ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
POWER CITY WAREHOUSE

Client: EA Engineering, Science and Technology, Syracuse, New York
SDG: MG1711
Laboratory: Mitkem Laboratories, Warwick, Rhode Island
Site: Power City Warehouse, New York
Date: November 25, 2008

VOC/SVOC			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	9-32-131-SB-17 (5-6)	G1711-03	Soil
2	9-32-131-SB-18 (4-7)	G1711-04	Soil
2MS	9-32-131-SB-18 (4-7)MS	G1711-04MS	Soil
2MSD	9-32-131-SB-18 (4-7)MSD	G1711-04MSD	Soil
3	9-32-131-SB-19 (4-7)	G1711-05	Soil
4	9-32-131-SB-23S (3-4)	G1711-12	Soil

METALS			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	9-32-131-SB-15S	G1711-01	Soil
2	9-32-131-SB-16S	G1711-02	Soil
2MS	9-32-131-SB-16SMS	G1711-02MS	Soil
2MSD	9-32-131-SB-16SMSD	G1711-02MSD	Soil
3	9-32-131-SB-20S	G1711-06	Soil
4	9-32-131-SB-17S	G1711-07	Soil
5	9-32-131-SB-18S	G1711-08	Soil
6	9-32-131-SB-21S	G1711-10	Soil
7	9-32-131-SB-22S	G1711-11	Soil
8	BSMT COMPOSITE	G1711-13	Soil
9	DUPLICATE-02	G1711-14	Soil
10	9-32-131-SB-23S	G1711-15	Soil

Deliverables

A Data Usability Summary Review was performed on the analytical data for fourteen soil samples collected by EA Engineering at the Power City Warehouse Site in New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions"*.

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260B
SVOC	USEPA SW-846 Method 8270C
Metals	USEPA SW-846 Method 6010B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B;
- SOP Number HW-22, Revision 3, October 2006: Validating Semivolatile Organic Compounds by GC/MS, SW-846 Method 8270D;
- SOP Number HW-2, Revision 13, September 2006: Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3;
- And the reviewer's professional judgment.

Organics

The following items/criteria were reviewed:

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Duplicate (LCS/LCSD) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Inorganics

The following items/criteria were reviewed:

- Data Completeness
- Holding times and sample preservation
- Initial and continuing calibration verifications
- Method blank and field blank contamination
- ICP interference check sample recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Lab Control Sample (LCS) recoveries
- ICP Serial Dilution results
- Compound Quantitation
- Field Duplicate sample precision

Overall Usability Issues:

There were several rejections of data.

- Two or three VOC compounds were rejected in all samples due to low initial calibration RRF values.
- Three SVOC compounds were rejected in one sample due to severely low MS/MSD recoveries.
- One SVOC compound was rejected in all samples due to a severely low LCS recovery.

Overall the remaining data is acceptable for the intended purposes. Data were qualified for the following deficiencies.

- Twenty-six VOC results were qualified as estimated (J/UJ) in one sample due to low MS/MSD recoveries.
- One VOC compound was qualified as non-detected (U) in one sample due to method blank contamination.
- Three VOC compounds were qualified as estimated (UJ) in three samples due to high continuing calibration %D values.
- Two SVOC results were qualified as estimated (UJ) in one sample due to low MS/MSD recoveries.
- One SVOC compound was qualified as estimated (UJ) in all samples due to a low LCS recovery.
- Three metals compounds were qualified as non-detected (U) in several samples due to method blank contamination.
- One metals compound was qualified as estimated (J/UJ) in all samples due to a low MS recovery.
- Four metals compounds were qualified as estimated (J) in all samples due to high ICP serial dilution %D values.
- Several metals compounds were qualified estimated (J) due to high field duplicate RPD values.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

VOC

Data Completeness

- All criteria were met.

Holding Times

- All criteria were met.

Surrogate Spike Recoveries

- All criteria were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a %R below 10%, results are rejected and qualified (R). Rejected results are not useable for project objectives.

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
2	Iodomethane	Ok/69%/Ok	J/UJ
	Vinyl acetate	47%/50%/Ok	J/UJ
	Chlorobenzene	69%/66%/Ok	J/UJ
	1,1,1,2-Tetrachloroethane	70%/68%/Ok	J/UJ
	Ethylbenzene	71%/69%/Ok	J/UJ
	m,p-Xylene	67%/66%/Ok	J/UJ
	o-Xylene	67%/65%/Ok	J/UJ
	Xylene (total)	67%/65%/Ok	J/UJ
	Styrene	64%/62%/Ok	J/UJ
	Isopropylbenzene	66%/64%/Ok	J/UJ
	Bromobenzene	63%/59%/Ok	J/UJ
	n-Propylbenzene	65%/61%/Ok	J/UJ
	2-Chlorotoluene	62%/57%/Ok	J/UJ
	1,3,5-Trimethylbenzene	59%/55%/Ok	J/UJ
	4-Chlorotoluene	59%/55%/Ok	J/UJ
	tert-Butylbenzene	59%/56%/Ok	J/UJ
	1,2,4-Trimethylbenzene	55%/51%/Ok	J/UJ
	sec-Butylbenzene	58%/56%/Ok	J/UJ
	4-Isopropyltoluene	53%/51%/Ok	J/UJ
	1,3-Dichlorobenzene	49%/45%/Ok	J/UJ
	1,4-Dichlorobenzene	48%/44%/Ok	J/UJ
	n-Butylbenzene	60%/57%/Ok	J/UJ
	1,2-Dichlorobenzene	49%/44%/Ok	J/UJ
	1,2,4-Trichlorobenzene	44%/40%/Ok	J/UJ
	Hexachlorobutadiene	34%/34%/Ok	J/UJ
	1,2,3-Trichlorobenzene	41%/Ok/Ok	J/UJ

Laboratory Control Samples

- All LCS samples exhibited acceptable recoveries.

Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Concentration ug/kg	Qualifier	Affected Samples
VBLK1D	Methylene chloride	4.0	U	4
	Naphthalene	1.1	None	All ND

Trip, Field & Equipment Blank

- Field QC samples were not analyzed.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The following table lists compounds that exceeded 20 percent relative standard deviation (%RSD) and/or a mean RRF values <0.05 in the initial calibration (ICAL). For a high %RSD, positive results for these compounds in associated samples are considered estimated and qualified (J). All non-detect results for the compound of interest in the appropriate samples do not require qualification. A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives.

ICAL	Compound	Result %RSD/RRF	Qualifier	Affected Samples
09/18/08	Acetone	23.8% RSD/0.031 RRF	J/R	1, 2, 3
	2-Butanone	0.035 RRF	J/R	1, 2, 3
	2-Hexanone	25.8% RSD	None	All ND
10/08/08	Dichlorodifluoromethane	0.016 RRF	J/R	4
	Acetone	0.032 RRF	J/R	4
	2-Butanone	0.032 RRF	J/R	4

Continuing Calibration

- The following table lists compounds that exceeded 20 percent deviation (%D) and/or RRF values <0.05 in the continuing calibration (CCAL). For a high %D, positive results for these compounds in the associated samples are considered estimated and qualified (J) and all non-detect results are considered estimated and qualified (UJ).

CCAL	Compound	Result %D/RRF	Qualifier	Affected Sample(s)
10/03/08	Dichlorodifluoromethane	21.1% D	J/UJ	1, 2, 3
	Chloroethane	27.2% D	J/UJ	1, 2, 3
	1,1-Dichloroethene	24.8% D	J/UJ	1, 2, 3
	Acetone	0.028 RRF	None	See ICAL
	2-Butanone	0.039 RRF	None	See ICAL
10/08/08	Dichlorodifluoromethane	0.016 RRF	None	See ICAL
	Acetone	0.033 RRF	None	See ICAL
	2-Butanone	0.032 RRF	None	See ICAL

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not included in this data package.

SVOC

Data Completeness

- All criteria were met.

Holding Times

- All criteria were met.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above The QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a %R below 10%, results are rejected and qualified (R). Rejected results are not useable for project objectives.

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
2	2,4-Dinitrophenol	0%/0%/Ok	R
	4-Nitrophenol	0%/0%/Ok	R
	Hexachlorocyclopentadiene	0%/0%/Ok	R
	2,4,5-Trichlorophenol	Ok/111%/Ok	None - Sample ND
	4-Nitroaniline	Ok/34%/70	J/UJ
	4,6-Dinitro-2-methylphenol	30%/27%/Ok	J/UJ
	n-Nitrosodiphenylamine	Ok/138%/Ok	None - Sample ND

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a %R below 10%, results are rejected and qualified (R). Rejected results are not useable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
S3GLCS	2,4-Dinitrophenol	5%	J/R	All Samples
	4,6-Dinitro-2-methylphenol	26%	J/UJ	All Samples

Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Concentration ug/kg	Qualifier	Affected Samples
VBLK1D	Naphthalene	1.1	None	All ND

Field & Equipment Blank

- Field QC samples were not analyzed.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The following table lists compounds that exceeded 20 percent relative standard deviation (%RSD) and/or a mean RRF values <0.05 in the initial calibration (ICAL). For a high %RSD, positive results for these compounds in associated samples are considered estimated and qualified (J). All non-detect results for the compound of interest in the appropriate samples do not require qualification.

ICAL	Compound	Result %RSD/RRF	Qualifier	Affected Samples
10/04/08	2,4-Dinitrophenol	37.5% RSD	None	See LCS
	Benzo (k) fluoranthene	20.3% RSD	None	All ND
	Hexachlorocyclopentadiene	27.8% RSD	None	All ND

Continuing Calibration

- All %D and RRF criteria were met.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards were within acceptable range.

Field Duplicate Sample Precision

- Field duplicate samples were not included in this data package.

METALS

Data Completeness

- All criteria were met.

Holding Times

- All criteria were met.

Calibration

- The ICV and CCV %R values were acceptable.

Method Blank

- The method blanks exhibited the following contamination.

Blank ID	Compound	Concentration mg/kg	Qualifier	Affected Sample(s)
MB-39401	Antimony	0.297	U	3, 5, 6, 9, 10
	Cadmium	0.017	U	1, 2, 4, 5, 10
	Mercury	0.006	U	1-6, 10

Field & Equipment Blank

- Field QC samples were not analyzed.

ICP Interference Check Sample

- All %R criteria were met.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents matrix spike/matrix spike duplicate (MS/MSD) percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above the QC limits. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R or RPD, positive results are considered estimated and qualified (J).

MS/MSD ID	Compound	Deficiency MS %R/MSD%R/RPD	Qualifier	Affected Samples
2	Antimony	23.5%/Ok/Ok	J/UJ	All samples

Laboratory Control Samples

- The LCS recoveries were acceptable.

ICP Serial Dilution

- The following table presents ICP serial dilution percent differences (%D) outside the QC limits. A high %D may indicate a potential high bias. Positive results are considered estimated and qualified (J).

ICP Sample ID	Compound	%D	Qualifier	Affected Samples
2	Cobalt	13%	J	All samples
	Manganese	13%	J	All samples
	Nickel	11%	J	All samples
	Zinc	16%	J	All samples

Compound Quantitation

- All results reported with a (B) qualifier by the laboratory were further qualified as estimated (J) except those results already qualified. This indicates an estimated result between the MDL and RL.

Field Duplicate Sample Precision

- Field duplicate results are summarized below.

