U						
Aroclor-1248	1.0	U	1.0	U						
Aroclor-1254	1.0	U	1.0	U						
Aroclor-1260	1.0	U	1.0	U						
Aroclor-1262	1.0	U	1.0	U						
Aroclor-1268	1.0	U	1.0	U						

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00G6 Location=G203 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
123-05-7	Hexanal, 2-ethyl-	5.306	4.0	ug/L	NJ
	Unknown-01	8.094	2.1		J
	Unknown-02	8.845	3.5		J
	Unknown-03	8.909	2.3		J
264-09-5	Benzocycloheptatriene	9.317	4.4		NJ
	Unknown-04	9.67	2.2		J
	Unknown-05	9.96	2.1		J
300-57-2	Benzene, 2-propenyl-	10.185	2.6		NJ
14944-23-1	1(2H)-Naphthalenone, 3,4-dihydro-3-methy	10.314	6.7		NJ
	Unknown-06	10.507	2.0		J
6939-35-1	1(2H)-Naphthalenone, 3,4-dihydro-5-methy (10.98945	10.989	5.3		NJ
6939-35-1	1(2H)-Naphthalenone, 3,4-dihydro-5-methy (11.12885	11.129	4.6		NJ
	Unknown-07	11.376	5.3		J
	Unknown-08	11.429	3.8		J
	Unknown-09	13.392	6.4		J
	Unknown-10	15.043	24		J
	Unknown-11	15.783	3.0		J
	Unknown-12	15.922	8.0		J
	Unknown-13	16.265	29		J
	Unknown-14	16.576	6.3		J
	Unknown-15	17.005	2.2		J
	Unknown-16	17.252	23		J
	Unknown-17	17.499	3.9		J
	Unknown-18	18.196	10		J
	Unknown-19	18.453	4.2		J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00H2 Location=G101 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-02	18.1	2.2		J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00H3 Location=G102 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00H4 Location=G103 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00H6 Location=G205 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=SBLK2A Location=No TR data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	11.248	2.8	ug/L	J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00G3 Location=G201 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	7.902	5.5	ug/L	J
	Unknown-03	15.173	2.8		J
	Unknown-04	15.237	2.1		J
	Unknown-05	15.977	25		J
	Unknown-06	16.32	6.0		J
	Unknown-07	17.307	7.0		J
	Unknown-08	17.403	2.8		J
	Unknown-09	17.8	3.4		J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00G4 Location=G202 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	7.901	5.9	ug/L	J
	Unknown-03	15.108	6.3		J
	Unknown-04	15.976	29		J
	Unknown-05	16.33	12		J
	Unknown-06	17.274	8.9		J
	Unknown-07	17.628	18		J
	Unknown-08	17.724	22		J
	Unknown-09	17.821	17		J
	Unknown-10	17.917	9.1		J
	Unknown-11	18.024	2.1		J
	Unknown-12	18.132	2.5		J
	Unknown-13	19.579	7.8		J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00G5 Location=G204 Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-02	13.38	2.0		J
	Unknown-03	15.075	11		J
	Unknown-04	15.825	5.3		J
	Unknown-05	16.051	87		J
	Unknown-06	16.276	17		J
	Unknown-07	17.252	17		J
	Unknown-08	17.745	4.6		J
	Unknown-09	17.809	4.9		J
	Unknown-10	18.185	15		J
	Unknown-11	19.514	7.1		J
	Unknown-12	21.241	7.7		J

National Functional Guidelines Report # 9

14:49 Fri, Jun 6, 2008

Lab MITKEM (Mitkem Corporation) **SDG** E00G3 **Case** 37448 **Contract** EPW05030 **Region** 5 **DDTID** 59872 **SOW** SOM01.2

Tentatively identified Compounds

BNA Sample=E00G5DL Location=No_TR_data Matrix=Water Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.891	78	ug/L	DJ

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 4 June 08

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Chemetco (IL)

CASE NUMBER: 37448 SDG NUMBER: EDDG3

Number and Type of Samples: 11 WATER SAMPLES

Sample Numbers: EDDG3-G6; H2-H6; H8-H9

Laboratory: MITKEM LABORATORIES Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG)

Cover Sheet

SDG Number E00G3

Laboratory Name	Mitkem Laboratories	Lab Code	MITKEM
Contract No.	EP-W-05-030	Case No.	37448
Analysis Price	$437	SDG Turnaround	21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

01) E00G3	08) E00H3MSD		
02) E00G4	09) E00H4		
03) E00G5	10) E00H5		
04) E00G6	11) E00H6		
05) E00H2	12) E00H8		
06) E00H3	13) E00H9		
07) E00H3MS			

First Sample in SDG	Last Sample in SDG
E00G3	E00H9

First Sample Receipt Date	Last Sample Receipt Date
05/16/2008	05/16/2008

Note: There are a maximum of 20 field samples [excluding Performance Evaluation (PE) samples in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature [illegible] Date 5/20/2008

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37448
DAS No:
SDG No: E00G3

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892210083169
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/15 1300	[signature]	5/16/08 10:00
2			
3			
4			

For Lab Use Only

Lab Contract No:	EP. W 05 030
Unit Price:	~~$524.40~~ ~~$53~~ $437 MN 5/15/08
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
10 E00H8	Field QC/ Lance Range	L/G	VOA-SOM (21)	5-304114 (HCL), 5-304115 (HCL) (2)	TB	S: 5/12/2008	6:00		
11 E00H9	Potable Well/ Lance Range	L/G	TVOA (21)	5-304116 (HCL), 5-304117 (HCL) (2)	TB2	S: 5/12/2008	6:00		

↓
SDG- Final Sample

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: E00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.6, 3.2, 5.5°C	Chain of Custody Seal Number: 27633, 27922, 27924, 27923, 27632, 27634
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST/P = CLP-Pesticides/Aroclor-SOM, SIM-SOM = CLP-SVOA-SIM-SOM, SVOA-SOM = CLP-SVOA-SOM, TVOA = CLP-TVOA-SIM-SOM, VOA-SOM = CLP-VOA-SOM

TR Number: 5-162075208-051508-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

EPA USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	37448
DAS No:	
SDG No.	E00G3

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892210083169
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/15 1300	[signature]	5/16/08 10:00
2			
3			
4			

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	~~$524.40~~ $437 AKW 5/19/08
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
06 E00H3	Potable Well/ Lance Range	L/G	CLP-PEST/P (21), SIM-SOM (21), TVOA (21)	5-304080 (HCL), 5-304081 (HCL), 5-304082 (HCL), 5-304083 (HCL), 5-304084 (HCL), 5-304085 (HCL), 5-304086 (HCL), 5-304087 (HCL), 5-304088 (HCL), 5-304089 (HCL), 5-304090 (HCL), 5-304091 (HCL), 5-304092 (HCL), 5-304093 (HCL), 5-304094 (HCL), 5-304095 (Ice Only), 5-304096 (Ice Only), 5-304097 (Ice Only), 5-304098 (Ice Only), 5-304099 (Ice Only), 5-304100 (Ice Only) (21)	G102	S: 5/13/2008	11:05	ME00H3	
07 E00H4	Potable Well/ Lance Range	L/G	CLP-PEST/P (21), SIM-SOM (21), TVOA (21)	5-303540 (HCL), 5-303541 (HCL), 5-303542 (HCL), 5-303543 (HCL), 5-303544 (HCL), 5-303545 (Ice Only), 5-303546 (Ice Only) (7)	G103	S: 5/13/2008	12:25	ME00H4	
08 E00H5	Potable Well/ Lance Range	L/G	CLP-PEST/P (21), SIM-SOM (21), TVOA (21)	5-303549 (Ice Only), 5-303550 (Ice Only), 5-304101 (HCL), 5-304102 (HCL), 5-304103 (HCL), 5-304104 (HCL), 5-304105 (HCL) (7)	G104	S: 5/13/2008	12:25	ME00H5	
09 E00H6	Monitor Well/ Lance Range	L/G	CLP-PEST/P (21), SVOA-SOM (21), VOA-SOM (21)	5-304108 (HCL), 5-304109 (HCL), 5-304110 (Ice Only), 5-304111 (Ice Only) (4)	G205	S: 5/14/2008	18:00	ME00H6	

Shipment for Case Complete? (N) yes	Sample(s) to be used for laboratory QC: E00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 7.6, 7.2, 5, 5°C	Chain of Custody Seal Number: 27922 27924 27633 27923 27632 27634
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

CLP-PEST/P = CLP-Pesticides/Aroclor-SOM, SIM-SOM = CLP-SVOA-SIM-SOM, SVOA-SOM = CLP-SVOA-SOM, TVOA = CLP-TVOA-SIM-SOM, VOA-SOM = CLP-VOA-SOM

TR Number: 5-162075208-051508-0004

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37448
DAS No:
SDG No: E00G3

L

Date Shipped:	5/15/2008
Carrier Name:	UPS
Airbill:	1z6215892210083169
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	5/15 1300	[signature]	5/16/08 10:10
2			
3			
4			

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	~~$524.40~~ $437 ARN 5/16/08
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

	ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
01	E00G3	Monitor Well/ Lance Range	L/G	CLP-PEST/P (21), SVOA-SOM (21), VOA-SOM (21)	5-263879 (HCL), 5-263880 (HCL), 5-263881 (Ice Only), 5-263882 (Ice Only) (4)	G201	S: 5/14/2008	10:10	ME00G3	
02	E00G4	Monitor Well/ Lance Range	L/G	CLP-PEST/P (21), SVOA-SOM (21), VOA-SOM (21)	5-263885 (HCL), 5-263886 (HCL), 5-263887 (Ice Only), 5-263888 (Ice Only) (4)	G202	S: 5/14/2008	10:10	ME00G4	
03	E00G5	Monitor Well/ Lance Range	L/G	CLP-PEST/P (21), SVOA-SOM (21), VOA-SOM (21)	5-304053 (HCL), 5-304054 (HCL), 5-304055 (Ice Only), 5-304056 (Ice Only) (4)	G204	S: 5/14/2008	13:30	ME00G5	
04	E00G6	Monitor Well/ Lance Range	L/G	CLP-PEST/P (21), SVOA-SOM (21), VOA-SOM (21)	5-304059 (HCL), 5-304060 (HCL), 5-304061 (Ice Only), 5-304062 (Ice Only) (4)	G203	S: 5/14/2008	11:15	ME00G6	
05	E00H2	Potable Well/ Lance Range	L/G	CLP-PEST/P (21), SIM-SOM (21), TVOA (21)	5-304071 (HCL), 5-304072 (HCL), 5-304073 (HCL), 5-304074 (HCL), 5-304075 (HCL), 5-304076 (Ice Only), 5-304077 (Ice Only) (7)	G101	S: 5/13/2008	9:55	ME00H2	

Shipment for Case Complete? Yes	Sample(s) to be used for laboratory QC: E00H3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 7, 6, 2, 7, 5, 4,	Chain of Custody Seal Number: 27633, 27922, 27924, 27923, 27632, 27634
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

CLP-PEST/P = CLP-Pesticides/Aroclor-SOM, SIM-SOM = CLP-SVOA-SIM-SOM, SVOA-SOM = CLP-SVOA-SOM, TVOA = CLP-TVOA-SIM-SOM, VOA-SOM = CLP-VOA-SOM

TR Number: 5-162075208-051508-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 37448 and SDG# E00G3. Analyses were performed for eleven aqueous samples that were received on May 16, 2008. The analyses were performed under USEPA Contract # EP-W-05-030. Please note that six sample-shipping coolers were received on May 16. The coolers were measured at 7°C, 5°C, 6°C, 7°C, 7°C and 5°C.