Compound	9-32-131-SB-08S mg/kg	DUPLICATE-02 mg/kg	RPD	Qualifier
Aluminum	7500	29800	120%	J
Antimony	30.9	0.65 U	NC	None
Arsenic	9.5	4.6	70%	None
Barium	90.1	227	86%	None
Beryllium	0.85	1.4	49%	None
Cadmium	0.59	0.27	74%	None
Calcium	40800	11500	112%	J
Chromium	10.1	32.0	104%	J
Cobalt	6.2	11.6	61%	None
Copper	85.9	20.3	124%	J
Iron	31000	39300	24%	None
Lead	9410	115	195%	J
Magnesium	4320	7800	57%	None
Manganese	368	286	25%	None
Mercury	0.28	0.062	127%	J
Nickel	9.8	30.5	103%	J
Potassium	847	2280	92%	None
Silver	0.15	0.13 U	NC	None
Sodium	266	176	41%	None

Compound	9-32-131-SB-08S mg/kg	DUPLICATE-02 mg/kg	RPD	Qualifier
Vanadium	12.9	42.1	106%	J
Zinc	168	210	22%	None

Package Summary:

All data are valid and usable as noted in this review.

Signed: Nancy Weaver Dated: 12/3/08

Nancy Weaver
Senior Chemist

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-17 (5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G1263.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 25 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6.5	~~U~~ UJ
74-87-3	Chloromethane	6.5	U
75-01-4	Vinyl chloride	6.5	U
74-83-9	Bromomethane	6.5	U
75-00-3	Chloroethane	6.5	~~U~~ UJ
75-69-4	Trichlorofluoromethane	6.5	U
75-35-4	1,1-Dichloroethene	6.5	~~U~~ UJ
67-64-1	Acetone	6.5	~~U~~ R
74-88-4	Iodomethane	6.5	~~U~~ UJ
75-15-0	Carbon disulfide	6.5	U
75-09-2	Methylene chloride	6.5	U
156-60-5	trans-1,2-Dichloroethene	6.5	U
1634-04-4	Methyl tert-butyl ether	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
108-05-4	Vinyl acetate	6.5	~~U~~ UJ
78-93-3	2-Butanone	6.5	~~U~~ R
156-59-2	cis-1,2-Dichloroethene	6.5	U
594-20-7	2,2-Dichloropropane	6.5	U
74-97-5	Bromochloromethane	6.5	U
67-66-3	Chloroform	6.5	U
71-55-6	1,1,1-Trichloroethane	6.5	U
563-58-6	1,1-Dichloropropene	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
71-43-2	Benzene	6.5	U
79-01-6	Trichloroethene	8.6	
78-87-5	1,2-Dichloropropane	6.5	U
74-95-3	Dibromomethane	6.5	U
75-27-4	Bromodichloromethane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
108-10-1	4-Methyl-2-pentanone	6.5	U
108-88-3	Toluene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
142-28-9	1,3-Dichloropropane	6.5	U

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-17 (5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G1263.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 25 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	6.5	U
591-78-6	2-Hexanone	6.5	~~U~~ UJ
124-48-1	Dibromochloromethane	6.5	U
106-93-4	1,2-Dibromoethane	6.5	U
108-90-7	Chlorobenzene	6.5	~~U~~ UJ
630-20-6	1,1,1,2-Tetrachloroethane	6.5	~~U~~ UJ
100-41-4	Ethylbenzene	6.5	~~U~~
1330-20-7	m,p-Xylene	6.5	~~U~~
95-47-6	o-Xylene	6.5	~~U~~
1330-20-7	Xylene (Total)	6.5	~~U~~ UJ
100-42-5	Styrene	6.5	~~U~~ UJ
75-25-2	Bromoform	6.5	U
98-82-8	Isopropylbenzene	6.5	~~U~~ UJ
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U
108-86-1	Bromobenzene	6.5	~~U~~ UJ
96-18-4	1,2,3-Trichloropropane	6.5	U
103-65-1	n-Propylbenzene	6.5	~~U~~ UJ
95-49-8	2-Chlorotoluene	6.5	U
108-67-8	1,3,5-Trimethylbenzene	6.5	U
106-43-4	4-Chlorotoluene	6.5	U
98-06-6	tert-Butylbenzene	6.5	U
95-63-6	1,2,4-Trimethylbenzene	6.5	U
135-98-8	sec-Butylbenzene	6.5	U
99-87-6	4-Isopropyltoluene	6.5	U
541-73-1	1,3-Dichlorobenzene	6.5	U
106-46-7	1,4-Dichlorobenzene	6.5	U
104-51-8	n-Butylbenzene	6.5	U
95-50-1	1,2-Dichlorobenzene	6.5	U
96-12-8	1,2-Dibromo-3-chloropropane	6.5	U
120-82-1	1,2,4-Trichlorobenzene	6.5	U UJ
87-68-3	Hexachlorobutadiene	6.5	U
87-61-6	1,2,3-Trichlorobenzene	6.5	U
91-20-3	Naphthalene	6.5	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
9-32-131-SB-17
(5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03B

Sample wt/vol: 5.10 (g/mL) G Lab File ID: V6G1263.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 25 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01	638-36-8	Hexadecane, 2,6,10,14-tetram	17.073	8.2	~~NJ~~	NJ
02	582-16-1	Naphthalene, 2,7-dimethyl-	17.420	8.1	~~NJ~~	NJ
03		Unknown-01	17.633	7.3	~~J~~	J
04		Unknown-02	18.083	13	~~J~~	J
	E966796[1]	Total Alkanes	N/A			

[1] EPA-designated Registry Number.

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04B

Sample wt/vol: 2.60 (g/mL) G Lab File ID: V6G1264.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 28 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	~~U~~ UJ
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	~~U~~ UJ
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	~~U~~ UJ
67-64-1	Acetone	45	J
74-88-4	Iodomethane	13	U
75-15-0	Carbon disulfide	13	U
75-09-2	Methylene chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
108-05-4	Vinyl acetate	13	U
78-93-3	2-Butanone	13	~~U~~ R
156-59-2	cis-1,2-Dichloroethene	13	U
594-20-7	2,2-Dichloropropane	13	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
563-58-6	1,1-Dichloropropene	13	U
56-23-5	Carbon tetrachloride	13	U
107-06-2	1,2-Dichloroethane	13	U
71-43-2	Benzene	13	U
79-01-6	Trichloroethene	13	U
78-87-5	1,2-Dichloropropane	13	U
74-95-3	Dibromomethane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
142-28-9	1,3-Dichloropropane	13	U

lw 11/25/08

SW846

2

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04B

Sample wt/vol: 2.60 (g/mL) G Lab File ID: V6G1264.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 28 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	~~U~~ UJ
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
630-20-6	1,1,1,2-Tetrachloroethane	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	m,p-Xylene	13	U
95-47-6	o-Xylene	13	U
1330-20-7	Xylene (Total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-86-1	Bromobenzene	13	U
96-18-4	1,2,3-Trichloropropane	13	U
103-65-1	n-Propylbenzene	13	U
95-49-8	2-Chlorotoluene	13	U
108-67-8	1,3,5-Trimethylbenzene	13	U
106-43-4	4-Chlorotoluene	13	U
98-06-6	tert-Butylbenzene	13	U
95-63-6	1,2,4-Trimethylbenzene	13	U
135-98-8	sec-Butylbenzene	13	U
99-87-6	4-Isopropyltoluene	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
104-51-8	n-Butylbenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
87-68-3	Hexachlorobutadiene	13	U
87-61-6	1,2,3-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U

hw 11/25/08

SW846

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04B

Sample wt/vol: 2.60 (g/mL) G Lab File ID: V6G1264.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 28 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000152-47-3	trans-Decalin, 2-methyl-	13.740	700	~~NJ~~ NJ
02		Unknown-01	13.978	630	J J
03		Unknown-02	14.039	540	J
04		Unknown-03	14.142	1100	J
05		Unknown-04	14.318	630	J
06		Unknown-05	14.422	860	J
07		Unknown-06	14.507	510	J
08		Unknown-07	14.604	1500	J
09		Unknown-08	14.720	720	J
10		Unknown-09	14.872	1000	J
11		Unknown-10	15.067	520	J
12		Unknown-11	15.401	640	J
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

LW 11/25/08

SW846

3

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05B

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V6G1265.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 31 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	8.1	~~U~~ UJ
74-87-3	Chloromethane	8.1	U
75-01-4	Vinyl chloride	8.1	U
74-83-9	Bromomethane	8.1	U
75-00-3	Chloroethane	8.1	~~U~~ UJ
75-69-4	Trichlorofluoromethane	8.1	U
75-35-4	1,1-Dichloroethene	8.1	~~U~~ UJ
67-64-1	Acetone	100	J
74-88-4	Iodomethane	8.1	U
75-15-0	Carbon disulfide	8.1	U
75-09-2	Methylene chloride	8.1	U
156-60-5	trans-1,2-Dichloroethene	8.1	U
1634-04-4	Methyl tert-butyl ether	8.1	U
75-34-3	1,1-Dichloroethane	8.1	U
108-05-4	Vinyl acetate	8.1	U
78-93-3	2-Butanone	22	J
156-59-2	cis-1,2-Dichloroethene	8.1	U
594-20-7	2,2-Dichloropropane	8.1	U
74-97-5	Bromochloromethane	8.1	U
67-66-3	Chloroform	8.1	U
71-55-6	1,1,1-Trichloroethane	8.1	U
563-58-6	1,1-Dichloropropene	8.1	U
56-23-5	Carbon tetrachloride	8.1	U
107-06-2	1,2-Dichloroethane	8.1	U
71-43-2	Benzene	8.1	U
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	8.1	U
74-95-3	Dibromomethane	8.1	U
75-27-4	Bromodichloromethane	8.1	U
10061-01-5	cis-1,3-Dichloropropene	8.1	U
108-10-1	4-Methyl-2-pentanone	8.1	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	8.1	U
79-00-5	1,1,2-Trichloroethane	8.1	U
142-28-9	1,3-Dichloropropane	8.1	U

LW 1/25/08

SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05B

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V6G1265.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 31 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	8.1	U
591-78-6	2-Hexanone	8.1	~~U~~ UJ
124-48-1	Dibromochloromethane	8.1	U
106-93-4	1,2-Dibromoethane	8.1	U
108-90-7	Chlorobenzene	8.1	U
630-20-6	1,1,1,2-Tetrachloroethane	8.1	U
100-41-4	Ethylbenzene	8.1	U
1330-20-7	m,p-Xylene	8.1	U
95-47-6	o-Xylene	8.1	U
1330-20-7	Xylene (Total)	8.1	U
100-42-5	Styrene	8.1	U
75-25-2	Bromoform	8.1	U
98-82-8	Isopropylbenzene	4.5	J
79-34-5	1,1,2,2-Tetrachloroethane	8.1	U
108-86-1	Bromobenzene	8.1	U
96-18-4	1,2,3-Trichloropropane	8.1	U
103-65-1	n-Propylbenzene	4.1	J
95-49-8	2-Chlorotoluene	8.1	U
108-67-8	1,3,5-Trimethylbenzene	8.1	U
106-43-4	4-Chlorotoluene	8.1	U
98-06-6	tert-Butylbenzene	8.1	U
95-63-6	1,2,4-Trimethylbenzene	8.1	U
135-98-8	sec-Butylbenzene	8.0	J
99-87-6	4-Isopropyltoluene	8.1	U
541-73-1	1,3-Dichlorobenzene	8.1	U
106-46-7	1,4-Dichlorobenzene	8.1	U
104-51-8	n-Butylbenzene	12	
95-50-1	1,2-Dichlorobenzene	8.1	U
96-12-8	1,2-Dibromo-3-chloropropane	8.1	U
120-82-1	1,2,4-Trichlorobenzene	8.1	U
87-68-3	Hexachlorobutadiene	8.1	U
87-61-6	1,2,3-Trichlorobenzene	8.1	U
91-20-3	Naphthalene	8.1	U

CW 11/25/08

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05B

Sample wt/vol: 4.50 (g/mL) G Lab File ID: V6G1265.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 31 Date Analyzed: 10/03/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01	000152-47-3	trans-Decalin, 2-methyl-	13.734	440	~~NJ~~	NJ
02		Unknown-01	14.306	440	J	J
03		Unknown-02	14.416	960	J	
04		Unknown-03	14.507	440	J	
05	17301-23-4	Undecane, 2,6-dimethyl-	14.574	1700	NJ	NJ
06		Unknown-04	14.823	980	J	J
07		Unknown-05	14.951	580	J	
08		Unknown-06	15.133	540	J	
09		Unknown-07	15.206	760	J	
10		Unknown-08	15.413	460	J	
11	6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	15.705	450	NJ	NJ
	E966796[1]	Total Alkanes	N/A			

[1] EPA-designated Registry Number.