The TR/COC notes the analyses for samples E00H2, E00H3, E00H4 and E00H5 as pesticides, Aroclors, SVOA SIM and TVOA SIM. The laboratory was scheduled for TVOA, TVOA SIM, SVOA, SVOA SIM, pesticides and Aroclors. Per the Region, the laboratory should analyze the samples for TVOA, TVOA SIM, SVOA, SVOA SIM, pesticides and Aroclors.

Sample E00H9 is listed on the TR/COC for TVOA SIM only. The laboratory was scheduled for TVOA and TVOA SIM. Per the Region, the laboratory is to analyze the sample for TVOA and TVOA SIM. Only two VOA vials were received for this sample. One vial will be used for the TVOA analysis and the remaining vial for TVOA SIM analysis, with no remaining sample volume for re-analysis. Per the Region, proceed with analysis of the sample.

The scheduling notification form notes that laboratory QC is required for the VOA analysis. Only two VOA vials were received with those samples requiring VOA analysis. This is insufficient sample volume for laboratory QC. Per the Region, the laboratory will perform laboratory QC for VOA on sample E00H3.

Sample E00H3 is designated on the TR/COC as the sample for laboratory QC. The analyses for this sample are TVOA, TVOA SIM, SVOA, SVOA SIM, pesticides and Aroclors. The scheduling notification form notes that laboratory QC is not required for TVOA SIM. Per the Region, laboratory QC is not required for the TVOA SIM analysis.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis			VOA pH
E00G3	G0754-01A	V			<2
E00G3	G0754-01B		S	P,A	
E00G4	G0754-02A	V			<2
E00G4	G0754-02B		S	P,A	
E00G5	G0754-03A	V			<2
E00G5	G0754-03B		S	P,A	
E00G5DL	G0754-03BDL		S		
E00G6	G0754-04A	V			<2
E00G6	G0754-04B		S	P,A	
E00H2	G0754-05A	TV,TVS			<2

E00H2	G0754-05B			S,SS,P,A	
E00H3	G0754-06A	TV,TVS			<2
E00H3MS	G0754-06AMS	TV			<2
E00H3MSD	G0754-06AMSD	TV			<2
E00H3	G0754-06B			S,SS,P,A	
E00H3MS	G0754-06BMS			S,SS,P,A	
E00H3MSD	G0754-06BMSD			S,SS,P,A	
E00H3	G0754-06C		V		<2
E00H3MS	G0754-06CMS		V		<2
E00H3MSD	G0754-06CMSD		V		<2
E00H4	G0754-07A	TV,TVS			<2
E00H4	G0754-07B			S,SS,P,A	
E00H5	G0754-08A	TV,TVS			<2
E00H5	G0754-08B			S,SS,P,A	
E00H6	G0754-09A		V		<2
E00H6	G0754-09B			S P,A	
E00H8	G0754-10A		V		<2
E00H9	G0754-11A	TV,TVS			<2

TV = Trace Volatiles
TVS = Trace Volatile SIM
V = Low/Medium Volatiles
S = Semivolatiles
SS = Semivolatile SIM
P = Pesticides
A = Aroclors

The analyses were performed using USEPA CLP Multi-Media, Multi-Concentration (SOM01.2) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.

- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

2. Trace Volatile Analysis:

Trap used for instruments V2 and V5: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

The following equation was used to calculate the concentration of target analytes for aqueous samples:

$$\text{Concentration } (\mu\text{g/L}) = \frac{(\text{Amt})(\text{DF})(\text{UF})(25)}{V_o}$$

where: Amt = on-column amount on raw data
DF = Dilution factor
UF = ng unit correction factor
V_o = Sample volume purged (mL)

The following equation was used to calculate the Amt in the previous equations:

$$Amt = \frac{(A_x)(IS)}{(A_{is})(RRF)}$$

where: A_x = area of the characteristic ion for the compound to be measured
A_{is} = area of the characteristic ion for the associated internal standard
IS = concentration of internal standard in ug/L
RRF = relative response factor

DMC recoveries were within the QC limits with the exception of high recovery of 1,1-dichloroethene-d2 and 1,2-dichloroethane-d4 in samples E00H3MS and E00H3MSD and high recovery of 1,2-dichloroethane-d4 in samples E00H4 and E00H5.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries were within the QC limits. Replicate RPDs were within the advisory QC limits with the exception of 1,1-dichloroethene, benzene, toluene and chlorobenzene.

No manual integrations were performed.

No other unusual observation was made for the analysis.

3. Trace Volatile SIM Analysis:

Trap used for instrument V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

The following equation was used to calculate the concentration of target analytes for aqueous samples:

$$\text{Concentration } (\mu g/L) = \frac{(\text{Amt})(\text{DF})(\text{UF})(25)}{V_o}$$

where: Amt = on-column amount on raw data
DF = Dilution factor
UF = ng unit correction factor
V_o = Sample volume purged (mL)

The following equation was used to calculate the Amt in the previous equations:

$$Amt = \frac{(A_x)(IS)}{(A_{is})(RRF)}$$

where: A_x = area of the characteristic ion for the compound to be measured
A_{is} = area of the characteristic ion for the associated internal standard
IS = concentration of internal standard in ug/L
RRF = relative response factor

DMC recoveries were within the QC limits.

No manual integrations were performed.

No unusual observation was made for the analysis.

4. Low/Med Volatile Analysis:

Trap used for instrument V5: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

cis-1,3-Dichloropropene-d4 was detected in method blanks and in samples. The volatile organic deuterated monitoring compound spike solution contains both the cis- and trans-1,3-dichloropropene isomers. cis-1,3-Dichloropropene-d4 is not a dueterated monitoring compound for SOM01.2, while the trans isomer is. The cis isomer is considered a laboratory artifact, and is not reported as a tentatively identified compound.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

The following equation was used to calculate the concentration of target analytes for aqueous samples:

$$\text{Concentration } (\mu\text{g/L}) = \frac{(\text{Amt})(\text{DF})(\text{UF})(5)}{V_o}$$

where: Amt = on-column amount on raw data
DF = Dilution factor
UF = ng unit correction factor
V_o = Sample volume purged (mL)

The following equation was used to calculate the Amt in the previous equations:

$$Amt = \frac{(A_x)(IS)}{(A_{is})(RRF)}$$

where: A_x = area of the characteristic ion for the compound to be measured
A_{is} = area of the characteristic ion for the associated internal standard
IS = concentration of internal standard in ug/L
RRF = relative response factor

DMC recoveries were within the QC limits with the exception of 1,1-dichloroethene-d2 in sample E00G3, low recovery of 1,4-dioxane-d8 in samples E00G4 and E00H6, high recovery of chloroethane-d5 and low recovery of 1,4-dioxane-d8 in sample E00G5 and low recovery of chloroethane-d5 and 1,4-dioxane-d8 in sample E00H8.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries and replicate RPDs were within the advisory QC limits.

For 1,4-dioxane and 1,4-dioxane-d8, the laboratory was unable to meet the minimum average RRF of 0.0050 in the initial calibration. In our experience, this compound will not reliably achieve the SOM method performance criteria due to its high water solubility. This compound is able to be reliably analyzed as an extractable semivolatile organic compound.

Ion 100 was used instead of ion 63 for 1,1-dichloroethene-d2. Ion 100 was used instead of ion 63 due to the interference with target compound 1,1-dichloroethene in the calibration standards.

No manual integrations were performed.

No other unusual observation was made for the analysis.

3. Semivolatile Analysis:

GC column: 30 m x 0.25 mm id (0.5 um film thickness) DB-5MS capillary column

The concentration of target analytes were determined for aqueous samples using the following equation:

$$\text{Concentration (ug/L)} = (\text{Amt})(\text{DF})(\text{Uf})\left(\frac{V_t}{V_i}\right)\left(\frac{1}{V_o}\right)$$

where: Amt = on-column amount on raw data
DF = Dilution Factor
Uf = GPC correction factor
V_t = final extract volume (µL)
V_i = volume injected (µL)
V_o = initial volume of sample extracted (mL)

The following equation was used to calculate the Amt in the previous equations:

$$Amt = \frac{(A_x)(IS)}{(A_{is})(RRF)}$$

where: A_x = area of the characteristic ion for the compound to be measured
A_{is} = area of the characteristic ion for the associated internal standard
IS = concentration of internal standard in ug/L
RRF = relative response factor

DMC recoveries were within the QC limits with the exception of low recovery of 2,4-dichlorophenol-d3 and high recovery of pyrene-d10 in sample E00G5, low recovery of phenol-d5, 4-chloroaniline-d4 and 4,6-dintiro-2-methylphenol-d2 in sample E00G6 and low recovery of 4,6-dintiro-2-methylphenol-d2 in sample E00H5.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries and replicate RPDs were within the advisory QC limits.

To ensure that all target analytes were determined within the instrument calibration range, sample E00G5 was re-analyzed at 5x dilution.

No manual integrations were performed.

No unusual observation was made for the analysis.

4. Semivolatile SIM Analysis:

GC column: 30 m x 0.25 mm id (0.5 um film thickness) DB-5MS capillary column

The concentration of target analytes were determined for aqueous samples using the following equation:

$$\text{Concentration (ug/L)} = (\text{Amt})(\text{DF})(\text{Uf})\left(\frac{V_t}{V_i}\right)\left(\frac{1}{V_o}\right)$$

where: Amt = on-column amount on raw data
DF = Dilution Factor
Uf = GPC correction factor
V_t = final extract volume (µL)
V_i = volume injected (µL)
V_o = initial volume of sample extracted (mL)

The following equation was used to calculate the Amt in the previous equations:

$$Amt = \frac{(A_x)(IS)}{(A_{is})(RRF)}$$

where: A_x = area of the characteristic ion for the compound to be measured
A_{is} = area of the characteristic ion for the associated internal standard
IS = concentration of internal standard in ug/L
RRF = *relative response factor*

DMC recoveries were within the QC limits.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries were within the advisory QC limits with the exception of no recovery of pentachlorophenol in both the matrix spike and matrix spike duplicate. Replicate RPDs were within the advisory QC limits with the exception of pentachlorophenol.

No manual integrations were performed.

No other unusual observation was made for the analysis.