RW 11/25/08

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1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1K0039.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 17 Date Analyzed: 10/08/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5.8	~~U~~ R
74-87-3	Chloromethane	5.8	U
75-01-4	Vinyl chloride	5.8	U
74-83-9	Bromomethane	5.8	U
75-00-3	Chloroethane	5.8	U
75-69-4	Trichlorofluoromethane	5.8	U
75-35-4	1,1-Dichloroethene	5.8	U
67-64-1	Acetone	3.3	~~B~~ J
74-88-4	Iodomethane	5.8	U
75-15-0	Carbon disulfide	5.8	U
75-09-2	Methylene chloride	5.8 ~~1.6~~	~~BJ~~
156-60-5	trans-1,2-Dichloroethene	5.8	U
1634-04-4	Methyl tert-butyl ether	5.8	U
75-34-3	1,1-Dichloroethane	5.8	U
108-05-4	Vinyl acetate	5.8	U
78-93-3	2-Butanone	5.8	~~U~~ R
156-59-2	cis-1,2-Dichloroethene	5.8	U
594-20-7	2,2-Dichloropropane	5.8	U
74-97-5	Bromochloromethane	5.8	U
67-66-3	Chloroform	5.8	U
71-55-6	1,1,1-Trichloroethane	5.8	U
563-58-6	1,1-Dichloropropene	5.8	U
56-23-5	Carbon tetrachloride	5.8	U
107-06-2	1,2-Dichloroethane	5.8	U
71-43-2	Benzene	5.8	U
79-01-6	Trichloroethene	5.1	J
78-87-5	1,2-Dichloropropane	5.8	U
74-95-3	Dibromomethane	5.8	U
75-27-4	Bromodichloromethane	5.8	U
10061-01-5	cis-1,3-Dichloropropene	5.8	U
108-10-1	4-Methyl-2-pentanone	5.8	U
108-88-3	Toluene	4.2	J
10061-02-6	trans-1,3-Dichloropropene	5.8	U
79-00-5	1,1,2-Trichloroethane	5.8	U
142-28-9	1,3-Dichloropropane	5.8	U

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SW846

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1K0039.D

Level: (TRACE/LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 17 Date Analyzed: 10/08/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	5.8	U
591-78-6	2-Hexanone	5.8	U
124-48-1	Dibromochloromethane	5.8	U
106-93-4	1,2-Dibromoethane	5.8	U
108-90-7	Chlorobenzene	5.8	U
630-20-6	1,1,1,2-Tetrachloroethane	5.8	U
100-41-4	Ethylbenzene	5.8	U
1330-20-7	m,p-Xylene	5.8	U
95-47-6	o-Xylene	5.8	U
1330-20-7	Xylene (Total)	5.8	U
100-42-5	Styrene	5.8	U
75-25-2	Bromoform	5.8	U
98-82-8	Isopropylbenzene	5.8	U
79-34-5	1,1,2,2-Tetrachloroethane	5.8	U
108-86-1	Bromobenzene	5.8	U
96-18-4	1,2,3-Trichloropropane	5.8	U
103-65-1	n-Propylbenzene	5.8	U
95-49-8	2-Chlorotoluene	5.8	U
108-67-8	1,3,5-Trimethylbenzene	5.8	U
106-43-4	4-Chlorotoluene	5.8	U
98-06-6	tert-Butylbenzene	5.8	U
95-63-6	1,2,4-Trimethylbenzene	5.8	U
135-98-8	sec-Butylbenzene	5.8	U
99-87-6	4-Isopropyltoluene	5.8	U
541-73-1	1,3-Dichlorobenzene	5.8	U
106-46-7	1,4-Dichlorobenzene	5.8	U
104-51-8	n-Butylbenzene	5.8	U
95-50-1	1,2-Dichlorobenzene	5.8	U
96-12-8	1,2-Dibromo-3-chloropropane	5.8	U
120-82-1	1,2,4-Trichlorobenzene	5.8	U
87-68-3	Hexachlorobutadiene	5.8	U
87-61-6	1,2,3-Trichlorobenzene	5.8	U
91-20-3	Naphthalene	5.8	U

JW 11/12/08

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12B

Sample wt/vol: 5.20 (g/mL) G Lab File ID: V1K0039.D

Level: (TRACE or LOW/MED) LOW Date Received: 10/02/2008

% Moisture: not dec. 17 Date Analyzed: 10/08/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01		Unknown-01	15.482	15	J	J
02		Unknown-02	15.826	23	J	
03		Unknown-03	16.260	12	J	
04		Unknown-04	16.388	14	J	
05		Unknown-05	16.516	71	J	
06	80655-44-3	Decahydro-4,4,8,9,10-pentame	17.107	12	NJ	NJ
07		Unknown-06	17.324	31	J	J
08		Unknown-07	17.502	20	J	
09		Unknown-08	17.659	64	J	
10		Unknown-09	18.506	13	J	
11		Unknown-10	18.694	10	J	
	E966796[1]	Total Alkanes	N/A			

[1] EPA-designated Registry Number.

lw
4/25/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-17 (5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F3104.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	Bis(2-chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
111-91-1	Bis(2-chloroethoxy)methane	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	890	U
83-32-9	Acenaphthene	440	U
51-28-5	2,4-Dinitrophenol	890	~~U~~ R
100-02-7	4-Nitrophenol	890	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U

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MW 11/25/08

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-17 (5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F3104.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	890	U
534-52-1	4,6-Dinitro-2-methylphenol	890	~~U~~ UJ
86-30-6	N-Nitrosodiphenylamine	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	890	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	Bis(2-ethylhexyl)phthalate	440	U
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenzo(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9-32-131-SB-17 (5-6)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-03A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S3F3104.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 25 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01	2156-97-0	Dodecyl acrylate	10.719	690	~~NJ~~	NJ
02	6380-71-8	Propanoic acid, 3-mercapto-,	12.145	220	~~NJ~~	↓
03	301-02-0	9-Octadecenamide, (Z)-	13.267	490	~~NJ~~	↓
04		Unknown-01	14.165	7000	~~J~~	J
05		Unknown-02	14.368	200	~~J~~	J
	E966796 [2]	Total Alkanes	N/A			

[2] EPA-designated Registry Number.