5. Pesticides Analysis:

GC column used: 30 m x 0.53 mm id (0.5 um film thickness) CLPPest and 30 m x 0.53 mm id (0.42 um film thickness) CLPPestII megabore columns

The concentration of target analytes were determined using the following equation for the aqueous samples:

$$\text{Concentration } (\mu g/L) = \frac{(Amt)(DF)(UF)(V_t)}{(V_o * V_i)}$$

where: Amt = Lower value of two Conc
DF = Dilution Factor
UF = Correction Factor
V_t = Volume of final extract (µL)
V_i = Volume of sample injected (µL)
V_o = Volume of sample extracted (mL)

Surrogate recoveries were within the QC limits with the exception of low recovery decachlorobiphenyl in one column for sample E00G5.

Spike recoveries were within the QC limits in the lab control sample.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries were within the advisory QC limits. Replicate RPDs were within the advisory QC limits with the exception of heptachlor in both columns.

Manual integrations were performed on the following:
PEMB4: 4,4'-DDE in the rear column due to M7
TOXAPH1B4: toxaphene in the front column due to M3
TOXAPH2B4: toxaphene in the front column due to M3
TOXAPH5B4: toxaphene in the front column due to M3

INDC1B4: tetrachloro-m-xylene in the front column due to M6
PBLK4A: tetrachloro-m-xylene in the rear column due to M7.

No other unusual observation was made for the analysis.

6. Aroclor Analysis

GC column used: 30 m x 0.53 mm id (0.42 um film thickness) CLPPestII and 30 m x 0.53 mm id (0.5 um film thickness) CLPPest megabore columns

The concentration of target analytes were determined using the following equation for aqueous samples:

$$\text{Concentration } (\mu g/L) = \frac{(Amt)(DF)(UF)(V_t)}{(V_o * V_i)}$$

where: Amt = Lower value of two Conc
DF = Dilution Factor
UF = Correction Factor
V_t = Volume of final extract (µL)
V_i = Volume of sample injected (µL)
V_o = Volume of sample extracted (mL)

Surrogate recoveries were within the QC limits.

Spike recoveries were within the QC limits in the lab control sample.

Matrix spike and matrix spike duplicate were performed on sample E00H3. Spike recoveries and replicate RPDs were within the advisory QC limits.

No manual integrations were performed.

No unusual observation was made for the analysis.

All of the submittals to the region are originals other than logbook pages. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. Tunes, calibration verifications and initial calibrations that are shared among several cases are photocopies indicating the location of the originals.

I certify that this Sample Data Package is in compliance with the terms and condition of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
06/05/08

Agnes Ng

From: "jewell, jesse" <jjewell3@fedcsc.com>
To: "Agnes Ng" <agnes_ng@mitkem.com>
Cc: "Range, Lance" <Lance.Range@illinois.gov>; "Wagner, Mark" <Mark.Wagner@illinois.gov>; "Carlene Thomas" <thomas.carlene@epa.gov>; "Howard Pham" <pham.howard@epa.gov>; "Warren Layne" <layne.warren@epa.gov>
Sent: Tuesday, May 20, 2008 11:46 AM
Attach: G0754 TR.pdf
Subject: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple | FINAL

Agnes,

Summary Start
-Discrepancies with tags, jars, and/or TR/COC-
Issue 1 Per the TR/COC analysis key, samples E00H2, -H3, -H4 and -H5 are listed for PEST, ARO, SVSIM, and TVSIM, however per scheduling SVOA, SVSIM, ARO, PEST, TVOA, and TVSIM are requested. Should the analysis on the TR/COC for these samples also include TVOA and SVOA analysis?
Resolution 1: Per Region 5, the laboratory shall analyze samples E00H2, -H4 and -H5 for PEST, ARO, SVOA, SVSIM, TVOA and TVSIM and use sample E00H3 for laboratory QC for PEST, ARO, VOA, SVOA, SVSIM and TVOA. Please also note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Insufficient sample volume-
Issue 2: Sample E00H9 is listed in the TR/COC analysis key for TVSIM only. The laboratory only received 2 vials for this sample and depending on if this sample is to be analyzed for TVOA and TVSIM, the lab indicates it could use 1 vial for TVOA and 1 vial for TVSIM, however there would be no remaining volume for re-analysis if requested.
Resolution 2: Per Region 5, the laboratory shall analyze sample E00H9 for TVOA and TVSIM using the 2 jars received, note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: Per Scheduling, laboratory QC is required on the VOA samples; however, the laboratory only received 2 vials for each VOA sample which is insufficient volume for laboratory QC.
Resolution 3: Per Region 5, the laboratory shall analyze sample E00H3 for VOA analysis and laboratory QC, in addition to PEST, ARO, SVOA, SVSIM, TVOA. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Insufficient/inappropriate designation of laboratory QC-
Issue 4 Sample E00H3 is designated on the TR/COC for laboratory QC for PEST, ARO, SVSIM, and TVSIM, however per Scheduling, laboratory QC is required on SVOA, SVSIM, PEST, ARO, and TVOA only and not TVSIM.
Resolution 4: Per Region 5, the laboratory does not need to perform laboratory QC on TVSIM and will note the issue in the SDG Narrative and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions or problems.

Thanks,

Jesse

Jesse Jewell
Environmental Coordinator
Regions 4 & 5
JJewell3@fedcsc.com
Computer Sciences Corporation
1-703-818-4184

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5/20/08 9:40 AM Phone conversation between Warren Layne, Region 5 and Jesse Jewell, SMO. Jesse asked Warren if the resolutions provided by the sampler are acceptable to the Region. Warren said to vote and proceed according to the samplers resolutions.

From: jewell, jesse
Sent: Monday, May 19, 2008 5:02 PM
To: 'Carlene Thomas'; 'Howard Pham'; 'Warren Layne'
Subject: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple

Warren,

MITKEM is reporting the following 4 issues for Case 37488. Please advise is the samplers response is acceptable to the Region.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: Per the TR/COC analysis key, samples E00H2, -H3, -H4 and -H5 are listed for PEST, ARO, SVSIM, and TVS M, however per scheduling SVOA, SVSIM, ARO, PEST, TVOA, and TVSIM are requested. Should the analysis on the TR/COC for these samples also include TVOA and SVOA analysis?
Sampler Response: "#1 lets go ahead and include TVOA and SVOA analysis."

-Insufficient sample volume-
Issue 2: Sample E00H9 is listed in the TR/COC analysis key for TVSIM only. The laboratory only received 2 vials for this sample and depending on if this sample is to be analyzed for TVOA and TVSIM, the lab indicates it could use 1 vial for TVOA and 1 vial for TVSIM, however there would be no remaining volume for re-analysis if requested.
Sampler Response: #2 run the sample E00H9 for TVOA and TVSIM. It is noted that there will not be remaining volume for a re-analysis

Issue 3: Per Scheduling, laboratory QC is required on the VOA samples; however, the laboratory only received 2 vials for each VOA sample which is insufficient volume for laboratory QC.
Sampler Response: "analyze sample E00H3 for the analysis and QC."

-Insufficient/inappropriate designation of laboratory QC-
Issue 4: Sample E00H3 is designated on the TR/COC for laboratory QC for PEST, ARO, SVSIM, and TVSIM, however per Scheduling, laboratory QC is required on SVOA, SVSIM, PEST, ARO, and TVOA only and not TVSIM.
Sampler Response: "forgo the QC on TVSIM"

Please let me know if you need any additional information:

Thanks,

Jesse

Jesse Jewell
Environmental Coordinator
Regions 4 & 5
JJewell3@fedcsc.com
Computer Sciences Corporation
1-703-818-4184

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From: Range, Lance [mailto:Lance.Range@illinois.gov]
Sent: Monday, May 19, 2008 4:06 PM
To: jewell, jesse
Subject: RE: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple

Jesse
Okay forgo the QC on TVSIM. And yes, analyze sample E00H3 for the analysis and QC.

Thanks

Lance L. Range
Illinois Environmental Protection Agency
1021 N. Grand Avenue East
Springfield, IL 62794
217-524-1661
lance.range@illinois.gov

From: jewell, jesse [mailto:jjewell3@fedcsc.com]
Sent: Monday, May 19, 2008 3:04 PM
To: Range, Lance
Cc: Wagner, Mark; Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple

Lance,

For Issue #4, TVSIM MS/MSD is not an option under the current SOW. Would you like to forgo laboratory QC on the TVSIM samples? Also, just to clarify, you would like to analyze sample E00H3 for the analysis and laboratory QC for VOA, PEST, ARO, SVOA, SVSIM and TVOA?

Thanks,

Jesse

Jesse Jewell
Environmental Coordinator
Regions 4 & 5
JJewell3@fedcsc.com
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1-703-818-4184

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From: Range, Lance [mailto:Lance.Range@illinois.gov]
Sent: Monday, May 19, 2008 3:09 PM
To: jewell, jesse

Cc: Wagner, Mark
Subject: RE: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple

#1 lets go ahead and include TVOA and SVOA analysis.

#2 run the sample E00H9 for TVOA and TVSIM. It is noted that there will not be remaining volume for a re-analysis

#3 Use sample E00H3 for QC

#4 Use sample E00H3 for QC on all analysis.

I hope this helps and let me know if anything else comes up.

Lance L. Range
Illinois Environmental Protection Agency
1021 N. Grand Avenue East
Springfield, IL 62794
217-524-1661
lance.range@illinois.gov

From: jewell, jesse [mailto:jjewell3@fedcsc.com]
Sent: Monday, May 19, 2008 1:52 PM
To: Wagner, Mark; Range, Lance
Cc: Carlene Thomas; Howard Pham; Warren Layne
Subject: Region 05 | Case 37448 | Lab MITKEM | Issue Multiple

Mark,

MITKEM is reporting the following 5 issues for Case 37448. Please note the attached TR/COCs and advise how the laboratory should proceed.

-Discrepancies with tags, jars, and/or TR/COC-
Issue 1: Per the TR/COC analysis key, samples E00H2, -H3, -H4 and -H5 are listed for PEST, ARO, SVSIM, and TVSIM, however per scheduling SVOA, SVSIM, ARO, PEST, TVOA, and TVSIM are requested. Should the analysis on the TR/COC for these samples also include TVOA and SVOA analysis?

-Insufficient sample volume-
Issue 2: Sample E00H9 is listed in the TR/COC analysis key for TVSIM only. The laboratory only received 2 vials for this sample and depending on if this sample is to be analyzed for TVOA and TVSIM, the lab indicates it could use 1 vial for TVOA and 1 vial for TVSIM, however there would be no remaining volume for re-analysis if requested.

Issue 3: Per Scheduling, laboratory QC is required on the VOA samples; however, the laboratory only received 2 vials for each VOA sample which is insufficient volume for laboratory QC.

-Insufficient/inappropriate designation of laboratory QC-
Issue 4: Sample E00H3 is designated on the TR/COC for laboratory QC for PEST, ARO, SVSIM, and TVSIM, however per Scheduling, laboratory QC is required on SVOA, SVSIM, PEST, ARO, and TVOA only and not TVSIM.

Issue 5: No sample is designated for laboratory QC on the TR/COC for SVOA analysis. Please note this issue is dependent on the resolution provided for issue #1.

Please let me know if you need any additional information.

Thanks,

Jesse

Jesse Jewell
Environmental Coordinator
Regions 4 & 5
JJewell3@fedcsc.com
Computer Sciences Corporation
1-703-818-4184

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From: Agnes Ng [mailto:agnes_ng@mitkem.com]
Sent: Monday, May 19, 2008 11:13 AM
To: jewell, jesse
Subject: Case 37448

Hi Jesse,

I have a couple of issues:

1. Sample E00H3 is designated as the sample for laboratory QC. The analyses for this sample are TVOA, TVOA SIM, SVOA, SVOA SIM, Pesticides and Aroclors. Per the SOW, there is no MS/MSD for TVOA SIM. Are we to proceed with TVOA SIM laboratory QC?

2. The scheduling notification form notes that laboratory QC is required for VOA analysis. For the samples with VOA analysis, we only received two vials for each sample. This is insufficient sample volume for laboratory QC. How are we to proceed?

3. The analysis listed for sample E00H9 is TVOA and TVOA SIM. We only received two VOA vials for this sample. We can use one vial for the TVOA analysis and the second vial for TVOA SIM analysis. There will be no remaining sample volume remaining for re-analysis if re-analysis is required.

I have attached the TRs.

Thanks.

Agnes Ng
CLP Project Manager
Mitkem Laboratories
A Division of Spectrum Analytical, Featuring Hanibal Technology
(P) 401-732-3400 x316
(F) 401-732-3499

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2A - FORM II VOA-1

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKD5	88	114	66	85	87	88	91
02	E00G3	72	71	50 *	114	88	85	95
03	E00G4	85	93	66	97	88	83	92
04	E00G5	107	144 *	83	67	86	83	93
05	E00G6	88	109	71	114	91	89	93
06	E00H5	80	109	68	79	88	86	93
07	E00H3	93	54 *	80	69	89	85	91
08	VBLKP5	120	110	72	85	96	92	99
09	E00H3	123	105	70	101	106	105	110
10	E00H3MS	117	102	104	109	96	94	101
11	E00H3MSD	81	85	87	84	90	86	92
12	VHBLKP5	96	93	74	78	94	91	97

			QC LIMITS
VDMC1	(VCL)	= Vinyl chloride-d3	(65-131)
VDMC2	(CLA)	= Chloroethane-d5	(71-131)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT)	= 2-Butanone-d5	(49-155)
VDMC5	(CLF)	= Chloroform-d	(78-121)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN)	= Benzene-d6	(77-124)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKE5	85	93	94	78	77	92	92	0
02	E00G3	88	97	97	126	76	97	91	1
03	E00G4	83	92	93	83	3 *	96	95	1
04	E00G5	85	92	92	68	19 *	93	91	2
05	E00G6	86	95	93	123	58	96	94	0
06	E00H6	84	93	91	74	43 *	95	93	1
07	E00H8	86	92	90	66	6 *	90	93	2
08	VBLKP5	95	101	99	92	85	99	95	0
09	E00H3	100	110	110	106	98	109	107	0
10	E00H3MS	93	101	99	107	114	102	102	0
11	E00H3MSD	88	93	94	88	85	94	96	0
12	VHBLKP5	90	96	94	83	104	93	95	0

			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(79-124)
VDMC9	(TOL)	= Toluene-d8	(77-121)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(73-121)
VDMC11	(HEX)	= 2-Hexanone-d5	(28-135)
VDMC12	(DXE)	= 1,4-Dioxane-d8	(50-150)
VDMC13	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14	(DCZ)	= 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: V5 GC Column : DB-624 ID: 0.25 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50.0000	0.0000	40.8157	82		61-145
Benzene	50.0000	0.0000	48.1380	96		76-127
Trichloroethene	50.0000	0.0000	47.6260	95		71-120
Toluene	50.0000	0.0000	48.4661	97		76-125
Chlorobenzene	50.0000	0.0000	50.9815	102		75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0000	36.9393	74		10		14	61-145
Benzene	50.0000	45.3023	91		5		11	76-127
Trichloroethene	50.0000	45.1787	90		5		14	71-120
Toluene	50.0000	45.5658	91		6		13	76-125
Chlorobenzene	50.0000	48.8227	98		4		13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKD5

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: V5I7418.D Lab Sample ID: MB-36568

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/19/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 13:28

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00G3	G0754-01A	V5I7419.D	13:54
02	E00G4	G0754-02A	V5I7420.D	14:21
03	E00G5	G0754-03A	V5I7421.D	15:25
04	E00G6	G0754-04A	V5I7422.D	15:51
05	E00H6	G0754-09A	V5I7423.D	16:18
06	E00H8	G0754-10A	V5I7424.D	16:45

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKP5

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: V5I7702.D Lab Sample ID: MB-36614

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/23/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 16:11

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00H3	G0754-06C	V5I7703.D	16:38
02	E00H3MS	G0754-06CMS	V5I7704.D	17:05
03	E00H3MSD	G0754-06CMSD	V5I7705.D	17:32
04	VHBLKP5	VHBLKP5	V5I7710A.D	20:12

COMMENTS:

SOM01.2 (6/2007)

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/19/2008 05/19/2008

EPA Sample No. (VSTD#####): VSTD050D5 Date Analyzed: 05/19/2008

Lab File ID (Standard): V5I7411.D Time Analyzed: 10:19

Instrument ID: V5 Heated Purge: (Y/N) N

	IS1 (CBZ)			IS2 (DFB)			IS3 (DCB)		
	AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
12 HOUR STD	721677		8.922		879947		5.844		402078		11.639	
UPPER LIMIT	1443354		9.422		1759894		6.344		804156		12.139	
LOWER LIMIT	360839		8.422		439974		5.344		201039		11.139	
EPA SAMPLE NO.												
01 VBLKD5	933181		8.915		1120808		5.838		500808		11.645	
02 E00G3	733026		8.916		913991		5.839		410523		11.645	
03 E00G4	642087		8.922		775812		5.844		343418		11.651	
04 E00G5	767897		8.921		954556		5.844		423410		11.650	
05 E00G6	745256		8.916		896897		5.838		399924		11.645	
06 E00H6	801473		8.925		980809		5.835		442318		11.642	
07 E00H8	776680		8.916		937420		5.838		415823		11.645	

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/23/2008 05/23/2008

EPA Sample No.(VSTD#####): VSTD050P5 Date Analyzed: 05/23/2008

Lab File ID (Standard): V5I7701.D Time Analyzed: 15:42

Instrument ID: V5 Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	563844	8.921	677905	5.843	309374	11.638
UPPER LIMIT	1127688	9.421	1355810	6.343	618748	12.138
LOWER LIMIT	281922	8.421	338953	5.343	154687	11.138
EPA SAMPLE NO.						
01 VBLKP5	530455	8.915	651332	5.838	279393	11.644
02 E00H3	486718	8.915	581318	5.838	253324	11.644
03 E00H3MS	522914	8.914	641454	5.837	268849	11.643
04 E00H3MSD	550299	8.924	670397	5.835	280521	11.641
05 VHBLKP5	526821	8.923	640510	5.845	273432	11.652

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

2A - FORM II VOA-1

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL)	#	VDMC2 (CLA)	#	VDMC3 (DCE)	#	VDMC4 (BUT)	#	VDMC5 (CLF)	#	VDMC6 (DCA)	#	VDMC7 (BEN)	#
01	VBLK2T	78		74		76		99		112		128		100	
02	E00H2	83		80		74		82		109		120		105	
03	E00H9	80		82		76		78		110		126		103	
04	E00H3	82		86		81		83		113		129		103	
05	E00H3MS	78		81		112	*	91		112		131	*	102	
06	E00H3MSD	92		88		116	*	100		113		137	*	100	
07	E00H4	90		80		74		93		114		140	*	101	
08	E00H5	81		81		75		95		113		136	*	103	
09	VBLKM5	123		78		63		95		92		86		94	
10	VHBLKM5	115		77		57		118		90		83		96	

			QC LIMITS
VDMC1	(VCL)	= Vinyl chloride-d3	(65-131)
VDMC2	(CLA)	= Chloroethane-d5	(71-131)
VDMC3	(DCE)	= 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT)	= 2-Butanone-d5	(49-155)
VDMC5	(CLF)	= Chloroform-d	(78-121)
VDMC6	(DCA)	= 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN)	= Benzene-d6	(77-124)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Level (TRACE or LOW) TRACE

	SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (TCA) #	VDMC13 (DCZ) #	VDMC14 #	TOT OUT
01	VBLK27	90	104	101	84	81	101		0
02	E00H2	90	109	103	61	77	96		0
03	E00H9	90	108	98	49	78	99		0
04	E00H3	93	107	98	65	84	102		0
05	E00H3MS	90	106	91	68	81	105		2
06	E00H3MSD	97	106	105	79	87	102		2
07	E00H4	92	104	106	81	86	102		1
08	E00H5	93	106	111	79	85	102		1
09	VBLKM5	88	93	91	94	90	95		0
10	VHBLKM5	91	93	86	100	92	93		0

			QC LIMITS
VDMC8	(DPA)	= 1,2-Dichloropropane-d6	(79-124)
VDMC9	(TOL)	= Toluene-d8	(77-121)
VDMC10	(TDP)	= trans-1,3-Dichloropropene-d4	(73-121)
VDMC11	(HEX)	= 2-Hexanone-d5	(28-135)
VDMC12	(TCA)	= 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC13	(DCZ)	= 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: V2 GC Column : DB-624 ID: 0.25 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	5.0000	0.0000	3.2616	65		61-145
Benzene	5.0000	0.0000	4.8124	96		76-127
Trichloroethene	5.0000	0.0000	5.2180	104		71-120
Toluene	5.0000	0.0000	4.9846	100		76-125
Chlorobenzene	5.0000	0.0000	5.2806	106		75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5.0000	3.7874	76		16	*	14	61-145
Benzene	5.0000	5.7451	115		18	*	11	76-127
Trichloroethene	5.0000	5.9970	120		14		14	71-120
Toluene	5.0000	5.9548	119		17	*	13	76-125
Chlorobenzene	5.0000	6.3866	128		19	*	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 4 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2T

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: V2K4513.D Lab Sample ID: MB-36553

Instrument ID: V2

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/19/2008

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 10:42

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00H2	G0754-05A	V2K4514.D	11:21
02	E00H9	G0754-11A	V2K4515.D	11:52
03	E00H3	G0754-06A	V2K4516.D	12:24
04	E00H3MS	G0754-06AMS	V2K4517.D	12:55
05	E00H3MSD	G0754-06AMSD	V2K4518.D	13:26
06	E00H4	G0754-07A	V2K4519.D	13:58
07	E00H5	G0754-08A	V2K4520.D	14:30