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KW 11/25/08

1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 2

9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F3105.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	Bis(2-chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
111-91-1	Bis(2-chloroethoxy)methane	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	99	J
77-47-4	Hexachlorocyclopentadiene	450	~~U~~ R
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	920	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	180	J
51-28-5	2,4-Dinitrophenol	920	~~U~~ R
100-02-7	4-Nitrophenol	920	~~U~~ R
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F3105.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	920	~~U~~ UJ
534-52-1	4,6-Dinitro-2-methylphenol	920	~~U~~ UJ
86-30-6	N-Nitrosodiphenylamine	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	150	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	220	J
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	150	J
117-81-7	Bis(2-ethylhexyl)phthalate	450	U
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenzo(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

LW 11/25/08

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
9-32-131-SB-18(4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-04A

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3F3105.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 28 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
01		Unknown-01	5.503	420	J	J
02		Unknown-02	5.749	390	J	
03		Unknown-03	5.893	800	J	
04		Unknown-04	5.947	390	J	
05	31081-18-2	Nonane, 3-methyl-5-propyl-	5.984	500	NJ	NJ
06		Unknown-05	6.048	750	J	J
07		Unknown-06	6.134	610	J	
08		Unknown-07	6.283	580	J	
09		Unknown-08	6.369	1400	J	
10		Unknown-09	6.411	370	J	
11		Unknown-10	6.470	520	J	
12		Unknown-11	6.620	850	J	
13		Unknown-12	6.812	430	J	
14		Unknown-13	7.090	490	J	
15		Unknown-14	7.122	980	J	
16		Unknown-15	7.181	620	J	
17		Unknown-16	7.336	1200	J	
18		Unknown-17	7.469	820	J	
19		Unknown-18	8.297	1200	J	
20		Unknown-19	8.869	1300	J	
	E966796 [2]	Total Alkanes	N/A			

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 3

9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3108.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	470	U
111-44-4	Bis(2-chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
541-73-1	1,3-Dichlorobenzene	470	U
106-46-7	1,4-Dichlorobenzene	470	U
95-50-1	1,2-Dichlorobenzene	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
106-44-5	4-Methylphenol	470	U
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	470	U
120-83-2	2,4-Dichlorophenol	470	U
120-82-1	1,2,4-Trichlorobenzene	470	U
91-20-3	Naphthalene	450	J
106-47-8	4-Chloroaniline	470	U
111-91-1	Bis(2-chloroethoxy)methane	470	U
87-68-3	Hexachlorobutadiene	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	210	J
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	960	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	960	U
131-11-3	Dimethylphthalate	470	U
208-96-8	Acenaphthylene	470	U
606-20-2	2,6-Dinitrotoluene	470	U
99-09-2	3-Nitroaniline	960	U
83-32-9	Acenaphthene	1500	
51-28-5	2,4-Dinitrophenol	960	~~U~~ R
100-02-7	4-Nitrophenol	960	U
132-64-9	Dibenzofuran	290	J
121-14-2	2,4-Dinitrotoluene	470	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3108.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	470	U
7005-72-3	4-Chlorophenyl-phenylether	470	U
86-73-7	Fluorene	1700	
100-01-6	4-Nitroaniline	960	U
534-52-1	4,6-Dinitro-2-methylphenol	960	~~U~~ UJ
86-30-6	N-Nitrosodiphenylamine	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
87-86-5	Pentachlorophenol	960	U
85-01-8	Phenanthrene	1100	
120-12-7	Anthracene	1200	
86-74-8	Carbazole	470	U
84-74-2	Di-n-butylphthalate	470	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	470	U
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	400	J
218-01-9	Chrysene	490	
117-81-7	Bis(2-ethylhexyl)phthalate	470	U
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	230	J
207-08-9	Benzo(k)fluoranthene	470	U
50-32-8	Benzo(a)pyrene	210	J
193-39-5	Indeno(1,2,3-cd)pyrene	470	U
53-70-3	Dibenzo(a,h)anthracene	470	U
191-24-2	Benzo(g,h,i)perylene	470	U

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9-32-131-SB-19 (4-7)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-05A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3108.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 31 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/03/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/08/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	5617-41-4	Heptylcyclohexane	7.488	3700	~~NJ~~ NJ
02		Unknown-01	7.696	1900	J J
03		Unknown-02	7.835	4100	J J
04	25117-24-2	Tetradecane, 4-methyl-	8.156	1800	NJ NJ
05		Unknown-03	8.508	2300	J J
06	1795-15-9	Cyclohexane, octyl-	8.748	4000	NJ NJ
07		Unknown-04	8.861	7400	J J
08		Unknown-05	9.267	1800	J
09		Unknown-06	9.309	2900	J
10	2131-42-2	Naphthalene, 1,4,6-trimethyl	9.667	1800	NJ NJ
11	2245-38-7	Naphthalene, 1,6,7-trimethyl	9.790	2700	NJ NJ
12		Unknown-07	9.881	2100	J J
13		Unknown-08	10.057	1800	J J
14		Unknown-09	10.736	2600	J J
15	1921-70-6	Pentadecane, 2,6,10,14-tetra	10.795	6600	NJ NJ
16		Unknown-10	10.816	3400	J J
17		Unknown-11	10.880	3300	J J
18	638-36-8	Hexadecane, 2,6,10,14-tetram	11.302	4200	NJ NJ
19	629-94-7	Heneicosane	11.660	2700	NJ
20	2789-88-0	di-p-Tolylacetylene	12.328	2800	NJ
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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1D - FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3134.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/07/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/09/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	Bis(2-chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	Bis(2-chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U
51-28-5	2,4-Dinitrophenol	790	~~U~~ R
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U

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1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 4

9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3134.D

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/07/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/09/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	~~U~~ UJ
86-30-6	N-Nitrosodiphenylamine	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

NW 11/28/08

SW846

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9-32-131-SB-23S (3-4)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1711

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: G1711-12A

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S3F3134.D

Level: (TRACE or LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 10/02/2008

Concentrated Extract Volume: 1000 (uL) Date Extracted: 10/07/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Date Analyzed: 10/09/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	14.323	230	J J
	E966796 [2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-15S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-01

Level (low/med): MED Date Received: 10/02/2008

% Solids: 82.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22300			P
7440-36-0	Antimony	0.16	~~U~~	~~N~~ UJ	P
7440-38-2	Arsenic	2.4			P
7440-39-3	Barium	72.4		~~*~~	P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.28 ~~0.14~~	~~B~~	U	P
7440-70-2	Calcium	31400			P
7440-47-3	Chromium	28.3			P
7440-48-4	Cobalt	8.0		~~E~~ J	P
7440-50-8	Copper	24.1			P
7439-89-6	Iron	32400			P
7439-92-1	Lead	14.8			P
7439-95-4	Magnesium	12500			P
7439-96-5	Manganese	311		~~E~~ J	P
7439-97-6	Mercury	0.038 ~~0.018~~	~~B~~	U	CV
7440-02-0	Nickel	25.8		~~E~~ J	P
7440-09-7	Potassium	3700		~~*~~	P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	230			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	33.6			P
7440-66-6	Zinc	60.3		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-16S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-02

Level (low/med): MED Date Received: 10/02/2008

% Solids: 75.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300			P
7440-36-0	Antimony	0.16	~~U~~	~~N~~ UJ	P
7440-38-2	Arsenic	5.4			P
7440-39-3	Barium	70.1		~~*~~	P
7440-41-7	Beryllium	0.49			P
7440-43-9	Cadmium	0.28 ~~0.13~~	~~B~~	U	P
7440-70-2	Calcium	55500			P
7440-47-3	Chromium	15.1			P
7440-48-4	Cobalt	9.6		~~E~~ J	P
7440-50-8	Copper	22.2			P
7439-89-6	Iron	24500			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	8620			P
7439-96-5	Manganese	859		~~E~~ J	P
7439-97-6	Mercury	0.042 ~~0.017~~	~~B~~	U	CV
7440-02-0	Nickel	20.9		~~E~~ J	P
7440-09-7	Potassium	2030		~~*~~	P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	144			P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	22.4			P
7440-66-6	Zinc	42.3		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-20S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-06

Level (low/med): MED Date Received: 10/02/2008

% Solids: 80.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22900			P
7440-36-0	Antimony	1.0 ~~0.24~~	~~B~~	~~N~~ UJ	P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	266			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.67			P
7440-70-2	Calcium	4150			P
7440-47-3	Chromium	29.8			P
7440-48-4	Cobalt	16.0		~~E~~ J	P
7440-50-8	Copper	42.3			P
7439-89-6	Iron	41900			P
7439-92-1	Lead	11.8			P
7439-95-4	Magnesium	7380			P
7439-96-5	Manganese	272		~~E~~ J	P
7439-97-6	Mercury	0.043		U	CV
7440-02-0	Nickel	35.7		~~E~~ J	P
7440-09-7	Potassium	3430			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	77.2			P
7440-28-0	Thallium	0.36	U		P
7440-62-2	Vanadium	45.7			P
7440-66-6	Zinc	309		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-17S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-07

Level (low/med): MED Date Received: 10/02/2008

% Solids: 84.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11000			P
7440-36-0	Antimony	0.14	~~U~~	~~N~~ UJ	P
7440-38-2	Arsenic	2.8			P
7440-39-3	Barium	76.3		~~*~~	P
7440-41-7	Beryllium	0.40			P
7440-43-9	Cadmium	0.25 ~~0.088~~	~~B~~	U	P
7440-70-2	Calcium	2670			P
7440-47-3	Chromium	9.1			P
7440-48-4	Cobalt	5.6		~~E~~ J	P
7440-50-8	Copper	17.3			P
7439-89-6	Iron	14900			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	2570			P
7439-96-5	Manganese	762		~~E~~ J	P
7439-97-6	Mercury	0.045		U	CV
7440-02-0	Nickel	11.1		~~E~~ J	P
7440-09-7	Potassium	806		~~*~~	P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	43.5	~~B~~	J	P
7440-28-0	Thallium	0.35	U		P
7440-62-2	Vanadium	19.1			P
7440-66-6	Zinc	30.3		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-18S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-08

Level (low/med): MED Date Received: 10/02/2008

% Solids: 89.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8330			P
7440-36-0	Antimony	1.1 ~~0.30~~	~~B~~	~~N~~ UJ	P
7440-38-2	Arsenic	2.6			P
7440-39-3	Barium	62.8		~~*~~	P
7440-41-7	Beryllium	0.25	~~B~~	J	P
7440-43-9	Cadmium	0.28 ~~0.065~~	~~B~~	U	P
7440-70-2	Calcium	1320			P
7440-47-3	Chromium	7.6			P
7440-48-4	Cobalt	3.6		~~E~~ J	P
7440-50-8	Copper	19.4			P
7439-89-6	Iron	13300			P
7439-92-1	Lead	15.6			P
7439-95-4	Magnesium	2110			P
7439-96-5	Manganese	239		~~E~~ J	P
7439-97-6	Mercury	0.035 ~~0.031~~	~~B~~	U	CV
7440-02-0	Nickel	9.0		~~E~~ J	P
7440-09-7	Potassium	642		~~*~~	P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	33.7	~~B~~	J	P
7440-28-0	Thallium	0.39	U		P
7440-62-2	Vanadium	14.8			P
7440-66-6	Zinc	45.0		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-21S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-10