COMMENTS:

SOM01.2 (6/2007)

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

V3LKM5

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: V5I7642.D Lab Sample ID: MB-36682

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/22/2008

Level: (TRACE or LOW/MED) TRACE Time Analyzed: 17:11

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKM5	VHBLKM5	V5I7652.D	22:23

COMMENTS:

SOM01.2 (6/2007)

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 04/16/2008 04/16/2008

EPA Sample No.(VSTD#####): VSTD0052T Date Analyzed: 05/19/2008

Lab File ID (Standard): V2K4512.D Time Analyzed: 9:39

Instrument ID: V2 Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	528943	10.118	750340	6.537	207643	13.009
UPPER LIMIT	740520	10.448	1050476	6.867	290700	13.339
LOWER LIMIT	317366	9.788	450204	6.207	124586	12.679
EPA SAMPLE NO.						
01 VBLK2T	508736	10.119	754889	6.537	183552	12.999
02 E00H2	494144	10.130	769062	6.538	168611	13.010
03 E00H9	494707	10.128	754070	6.546	165090	13.018
04 E00H3	513376	10.128	778553	6.546	179792	13.008
05 E00H3MS	506906	10.128	748404	6.546	172227	13.008
06 E00H3MSD	543173	10.126	802465	6.544	188827	13.017
07 E00H4	489169	10.120	708074	6.538	171036	13.010
08 E00H5	507245	10.117	757692	6.535	174750	13.008

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/22/2008 05/22/2008

EPA Sample No.(VSTD#####): VSTD005M5 Date Analyzed: 05/22/2008

Lab File ID (Standard): V5I7641.D Time Analyzed: 16:20

Instrument ID: V5 Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	357626	8.921	464001	5.832	169961	11.639
UPPER LIMIT	500676	9.251	649601	6.162	237945	11.969
LOWER LIMIT	214576	8.591	278401	5.502	101977	11.309
EPA SAMPLE NO.						
01 VBLKM5	327168	8.922	433630	5.833	149098	11.651
02 VHBLKM5	303439	8.924	414607	5.835	142385	11.653

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

2E - FORM II VOA-SIM1

TRACE SIM (WATER) VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

	EPA SAMPLE NO.	VDMC1 (DCA) #	VDMC2 (TCA) #	VDMC3 #	VDMC4 #	VDMC5 #	VDMC6 #	VDMC7 #
01	VBLK2V	99	92					
02	E00H2	99	94					
03	E00H3	102	98					
04	E00H4	102	97					
05	E00H5	105	100					
06	E00H9	105	98					
07	VHBLK2V	105	98					

		QC LIMITS
VDMC1	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC2	(TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2F - FORM II VOA-SIM2

TRACE SIM (WATER) VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

	SAMPLE NO. / SAMPLE NO.	VDMC8 #	VDMC9 #	VDMC10 #	VDMC11 #	VDMC12 #	VDMC13 #	VDMC14 #	TOT OUT
01	VBLK2V								0
02	E00H2								0
03	E00H3								0
04	E00H4								0
05	E00H5								0
06	E00H9								0
07	VBBLK2V								0

		QC LIMITS
VDMC1	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC3	(TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

4B - FORM IV VOA-SIM
TRACE VOLATILE (WATER) SIM METHOD
BLANK SUMMARY

EPA SAMPLE NO.
VBLK2V

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: V2K4536.D Lab Sample ID: MB-36594

Instrument ID: V2

Date Analyzed: 05/20/2008

Time Analyzed: 12:01

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00H2	G0754-05A	V2K4537.D	12:33
02	E00H3	G0754-06A	V2K4538.D	13:04
03	E00H4	G0754-07A	V2K4539.D	13:35
04	E00H5	G0754-08A	V2K4540.D	14:06
05	E00H9	G0754-11A	V2K4541.D	14:37
06	VHBLK2V	VHBLK2V	V2K4542.D	15:08

COMMENTS:

8B - FORM VIII VOA-SIM

TRACE VOLATILE (WATER) SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 05/20/2008 05/20/2008

EPA Sample No.(VSTD0.5##): VSTD0.52V Date Analyzed: 05/20/2008

Lab File ID (Standard): V2K4533.D Time Analyzed: 10:21

Instrument ID: V2 Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	154025	10.114	244677	6.549	56963	13.013
UPPER LIMIT	215635	10.444	342548	6.879	79748	13.343
LOWER LIMIT	92415	9.784	146806	6.219	34178	12.683
EPA SAMPLE NO.						
01 VBLK2V	192883	10.115	314790	6.539	70786	13.014
02 E00H2	166827	10.116	273728	6.539	60140	13.015
03 E00H3	164279	10.116	269147	6.550	59648	13.015
04 E00H4	158610	10.131	258211	6.549	57980	13.030
05 E00H5	169819	10.132	270996	6.549	60427	13.031
06 E00H9	162865	10.132	262199	6.550	59147	13.031
07 VHBLK2V	161149	10.131	259778	6.549	59038	13.030

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = + 0.33 minutes of internal standard RT

RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an ast

2G - FORM II SV-1

WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

	EPA SAMPLE NO.	SDMC1 (PHL) #	SDMC2 (BCE) #	SDMC3 (2CP) #	SDMC4 (4MP) #	SDMC5 (NBZ) #	SDMC6 (2NP) #	SDMC7 (DCP) #	SDMC8 (4CA) #
01	SBLK2A	74	78	76	72	79	81	75	54
02	E00G3	82	85	86	64	86	85	81	34
03	E00G4	80	78	81	78	78	78	76	34
04	E00G5	60	80	88	70	81	79	27 *	49
05	E00G6	23 *	67	58	42	65	56	56	1 *
06	E00H2	73	74	76	76	76	78	77	67
07	E00H3	74	70	72	69	73	72	71	56
08	E00H3MS	64	67	63	70	65	63	62	45
09	E00H3MSD	83	79	77	81	75	76	75	52
10	E00H4	74	77	78	71	76	75	74	63
11	E00H5	47	49	46	46	49	47	45	1
12	E00H6	67	71	70	66	70	67	68	54
13	E00G5DL	62	72	65	46	68	67	37 D	48

			QC LIMITS
SDMC1	(PHL)	= Phenol-d5	(39-106)
SDMC2	(BCE)	= Bis(2-chloroethyl)ether-d8	(40-105)
SDMC3	(2CP)	= 2-Chlorophenol-d4	(41-106)
SDMC4	(4MP)	= 4-Methylphenol-d8	(25-111)
SDMC5	(NBZ)	= Nitrobenzene-d5	(43-108)
SDMC6	(2NP)	= 2-Nitrophenol-d4	(40-108)
SDMC7	(DCP)	= 2,4-Dichlorophenol-d3	(37-105)
SDMC8	(4CA)	= 4-Chloroaniline-d4	(1-145)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

SOM01.2 (6/2007)

2H - FORM II SV-2

WATER SEMIVOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

I Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

	EPA SAMPLE NO.	SDMC9 (DMP) #	SDMC10 (ACY) #	SDMC11 (4NP) #	SDMC12 (FLR) #	SDMC13 (NMP) #	SDMC14 (ANC) #	SDMC15 (PYR) #	SDMC16 (BAP) #	TOT OUT
01	SBLK2A	88	84	66	84	57	81	97	85	0
02	E00G3	89	90	73	87	59	73	100	46	0
03	E00G4	87	84	59	82	49	76	107	42	0
04	E00G5	88	86	59	86	42	79	129 *	83	2
05	E00G6	64	56	37	61	7 *	57	89	46	3
06	E00H2	82	80	61	80	27	76	107	79	0
07	E00H3	79	73	56	74	25	69	97	78	0
08	E00H3MS	76	70	68	72	34	64	94	74	0
09	E00H3MSD	85	81	68	79	35	70	97	78	0
10	E00H4	83	80	51	77	31	77	98	81	0
11	E00H5	54	48	40	51	21 *	53	67	59	1
12	E00H6	77	70	51	71	24	67	96	71	0
13	E00G5DL	72	67	46	63	21 D	62	70	59	2

			QC LIMITS
SDMC9	(DMP)	= Dimethylphthalate-d6	(47-114)
SDMC10	(ACY)	= Acenaphthylene-d8	(41-107)
SDMC11	(4NP)	= 4-Nitrophenol-d4	(33-116)
SDMC12	(FLR)	= Fluorene-d10	(42-111)
SDMC13	(NMP)	= 4,6-Dinitro-2-methylphenol-d2	(22-104)
SDMC14	(ANC)	= Anthracene-d10	(44-110)
SDMC15	(PYR)	= Pyrene-d10	(52-119)
SDMC16	(BAP)	= Benzo(a)pyrene-d12	(32-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D EMC diluted out

3C - FORM III SV-1

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: S2 GC Column : DB-5MS ID: 0.25 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
Phenol	40.0000	0.0000	26.0126	65		12-110
2-Chlorophenol	40.0000	0.0000	24.4971	61		27-123
N-Nitroso-di-n-propylamine	40.0000	0.0000	25.1419	63		41-116
4-Chloro-3-methylphenol	40.0000	0.0000	26.7931	67		23-97
Acenaphthene	40.0000	0.0000	25.1714	63		46-118
4-Nitrophenol	40.0000	0.0000	25.9366	65		10-80
2,4-Dinitrotoluene	40.0000	0.0000	26.6022	67		24-96
Pentachlorophenol	40.0000	0.0000	19.8179	50		9-103
Pyrene	40.0000	0.0000	23.8101	60		26-127

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Phenol	40.0000	29.2180	73		12		42	12-110
2-Chlorophenol	40.0000	28.7095	72		17		40	27-123
N-Nitroso-di-n-propylamine	40.0000	29.6187	74		16		38	41-116
4-Chloro-3-methylphenol	40.0000	30.4445	76		13		42	23-97
Acenaphthene	40.0000	28.2209	71		12		31	46-118
4-Nitrophenol	40.0000	27.6867	69		6		50	10-80
2,4-Dinitrotoluene	40.0000	28.6843	72		7		38	24-96
Pentachlorophenol	40.0000	18.5176	46		8		50	9-103
Pyrene	40.0000	25.1691	63		5		31	26-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

COMMENTS:

4C - FORM IV SV

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK2A

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: S2F7612.D Lab Sample ID: MB-36557

Instrument ID: S2 Date Extracted: 05/19/2008

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/27/2008

Level: (LOW/MED) LOW Time Analyzed: 19:58

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00G3	G0754-01B	S2F7613.D	05/27/2008
02	E00G4	G0754-02B	S2F7614.D	05/27/2008
03	E00G5	G0754-03B	S2F7615.D	05/27/2008
04	E00G6	G0754-04B	S2F7616.D	05/27/2008
05	E00H2	G0754-05B	S2F7617.D	05/27/2008
06	E00H3	G0754-06B	S2F7618.D	05/27/2008
07	E00H3MS	G0754-06BMS	S2F7619.D	05/27/2008
08	E00H3MSD	G0754-06BMSD	S2F7620.D	05/28/2008
09	E00H4	G0754-07B	S2F7621.D	05/28/2008
10	E00H5	G0754-08B	S2F7622.D	05/28/2008
11	E00H6	G0754-09B	S2F7623.D	05/28/2008
12	E00G5DL	G0754-03BDL	S2F7632.D	05/28/2008

COMMENTS:

SOM01.2 (6/2007)

8D - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/27/2008 05/27/2008

EPA Sample No.(SSTD020##): SSTD0202P Date Analyzed: 05/27/2008

Lab File ID (Standard): S2F7611.D Time Analyzed: 18:53

Instrument ID: S2

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	25937	6.079	107675	8.031	58993	10.84
UPPER LIMIT	51874	6.579	215350	8.531	117986	11.34
LOWER LIMIT	12969	5.579	53838	7.531	29497	10.34
EPA SAMPLE NO.						
01 SBLK2A	32564	6.079	135182	8.020	70699	10.830
02 E00G3	32841	6.079	134491	8.020	68538	10.829
03 E00G4	32784	6.078	136243	8.019	69669	10.829
04 E00G5	36379	6.078	157765	8.019	78711	10.828
05 E00G6	33734	6.078	145548	8.019	79094	10.829
06 E00H2	32537	6.079	134822	8.020	70920	10.829
07 E00H3	36607	6.079	153837	8.030	81975	10.829
08 E00H3MS	33974	6.081	142282	8.022	75014	10.832
09 E00H3MSD	31276	6.082	131699	8.022	70024	10.832
10 E00H4	32665	6.079	141947	8.020	76001	10.829
11 E00H5	38350	6.069	163971	8.020	90096	10.830
12 E00H6	36667	6.068	157350	8.020	85696	10.829

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/27/2008 05/27/2008

EPA Sample No.(SSTD020##): SSTD0202P Date Analyzed: 05/27/2008

Lab File ID (Standard): S2F7611.D Time Analyzed: 18:53

Instrument ID: S2

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	96321	13.232	114909	16.813	71813	18.368
UPPER LIMIT	192642	13.732	229818	17.313	143626	18.868
LOWER LIMIT	48161	12.732	57455	16.313	35907	17.868
EPA SAMPLE NO.						
01 SBLK2A	126416	13.221	124261	16.803	94436	18.369
02 E00G3	122391	13.221	109017	16.803	62942	18.347
03 E00G4	121052	13.220	96046	16.802	49626	18.357
04 E00G5	127935	13.230	86662	16.801	38669	18.356
05 E00G6	132387	13.231	104434	16.802	47555	18.357
06 E00H2	121415	13.221	103360	16.803	51367	18.357
07 E00H3	140034	13.231	120402	16.802	58006	18.346
08 E00H3MS	131173	13.223	118049	16.805	59025	18.371
09 E00H3MSD	122184	13.223	117393	16.805	58312	18.349
10 E00H4	130506	13.221	125089	16.802	66168	18.347
11 E00H5	149404	13.221	144924	16.803	69972	18.347
12 E00H6	143021	13.220	133291	16.802	73623	18.357

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/27/2008 05/27/2008

EPA Sample No.(SSTD020##): SSTD0202R Date Analyzed: 05/28/2008

Lab File ID (Standard): S2F7631.D Time Analyzed: 12:48

Instrument ID: S2

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	26130	5.982	105082	7.934	55349	10.733
UPPER LIMIT	52260	6.482	210164	8.434	110698	11.233
LOWER LIMIT	13065	5.482	52541	7.434	27675	10.233
EPA SAMPLE NO.						
01 E00G5DL	47766	5.982	193942	7.923	98171	10.733

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8D - FORM VIII SV-2

SEMIVOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/27/2008 05/27/2008

EPA Sample No.(SSTD020##): SSTD0202R Date Analyzed: 05/28/2008

Lab File ID (Standard): S2F7631.D Time Analyzed: 12:48

Instrument ID: S2

	IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
12 HOUR STD	89039		13.124		89272		16.727		49220		18.261	
UPPER LIMIT	178078		13.624		178544		17.227		98440		18.761	
LOWER LIMIT	44520		12.624		44636		16.227		24610		17.761	
EPA SAMPLE NO.												
C1 E00G5DL	156800		13.124		144042		16.727		90768		18.250	

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

JUN 0 6 2008

2L - FORM II SV-SIM1

WATER SEMIVOLATILE SIM DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

	EPA SAMPLE NO.	SDMC17 (FLN)	#	SDMC18 (2MN)	#	TOT OUT
01	SBLK4K	89		87		0
02	E0CH2	83		96		0
03	E0CH3	85		102		0
04	E0CH3MS	97		97		0
05	E0CH3MSD	99		96		0
06	E0CH4	82		99		0
07	E0CH5	71		76		0

		QC LIMITS
SDMC17	(FLN) = Fluoranthene-d10	(50-150)
SDMC18	(2MN) = 2-Methylnaphthalene-d10	(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D DMC diluted out

SOM01.2 (6/2007)

0591

3E - FORM III SIM1

WATER SEMIVOLATILE SIM MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: S4 GC Column : DB-5MS ID: 0.25 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
Pentachlorophenol	0.4000	0.0000	0.0000	0	*	9-103
Acenaphthene	0.4000	0.0000	0.3629	91		46-118
Pyrene	0.4000	0.0000	0.5013	125		26-127

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
Pentachlorophenol	0.4000	0.0000	0	*			50	9-103
Acenaphthene	0.4000	0.3683	92		1		31	46-118
Pyrene	0.4000	0.5044	126		1		31	26-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 3 outside limits

Spike Recovery: 2 out of 6 outside limits

COMMENTS:

4D - FORM IV SV-SIM

SEMIVOLATILE SIM METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK4K

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: S4C6891.D Lab Sample ID: MB-36558

Instrument ID: S4 Date Extracted: 05/19/2008

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 05/28/2008

Time Analyzed: 12:19

Extraction: (Type) CONT GPC Cleanup: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00H2	G0754-05B	S4C6892.D	05/28/2008
02	E00H3	G0754-06B	S4C6893.D	05/28/2008
03	E00H3MS	G0754-06BMS	S4C6894.D	05/28/2008
04	E00H3MSD	G0754-06BMSD	S4C6895.D	05/28/2008
05	E00H4	G0754-07B	S4C6896.D	05/28/2008
06	E00H5	G0754-08B	S4C6897.D	05/28/2008

COMMENTS:

SOM01.2 (6/2007)

8E - FORM VIII SV-SIM1

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/19/2008 05/19/2008

EPA Sample No.(SSTD020##): SSTD0.440 Date Analyzed: 05/28/2008

Lab File ID (Standard): S4C6890B.D Time Analyzed: 11:25

Instrument ID: S4

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	145413	5.848	378243	8.168	248562	11.155
UPPER LIMIT	290826	6.348	756486	8.668	497124	11.655
LOWER LIMIT	72707	5.348	189122	7.668	124281	10.655
EPA SAMPLE NO.						
01 SBLK4K	134415	5.848	369975	8.168	244080	11.155
02 E00H2	130675	5.848	348013	8.168	280678	11.155
03 E00H3	106340	5.849	288561	8.169	240016	11.155
04 E00H3MS	91349	5.849	255257	8.169	168944	11.155
05 E00H3MSD	92127	5.849	254833	8.169	171321	11.155
06 E00H4	90834	5.849	246847	8.169	202901	11.155
[illegible] E00H5	83857	5.849	233257	8.169	182050	11.155

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

8F - FORM VIII SV-SIM2

SEMIVOLATILE SIM INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: DB-5MS ID: 0.25 (mm) Init. Calib. Date(s): 05/19/2008 05/19/2008

EPA Sample No.(SSTD020##): SSTD0.440 Date Analyzed: 05/28/2008

Lab File ID (Standard): S4C6890B.D Time Analyzed: 11:25

Instrument ID: S4

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	211169	12.748	251216	15.148	74417	17.039
UPPER LIMIT	422338	13.248	502432	15.648	148834	17.539
LOWER LIMIT	105585	12.248	125608	14.648	37209	16.539
EPA SAMPLE NO.						
01 SBLK4K	195870	12.748	212031	15.157	53229	17.048
02 E00H2	222931	12.748	253983	15.148	103524	17.048
03 E00H3	189829	12.746	207111	15.148	100847	17.039
04 E00H3MS	138253	12.746	137649	15.148	40271	17.039
05 E00H3MSD	136995	12.742	142746	15.148	41197	17.039
06 E00H4	160526	12.748	176070	15.148	72896	17.039
07 E00H5	153453	12.746	168681	15.148	83113	17.039

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

2N - FORM II PEST-1

WATER PESTICIDE SURROGATE RECOVERY

Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK4A	86	70	104	106			0
02	PLCS4A	74	60	97	100			0
03	E00G3	73	72	85	85			0
04	E00G4	73	72	76	74			0
05	E00G5	61	58	32	29 *			1
06	E00G6	50	51	67	69			0
07	E0CH2	70	66	83	85			0
08	E0CH3	71	69	69	82			0
09	E0CH3MS	72	69	66	63			0
10	E00H3MSD	67	66	66	63			0
11	E00H4	72	71	99	97			0
12	E00H5	71	71	99	93			0
13	E00H6	72	72	102	100			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

SOM01.2 (6/2007)

3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: E4 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
gamma-BHC (Lindane)	0.5000	0.0000	0.3912	78		56-123
Heptachlor	0.5000	0.0000	0.2933	59		40-131
Aldrin	0.5000	0.0000	0.4725	95		40-120
Dieldrin	1.0000	0.0000	1.0143	101		52-126
Endrin	1.0000	0.0000	1.0232	102		56-121
4,4'-DDT	1.0000	0.0000	0.8328	83		38-127

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.5000	0.3774	75		4		15	56-123
Heptachlor	0.5000	0.2197	44		29	*	20	40-131
Aldrin	0.5000	0.4424	88		8		22	40-120
Dieldrin	1.0000	1.0004	100		1		18	52-126
Endrin	1.0000	1.0073	101		1		21	56-121
4,4'-DDT	1.0000	0.8152	82		1		27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3G - FORM III PEST-1

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: E4 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
gamma-BHC (Lindane)	0.5000	0.0000	0.3932	79		56-123
Heptachlor	0.5000	0.0000	0.2868	57		40-131
Aldrin	0.5000	0.0000	0.4620	92		40-120
Dieldrin	1.0000	0.0000	0.9771	98		52-126
Endrin	1.0000	0.0000	0.9877	99		56-121
4,4'-DDT	1.0000	0.0000	0.7603	76		38-127

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.5000	0.3812	76		4		15	56-123
Heptachlor	0.5000	0.2121	42		30	*	20	40-131
Aldrin	0.5000	0.4358	87		6		22	40-120
Dieldrin	1.0000	0.9824	98		0		18	52-126
Endrin	1.0000	0.9812	98		1		21	56-121
4,4'-DDT	1.0000	0.6921	69		10		27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

3L - FORM III PEST-3
WATER PESTICIDE LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS4A

Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab Sample ID: LCS-36550 LCS Lot No.: A033876

Date Extracted: 05/19/2008 Date Analyzed (1): 05/28/2008

Instrument ID (1): E4 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
gamma-BHC (Lindane)	0.05	0.0463	93		50-120
Heptachlor epoxide	0.05	0.0503	101		50-150
Dieldrin	0.1	0.1025	102		30-130
4,4'-DDE	0.1	0.0975	97		50-150
Endrin	0.1	0.1042	104		50-120
Endosulfan sulfate	0.1	0.1054	105		50-120
gamma-Chlordane	0.05	0.0531	106		30-130

Instrument ID (2): E4 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 05/28/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
gamma-BHC (Lindane)	0.05	0.0534	107		50-120
Heptachlor epoxide	0.05	0.0537	107		50-150
Dieldrin	0.1	0.1077	108		30-130
4,4'-DDE	0.1	0.1048	105		50-150
Endrin	0.1	0.1113	111		50-120
Endosulfan sulfate	0.1	0.1095	109		50-120
gamma-Chlordane	0.05	0.0595	119		30-130

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 14 outside limits.

COMMENTS:

4E - FORM IV PEST
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK4A

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: E4E2134F.D / E4E2134R.D Lab Sample ID: MB-36550

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 05/19/2008

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N

Date Analyzed (1): 05/28/2008 Date Analyzed (2): 05/28/2008

Time Analyzed (1): 10:24 Time Analyzed (2): 10:24

Instrument ID (1): E4 Instrument ID (2): E4

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	PLCS4A	LCS-36550	05/28/2008	05/28/2008
02	E00G3	G0754-01B	05/28/2008	05/28/2008
03	E00G4	G0754-02B	05/28/2008	05/28/2008
04	E00G5	G0754-03B	05/28/2008	05/28/2008
05	E00G6	G0754-04B	05/28/2008	05/28/2008
06	E00H2	G0754-05B	05/28/2008	05/28/2008
07	E00H3	G0754-06B	05/28/2008	05/28/2008
08	E00H3MS	G0754-06BMS	05/28/2008	05/28/2008
09	E00H3MSD	G0754-06BMSD	05/28/2008	05/28/2008
10	E00H4	G0754-07B	05/28/2008	05/28/2008
11	E00H5	G0754-08B	05/28/2008	05/28/2008
12	E00H6	G0754-09B	05/28/2008	05/28/2008

COMMENTS:

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/16/2008 05/16/2008

Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.122 DCB: 8.462

EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01 RESCB4	E4E1974F.D	5/16/2008	16:53	3.122	8.461
02 PEMB4	E4E1975F.D	5/16/2008	17:08	3.120	8.459
03 TOXAPH1B4	E4E1976F.D	5/16/2008	17:22	3.121	8.461
04 TOXAPH2B4	E4E1977F.D	5/16/2008	17:36	3.120	8.460
05 TOXAPH3B4	E4E1978F.D	5/16/2008	17:50	3.119	8.461
06 TOXAPH4B4	E4E1979F.D	5/16/2008	18:05	3.120	8.460
07 TOXAPH5B4	E4E1980F.D	5/16/2008	18:19	3.120	8.461
08 INDC1B4	E4E1982F.D	5/16/2008	18:48	3.121	8.462
INDC2B4	E4E1983F.D	5/16/2008	19:02	3.122	8.461
10 INDC3B4	E4E1984F.D	5/16/2008	19:16	3.122	8.462
11 INDC4B4	E4E1985F.D	5/16/2008	19:31	3.125	8.461
12 INDC5B4	E4E1986F.D	5/16/2008	19:45	3.121	8.462
13 PIBLKB4	E4E1987F.D	5/16/2008	19:59	3.122	8.462
14 PEMBA	E4E1988F.D	5/16/2008	20:13	3.123	8.462
15 PIBLKBH	E4E2132F.D	5/28/2008	9:30	3.121	8.465
16 PEMBH	E4E2133F.D	5/28/2008	9:44	3.119	8.462
17 PBLK4A	E4E2134F.D	5/28/2008	10:24	3.123	8.466
18 PLCS4A	E4E2135F.D	5/28/2008	10:38	3.118	8.463
19 E00G3	E4E2136F.D	5/28/2008	10:52	3.118	8.461
20 E00G4	E4E2137F.D	5/28/2008	11:07	3.116	8.460
21 E00G5	E4E2138F.D	5/28/2008	11:21	3.118	8.459
22 E00G6	E4E2139F.D	5/28/2008	11:35	3.117	8.459
23 E00H2	E4E2140F.D	5/28/2008	11:49	3.116	8.458
24 E00H3	E4E2141F.D	5/28/2008	12:04	3.118	8.458
25 E00H3MS	E4E2142F.D	5/28/2008	12:18	3.117	8.458
26 E00H3MSD	E4E2143F.D	5/28/2008	12:32	3.115	8.458
27 E00H4	E4E2144F.D	5/28/2008	12:46	3.117	8.459

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

= Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/16/2008 05/16/2008

Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.122 DCB: 8.462

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	E00H5	E4E2145F.D	5/28/2008	13:00	3.119	8.458
29	E00H6	E4E2146F.D	5/28/2008	13:15	3.119	8.459
30	EIBLKBI	E4E2148F.D	5/28/2008	13:43	3.120	8.458
31	INDC3BI	E4E2149F.D	5/28/2008	13:57	3.117	8.458

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/16/2008 05/16/2008

Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.615 DCB: 9.713

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCB4	E4E1974R.D	5/16/2008	16:53	3.615	9.711
02	PEMB4	E4E1975R.D	5/16/2008	17:08	3.613	9.710
03	TOXAPH1B4	E4E1976R.D	5/16/2008	17:22	3.615	9.712
04	TOXAPH2B4	E4E1977R.D	5/16/2008	17:36	3.613	9.711
05	TOXAPH3B4	E4E1978R.D	5/16/2008	17:50	3.613	9.711
06	TOXAPH4B4	E4E1979R.D	5/16/2008	18:05	3.613	9.712
07	TOXAPH5B4	E4E1980R.D	5/16/2008	18:19	3.613	9.713
08	INDC1B4	E4E1982R.D	5/16/2008	18:48	3.615	9.713
	INDC2B4	E4E1983R.D	5/16/2008	19:02	3.615	9.713
10	INDC3B4	E4E1984R.D	5/16/2008	19:16	3.614	9.713
11	INDC4B4	E4E1985R.D	5/16/2008	19:31	3.615	9.713
12	INDC5B4	E4E1986R.D	5/16/2008	19:45	3.614	9.713
13	PIBLKB4	E4E1987R.D	5/16/2008	19:59	3.615	9.714
14	PEMBA	E4E1988R.D	5/16/2008	20:13	3.617	9.713
15	PIBLKBH	E4E2132R.D	5/28/2008	9:30	3.614	9.716
16	PEMBH	E4E2133R.D	5/28/2008	9:44	3.614	9.714
17	PBLK4A	E4E2134R.D	5/28/2008	10:24	3.612	9.714
18	PLCS4A	E4E2135R.D	5/28/2008	10:38	3.612	9.713
19	E00G3	E4E2136R.D	5/28/2008	10:52	3.613	9.713
20	E00G4	E4E2137R.D	5/28/2008	11:07	3.611	9.712
21	E00G5	E4E2138R.D	5/28/2008	11:21	3.611	9.711
22	E00G6	E4E2139R.D	5/28/2008	11:35	3.610	9.710
23	E00H2	E4E2140R.D	5/28/2008	11:49	3.612	9.709
24	E00H3	E4E2141R.D	5/28/2008	12:04	3.612	9.709
25	E00H3MS	E4E2142R.D	5/28/2008	12:18	3.611	9.709
26	E00H3MSD	E4E2143R.D	5/28/2008	12:32	3.610	9.708
27	E00H4	E4E2144R.D	5/28/2008	12:46	3.610	9.709

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8G - FORM VIII PEST

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/16/2008 05/16/2008

Instrument ID: E4

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.615 DCB: 9.713

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	E00H5	E4E2145R.D	5/28/2008	13:00	3.612	9.709
29	E00H6	E4E2146R.D	5/28/2008	13:15	3.612	9.709
30	PIBLKBI	E4E2148R.D	5/28/2008	13:43	3.613	9.709
31	INDC3BI	E4E2149R.D	5/28/2008	13:57	3.611	9.708

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS4A(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-36550

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4E2135F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 05/19/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.046	J
76-44-8	Heptachlor	0.050	U
[illegible]-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	
72-55-9	4,4'-DDE	0.097	J
72-20-8	Endrin	0.10	
3321-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.11	
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.053	
8001-35-2	Toxaphene	5.0	U

1G - FORM I PEST

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS4A(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-36550

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E4E2135R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 05/19/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.053	
44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.054	
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.11	
72-55-9	4,4'-DDE	0.10	
72-20-8	Endrin	0.11	
3321-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.11	
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.060	
8001-35-2	Toxaphene	5.0	U

2Q - FORM II ARO-1

WATER AROCLOR SURROGATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK2A	61	63	74	74			0
02	ALCS2A	65	67	77	78			0
03	E00G3	63	65	62	63			0
04	E00G4	66	68	60	60			0
05	E00G5	50	50	33	33			0
06	E00G6	65	68	62	63			0
07	E00H2	65	67	75	75			0
08	E00H3	65	67	72	73			0
09	E00H3MS	64	66	61	62			0
10	E00H3MSD	64	67	55	55			0
11	E00H4	62	63	71	72			0
12	E00H5	61	63	72	76			0
13	E00H6	62	64	64	65			0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(30-150)
DCB = Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

0900

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: _____ SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: E2 GC Column : CLPPest ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
ARL016	4.0000	0.0000	3.9962	100		29-135
ARL260	4.0000	0.0000	3.9703	99		29-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
ARL016	4.0000	3.8840	97		3		15	29-135
ARL260	4.0000	3.7060	93		6		20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

3J - FORM III ARO-1

WATER AROCLOR MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix Spike - EPA Sample No.: E00H3

Instrument ID: E2 GC Column : CLPPestII ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS %REC	#	QC. LIMITS REC.
ARO16	4.0000	0.0000	3.9312	98		29-135
ARO260	4.0000	0.0000	3.9573	99		29-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD %REC	#	%RPD	#	QC LIMITS RPD	QC LIMITS REC.
ARO16	4.0000	3.7218	93		5		15	29-135
ARO260	4.0000	3.6778	92		7		20	29-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

3N - FORM III ARO-3
WATER AROCLOR LABORATORY CONTROL
SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS2A

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab Sample ID: LCS-36549 LCS Lot No.: A045835

Date Extracted: 05/19/2008 Date Analyzed (1): 05/28/2008

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	1	1.2254	123		50-150
Aroclor-1260	1	1.2301	123		50-150

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 05/28/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	1	1.1749	117		50-150
Aroclor-1260	1	1.1519	115		50-150

Column to be used to flag recovery values with an asterisk
* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK2A

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Lab File ID: E2H0301F.D / E2H0301R.D Lab Sample ID: MB-36549

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 05/19/2008

Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 05/28/2008 Date Analyzed (2): 05/28/2008

Time Analyzed (1): 19:38 Time Analyzed (2): 19:38

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCS2A	LCS-36549	05/28/2008	05/28/2008
02	E00G3	G0754-01B	05/28/2008	05/28/2008
03	E00G4	G0754-02B	05/28/2008	05/28/2008
04	E00G5	G0754-03B	05/28/2008	05/28/2008
05	E00G6	G0754-04B	05/28/2008	05/28/2008
06	E00H2	G0754-05B	05/28/2008	05/28/2008
07	E00H3	G0754-06B	05/28/2008	05/28/2008
08	E00H3MS	G0754-06BMS	05/28/2008	05/28/2008
09	E00H3MSD	G0754-06BMSD	05/28/2008	05/28/2008
10	E00H4	G0754-07B	05/28/2008	05/28/2008
11	E00H5	G0754-08B	05/28/2008	05/28/2008
12	E00H6	G0754-09B	05/28/2008	05/28/2008

COMMENTS:

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/28/2008 05/28/2008

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.022 DCB: 7.965

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR12213D2	E2H0272F.D	5/28/2008	12:21	3.020	7.963
02	AR12323D2	E2H0273F.D	5/28/2008	12:36	3.020	7.962
03	AR12421D2	E2H0274F.D	5/28/2008	12:51	3.020	7.963
04	AR12422D2	E2H0275F.D	5/28/2008	13:06	3.020	7.963
05	AR12423D2	E2H0276F.D	5/28/2008	13:20	3.017	7.963
06	AR12424D2	E2H0277F.D	5/28/2008	13:35	3.020	7.963
07	AR12425D2	E2H0278F.D	5/28/2008	13:50	3.022	7.963
08	AR12481D2	E2H0279F.D	5/28/2008	14:05	3.022	7.963
	AR12482D2	E2H0280F.D	5/28/2008	14:20	3.020	7.963
10	AR12483D2	E2H0281F.D	5/28/2008	14:35	3.020	7.963
11	AR12484D2	E2H0282F.D	5/28/2008	14:50	3.020	7.965
12	AR12485D2	E2H0283F.D	5/28/2008	15:05	3.020	7.963
13	AR12541D2	E2H0284F.D	5/28/2008	15:20	3.020	7.963
14	AR12542D2	E2H0285F.D	5/28/2008	15:34	3.022	7.963
15	AR12543D2	E2H0286F.D	5/28/2008	15:49	3.022	7.963
16	AR12544D2	E2H0287F.D	5/28/2008	16:04	3.020	7.963
17	AR12545D2	E2H0288F.D	5/28/2008	16:19	3.020	7.963
18	AR12623D2	E2H0289F.D	5/28/2008	16:34	3.020	7.963
19	AR12683D2	E2H0290F.D	5/28/2008	16:49	3.020	7.963
20	AR16601D2	E2H0291F.D	5/28/2008	17:04	3.022	7.965
21	AR16602D2	E2H0292F.D	5/28/2008	17:18	3.020	7.963
22	AR16603D2	E2H0293F.D	5/28/2008	17:33	3.022	7.965
23	AR16604D2	E2H0294F.D	5/28/2008	17:48	3.020	7.963
24	AR16605D2	E2H0295F.D	5/28/2008	18:08	3.025	7.970
25	AIBLKDA	E2H0299F.D	5/28/2008	19:08	3.020	7.963
26	AR16603DA	E2H0300F.D	5/28/2008	19:23	3.020	7.963
27	ABLK2A	E2H0301F.D	5/28/2008	19:38	3.020	7.963

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPest ID: 0.53 (mm) Init. Calib. Date(s): 05/28/2008 05/28/2008

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.022 DCB: 7.965

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	ALCS2A	E2H0302F.D	5/28/2008	19:53	3.020	7.963
29	E00G3	E2H0303F.D	5/28/2008	20:08	3.022	7.963
30	E00G4	E2H0304F.D	5/28/2008	20:22	3.020	7.962
31	E00G5	E2H0305F.D	5/28/2008	20:37	3.022	7.963
32	E00G6	E2H0306F.D	5/28/2008	20:52	3.020	7.962
33	E00H2	E2H0307F.D	5/28/2008	21:07	3.020	7.963
34	E00H3	E2H0308F.D	5/28/2008	21:22	3.020	7.963
35	E00H3MS	E2H0309F.D	5/28/2008	21:37	3.020	7.963
[illegible]	E00H3MSD	E2H0310F.D	5/28/2008	21:52	3.020	7.963
[illegible]	E00H4	E2H0311F.D	5/28/2008	22:07	3.020	7.963
38	E00H5	E2H0312F.D	5/28/2008	22:21	3.020	7.963
39	E00H6	E2H0313F.D	5/28/2008	22:36	3.020	7.963
40	ZZZZZ	E2H0314F.D	5/28/2008	22:51	3.022	7.965
41	AIBLKDB	E2H0315F.D	5/28/2008	23:07	3.020	7.963
42	AR16603DB	E2H0316F.D	5/28/2008	23:21	3.022	7.963

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/28/2008 05/28/2008

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.389 DCB: 9.636

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR122113D2	E2H0272R.D	5/28/2008	12:21	3.388	9.633
02	AR123233D2	E2H0273R.D	5/28/2008	12:36	3.388	9.633
03	AR124211D2	E2H0274R.D	5/28/2008	12:51	3.390	9.635
04	AR124222D2	E2H0275R.D	5/28/2008	13:06	3.390	9.635
05	AR124233D2	E2H0276R.D	5/28/2008	13:20	3.387	9.635
06	AR124244D2	E2H0277R.D	5/28/2008	13:35	3.388	9.635
07	AR124255D2	E2H0278R.D	5/28/2008	13:50	3.388	9.633
08	AR124811D2	E2H0279R.D	5/28/2008	14:05	3.390	9.637
09	AR124822D2	E2H0280R.D	5/28/2008	14:20	3.390	9.635
10	AR124833D2	E2H0281R.D	5/28/2008	14:35	3.388	9.635
11	AR124844D2	E2H0282R.D	5/28/2008	14:50	3.388	9.635
12	AR124855D2	E2H0283R.D	5/28/2008	15:05	3.388	9.635
13	AR125411D2	E2H0284R.D	5/28/2008	15:20	3.390	9.635
14	AR125422D2	E2H0285R.D	5/28/2008	15:34	3.390	9.637
15	AR125433D2	E2H0286R.D	5/28/2008	15:49	3.390	9.635
16	AR125444D2	E2H0287R.D	5/28/2008	16:04	3.388	9.635
17	AR125455D2	E2H0288R.D	5/28/2008	16:19	3.388	9.635
18	AR126233D2	E2H0289R.D	5/28/2008	16:34	3.390	9.637
19	AR126833D2	E2H0290R.D	5/28/2008	16:49	3.390	9.635
20	AR166011D2	E2H0291R.D	5/28/2008	17:04	3.390	9.637
21	AR166022D2	E2H0292R.D	5/28/2008	17:18	3.390	9.635
22	AR166033D2	E2H0293R.D	5/28/2008	17:33	3.390	9.637
23	AR166044D2	E2H0294R.D	5/28/2008	17:48	3.388	9.635
24	AR166055D2	E2H0295R.D	5/28/2008	18:08	3.388	9.637
25	AIBLKDA	E2H0299R.D	5/28/2008	19:08	3.388	9.635
26	AR166033DA	E2H0300R.D	5/28/2008	19:23	3.388	9.635
27	ABLK2A	E2H0301R.D	5/28/2008	19:38	3.390	9.635

QC LIMITS

TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)

DCB = Decachlorobiphenyl (± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

8H - FORM VIII ARO

AROCLOR ANALYTICAL SEQUENCE

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

GC Column: CLPPestII ID: 0.53 (mm) Init. Calib. Date(s): 05/28/2008 05/28/2008

Instrument ID: E2

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs, AND LCSs IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION

TCX: 3.389 DCB: 9.636

	EPA SAMPLE NO.	LAB File ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
28	ALCS2A	E2H0302R.D	5/28/2008	19:53	3.388	9.635
29	E00G3	E2H0303R.D	5/28/2008	20:08	3.390	9.635
30	E00G4	E2H0304R.D	5/28/2008	20:22	3.388	9.633
31	E00G5	E2H0305R.D	5/28/2008	20:37	3.390	9.637
32	E00G6	E2H0306R.D	5/28/2008	20:52	3.388	9.633
33	E00H2	E2H0307R.D	5/28/2008	21:07	3.388	9.633
34	E00H3	E2H0308R.D	5/28/2008	21:22	3.388	9.635
35	E00H3MS	E2H0309R.D	5/28/2008	21:37	3.388	9.635
36	E00H3MSD	E2H0310R.D	5/28/2008	21:52	3.388	9.635
37	E00H4	E2H0311R.D	5/28/2008	22:07	3.388	9.635
38	E00H5	E2H0312R.D	5/28/2008	22:21	3.388	9.635
39	E00H6	E2H0313R.D	5/28/2008	22:36	3.390	9.637
40	ZZZZZ	E2H0314R.D	5/28/2008	22:51	3.388	9.637
41	AIBLKDB	E2H0315R.D	5/28/2008	23:07	3.390	9.635
42	AR16603DB	E2H0316R.D	5/28/2008	23:21	3.390	9.637

	QC LIMITS
TCX = Tetrachloro-m-xylene	(± 0.05 MINUTES)
DCB = Decachlorobiphenyl	(± 0.10 MINUTES)

Column used to flag RT values with an asterisk.

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2A(1)

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-36549

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2H0302F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 05/19/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.2	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2A(2)

Lab Name: MITKEM LABORATORIES Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 37448 Mod. Ref No.: SDG No.: E00G3

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-36549

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E2H0302R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 05/19/2008

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 05/28/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.2	
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EDDG3 CERCLIS No: ILD048843809

Case No: 37448 Site Name/Location: Chemetco (IL)

Contractor or EPA Lab: MitKem Data User: IEPA

No. of Samples: 11 Date Sampled or Date Received: 6 June 08

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 11 No. of samples received: ____

Received by: pdavis Date: 6 June 08

Received by LSSS: pdavis Date: 11 June 08

Review started: 7-8-8 Reviewer Signature: Steph Toh

Total time spent on review: 24 hrs Date review completed: 7-14-8

Copied by: A. C. Harvey Date: July 17, 2008

Mailed to user by: pdavis Date: 17 July 08

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete	[ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____