Level (low/med): MED Date Received: 10/02/2008

% Solids: 77.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14200			P
7440-36-0	Antimony	1.2		~~N~~ UJ	P
7440-38-2	Arsenic	3.7			P
7440-39-3	Barium	137		~~E~~	P
7440-41-7	Beryllium	0.63			P
7440-43-9	Cadmium	0.24		~~E~~ J	P
7440-70-2	Calcium	19100			P
7440-47-3	Chromium	17.3			P
7440-48-4	Cobalt	6.9		~~E~~ J	P
7440-50-8	Copper	32.4			P
7439-89-6	Iron	18500			P
7439-92-1	Lead	247			P
7439-95-4	Magnesium	5650			P
7439-96-5	Manganese	496		~~E~~ J	P
7439-97-6	Mercury	0.043		U	CV
7440-02-0	Nickel	18.4		~~E~~ J	P
7440-09-7	Potassium	1420		~~E~~	P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	145			P
7440-28-0	Thallium	0.36	U		P
7440-62-2	Vanadium	25.4			P
7440-66-6	Zinc	252		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-22S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-11

Level (low/med): MED Date Received: 10/02/2008

% Solids: 79.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	20.6		~~N~~ J	P
7440-38-2	Arsenic	40.4			P
7440-39-3	Barium	125		~~*~~	P
7440-41-7	Beryllium	0.50			P
7440-43-9	Cadmium	3.3			P
7440-70-2	Calcium	37100			P
7440-47-3	Chromium	33.6			P
7440-48-4	Cobalt	11.4		~~E~~ J	P
7440-50-8	Copper	421			P
7439-89-6	Iron	78900			P
7439-92-1	Lead	2160			P
7439-95-4	Magnesium	6870			P
7439-96-5	Manganese	862		~~E~~ J	P
7439-97-6	Mercury	0.27			CV
7440-02-0	Nickel	47.4		~~E~~ J	P
7440-09-7	Potassium	1510		~~*~~	P
7782-49-2	Selenium	0.73	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	326			P
7440-28-0	Thallium	0.43	U		P
7440-62-2	Vanadium	27.9			P
7440-66-6	Zinc	688		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSMT COMPOSITE

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-13

Level (low/med): MED Date Received: 10/02/2008

% Solids: 46.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4580			P
7440-36-0	Antimony	1660		~~N~~ J	P
7440-38-2	Arsenic	185			P
7440-39-3	Barium	1060		~~*~~	P
7440-41-7	Beryllium	0.27	~~B~~	J	P
7440-43-9	Cadmium	117			P
7440-70-2	Calcium	24400			P
7440-47-3	Chromium	145			P
7440-48-4	Cobalt	13.8		~~E~~ J	P
7440-50-8	Copper	407			P
7439-89-6	Iron	201000			P
7439-92-1	Lead	103000			P
7439-95-4	Magnesium	5380			P
7439-96-5	Manganese	959		~~E~~ J	P
7439-97-6	Mercury	1.7			CV
7440-02-0	Nickel	129		~~E~~ J	P
7440-09-7	Potassium	700		~~*~~	P
7782-49-2	Selenium	2.3	~~B~~	J	P
7440-22-4	Silver	18.8			P
7440-23-5	Sodium	491			P
7440-28-0	Thallium	0.74	U		P
7440-62-2	Vanadium	16.1			P
7440-66-6	Zinc	4140		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPLICATE -02

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-14

Level (low/med): MED Date Received: 10/02/2008

% Solids: 69.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29800		J	P
7440-36-0	Antimony	1.2 ~~0.65~~	~~B~~	~~N~~ UJ	P
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	227			P
7440-41-7	Beryllium	1.4			P
7440-43-9	Cadmium	0.27	~~B~~	J	P
7440-70-2	Calcium	11500		J	P
7440-47-3	Chromium	32.0		J	P
7440-48-4	Cobalt	11.6		~~E~~ J	P
7440-50-8	Copper	20.3		J	P
7439-89-6	Iron	39300			P
7439-92-1	Lead	115		J	P
7439-95-4	Magnesium	7800			P
7439-96-5	Manganese	286		~~E~~ J	P
7439-97-6	Mercury	0.062 ~~0.062~~		J	CV
7440-02-0	Nickel	30.5		~~E~~ J	P
7440-09-7	Potassium	2280		*	P
7782-49-2	Selenium	0.72	U		P
7440-22-4	Silver	0.13	U		P
7440-23-5	Sodium	176			P
7440-28-0	Thallium	0.42	U		P
7440-62-2	Vanadium	42.1		J	P
7440-66-6	Zinc	210		~~E~~ J	P

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

9-32-131-SB-23S

Lab Name: Mitkem Laboratories Contract: 14368.11

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1711

Matrix (soil/water): SOIL Lab Sample ID: G1711-15

Level (low/med): MED Date Received: 10/02/2008

% Solids: 80.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200			P
7440-36-0	Antimony	1.1 ~~0.15~~	~~B~~	~~N~~ UJ	P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	105		~~E~~	P
7440-41-7	Beryllium	0.53			P
7440-43-9	Cadmium	0.27 ~~0.12~~	~~B~~	U	P
7440-70-2	Calcium	62900			P
7440-47-3	Chromium	16.5			P
7440-48-4	Cobalt	9.9		~~E~~ J	P
7440-50-8	Copper	19.8			P
7439-89-6	Iron	24600			P
7439-92-1	Lead	8.8			P
7439-95-4	Magnesium	10200			P
7439-96-5	Manganese	789		~~E~~ J	P
7439-97-6	Mercury	0.039 ~~0.022~~	~~B~~	U	CV
7440-02-0	Nickel	20.3		~~E~~ J	P
7440-09-7	Potassium	2430		~~E~~	P
7782-49-2	Selenium	0.66	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	144			P
7440-28-0	Thallium	0.38	U		P
7440-62-2	Vanadium	23.3			P
7440-66-6	Zinc	41.5		~~E~~ J	P

Comments: