



Analytical Results

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LL #11 IRA

RVAAP LOAD LINE 11 IRA SAMPLING LAB PROJECT NUMBERS -

RAVENNA ARMY AMMUNITION PLANT

SITE	ID		COMM	SAMPLE DATE	LAB PROJECT # (Chicago)	LAB PROJECT # (Sacramento) <i>Propellants</i>	SITE	ID		COMM	SAMPLE DATE	LAB PROJECT # (Chicago)
SUMP SEDIMENTS							SUMP EXCAVATION					
LL 11	SD-001	0001-SD	Not Sampled	31-Jul-00	N/A		LL11	CS-001	0001-SO		24-Jan-01	201732
	SD-002	0001-SD	Not Sampled	31-Jul-00	N/A			CS-002	0001-SO		26-Jan-01	201756
	SD-002	0001-SD		02-Aug-00	9A08G317			CS-003	0001-SO		26-Jan-01	201756
	SD-003	0001-SD	Not Sampled	31-Jul-00	N/A			CS-004	0001-SO		21-Feb-01	202106
	SD-003	0001-SD		02-Aug-00	9A08G317			CS-005	0001-SO		21-Feb-01	202106
	SD-004	0001-SD	Not Sampled	31-Jul-00	N/A		DITCH EXCAVATION					
	SD-005	0001-SD		09-Oct-00	9A10G777		LL11	CS-006	0001-SD		21-Mar-01	202491
SEWER SEDIMENTS								CS-007	0001-SO		21-Mar-01	202491
LL 11	SD-006	0001-SD	Not Sampled	31-Jul-00	N/A			CS-008	0001-SO		21-Mar-01	202491
	SD-007	0001-SD		31-Jul-00	9A08G300			CS-009	0001-SO		21-Mar-01	202491
	SD-008	0001-SD		01-Aug-00	9A08G307			CS-010	0001-SD		21-Mar-01	202491
	SD-009	0001-SD		01-Aug-00	9A08G307			CS-011	0001-SD		23-Mar-01	202539
	SD-010	0001-SD		31-Jul-00	9A08G300			CS-012	0001-SO		23-Mar-01	202539
	SD-011	0001-SD		01-Aug-00	9A08G307			CS-013	0001-SO		23-Mar-01	202539
DITCH SEDIMENT								CS-014	0001-SO		23-Mar-01	202539
LL 11	SD-012	0001-SD	Not Sampled	15-Nov-00	N/A			CS-015	0001-SD		23-Mar-01	202539
	SD-013	0001-SD		15-Nov-00	9A11G977			CS-016	0001-SD		23-Mar-01	202539
	SD-014	0001-SD		14-Nov-00	9A11G969			CS-017	0001-SO		23-Mar-01	202539
	SD-015	0001-SD		14-Nov-00	9A11G969			CS-018	0001-SO		23-Mar-01	202539
	SD-016	0001-SD		14-Nov-00	9A11G969			CS-019	0001-SO		23-Mar-01	202539
	SD-017	0001-SD		15-Nov-00	9A11G977	9A11G978		CS-020	0001-SD		23-Mar-01	202539
	SD-018	0001-SD		15-Nov-00	9A11G977			CS-021	0001-SD		21-Mar-01	202491
	SD-019	0001-SD		15-Nov-00	9A11G977			CS-022	0001-SO		21-Mar-01	202491
	SD-020	0001-SD		15-Nov-00	9A11G977			CS-023	0001-SO		21-Mar-01	202491
	SD-021	0001-SD		16-Nov-00	9A11G988			CS-024	0001-SO		21-Mar-01	202491
	SD-022	0001-SD		15-Nov-00	9A11G977			CS-025	0001-SD		21-Mar-01	202491
	SD-023	0001-SD		15-Nov-00	9A11G977			CS-026	0001-SD		21-Mar-01	202491
	SD-024	0001-SD		24-Nov-00	9A11G988			CS-027	0001-SO		21-Mar-01	202491
	SD-025	0001-SD		16-Nov-00	9A11G988			CS-028	0001-SO		21-Mar-01	202491
	SD-026	0001-SD		16-Nov-00	9A11G988			CS-029	0001-SO		21-Mar-01	202491
	SD-027	0001-SD		15-Nov-00	9A11G977			CS-030	0001-SD		21-Mar-01	202491
	SD-028	0001-SD		15-Nov-00	9A11G977			CS-031	0001-SD		20-Mar-01	202478
	SD-029	0001-SD		16-Nov-00	9A11G988	9A11G978		CS-032	0001-SO		20-Mar-01	202478
	SD-030	0001-SD		16-Nov-00	9A11G988			CS-033	0001-SO		20-Mar-01	202478
	SD-031	0001-SD		06-Nov-00	9A11G988			CS-034	0001-SO		20-Mar-01	202478
	SD-032	0001-SD		16-Nov-00	9A11G988	9A11G978		CS-035	0001-SO		20-Mar-01	202478
	SD-033	0001-SD		16-Nov-00	9A11G988			CS-036	0001-SO		20-Mar-01	202478
								CS-037	0001-SO		20-Mar-01	202478
								CS-038	0001-SO		20-Mar-01	202478
								CS-039	0001-SD		20-Mar-01	202478
							HOT SPOT EXCAVATION					
LL11	CS-040	0001-SO		22-Mar-01	202520			CS-041	0001-SO		22-Mar-01	202520
	CS-041	0001-SO		22-Mar-01	202520			CS-042	0001-SO		22-Mar-01	202520
	CS-042	0001-SO		22-Mar-01	202520			CS-043	0001-SO		22-Mar-01	202520
	CS-043	0001-SO		22-Mar-01	202520			CS-044	0001-SO		22-Mar-01	202520
	CS-044	0001-SO		22-Mar-01	202520			CS-045	0001-SO		22-Mar-01	202520
							TEST PITS					
LL11	CS-046	0001-SO		21-Mar-01	202520			CS-047	0001-SO		21-Mar-01	202520
	CS-047	0001-SO		21-Mar-01	202520			CS-048	0001-SO		21-Mar-01	202520
	CS-048	0001-SO		21-Mar-01	202520			CS-049	0001-SO		21-Mar-01	202520
	CS-049	0001-SO		21-Mar-01	202520			CS-050	0001-SO		22-Mar-01	202539
							SUMP LINER					
LL-11	ACM-001	0001		26-Jan-01	1-0022		DISPOSAL WASTE CHARACTERIZATION					
LL 11	WD1	0001-DL		21-Mar-01	202491			WD2	0001-SO		22-Mar-01	202520
	WD2	0001-SO		22-Mar-01	202520			WD3	0001-SO		23-Mar-01	202539
	WD3	0001-SO		23-Mar-01	202539			WD4	0001-SO		23-Mar-01	202539
	WD4	0001-SO		23-Mar-01	202539							

TABLE 1.0
OFF-SITE BACKFILL SAMPLE RESULTS - RVAAP
SOURCE - TRUCK PARTS 5839 RT. 5 RAVENNA, OHIO

ANALYTE**, UNITS, METHOD NO.	Background Criteria (> 1 foot) mg/kg	PRGs (Residential) mg/kg	LL01-offsitefill-001
Sample Date			6/23/00
Explosives 8330 mg/kg			
1,3,5-Trinitrobenzene	--	1800	BRL
1,3-Dinitrobenzene	--	6.1	BRL
2,4,6-Trinitrotoluene	--	16	BRL
2,4-Dinitrotoluene	--	120	BRL
2,6-dinitrotoluene	--	61	BRL
2-Nitrotoluene	--	370	BRL
3-Nitrotoluene	--	370	BRL
4-Nitrotoluene	--	370	BRL
HMX	--	--	BRL
Nitrobenzene	--	20	BRL
RDX	--	4.4	BRL
Tetryl	--	--	BRL
TAL Metals 6010B mg/kg			
Silver	0.00	390.00	BRL
Aluminum	19500.00	76000.00	11200
Arsenic	19.80	22.00	16.3
Barium	124.00	5400.00	48.4
Beryllium	0.88	150.00	0.74
Calcium	35500.00	--	903
Cadmium	0.00	37.00	BRL
Cobalt	23.20	4700.00	12.1
Chromium	27.20	30.00	14.10
Copper	32.30	2900.00	17.1
Iron	35200.00	23000.00	22100
Mercury	0.04	23.00	BRL
Potassium	3350.00	--	1470
Magnesium	8790.00	--	2690
Manganese	3030.00	1800.00	449
Sodium	145.00	--	739
Nickel	60.70	--	18.3
Lead	19.10	400.00	15.1
Antimony	0.96	31.00	BRL
Selenium	1.50	390.00	BRL
Thallium	0.91	6.30	BRL
Vanadium	37.60	550.00	20.3
Zinc	93.30	23000.00	49.1

TABLE 1.0
OFF-SITE BACKFILL SAMPLE RESULTS - RVAAP
SOURCE - TRUCK PARTS 5839 RT. 5 RAVENNA, OHIO

ANALYTE**, UNITS, METHOD NO.	Background Criteria (> 1 foot) mg/kg	PRGs (Residential) mg/kg	LL01-offsitefill-001
Sample Date			6/23/00
Cyanide mg/kg			
Cyanide, Total	0.00	1200.00	BRL
Propellants 8330 ug/kg			
Nitroglycerin	--	35.00	ND
Nitroguanidine	--	6100.00	ND
Nitrocellulose - mg/kg	--	--	ND
VOCs TCL 8260B mg/kg			
Acetone	--	1600.00	BRL
Carbon Disulfide	--	360.00	BRL
Methylene Chloride	--	8.9	BRL
SVOCs TCL 8270 C mg/kg			
Fluoranthene	0.290	--	BRL
Phenanthrene	0.150	--	BRL
Pyrene	0.230	--	BRL
Pesticides TCL 8081A mg/kg			
alpha-BHC	--	--	BRL
beta-BHC	--	--	BRL
delta-BHC	--	--	BRL
gamma-BHC (Lindane)	--	--	BRL
Heptachlor	--	0.11	BRL
Aldrin	--	0.029	BRL
Heptachlor epoxide	--	0.053	BRL
Endosulfan I	--	370	BRL
Dieldrin	--	0.03	BRL
4,4-DDE	--	1.7	BRL
Endosulfan II		--	BRL
4,4-DDD		2.4	BRL
Endrin	--	18	BRL
Endosulfan sulfate	--	--	BRL
4,4-DDT	--	1.7	BRL
Methoxychlor	--	310	BRL
Endrin ketone	--	--	BRL
Endrin aldehyde	--	--	BRL
alpha-Chlordane	--	1.6	BRL
gamma-Chlordane	--	1.6	BRL
Toxaphene	--	0.44	BRL

TABLE 1.0
OFF-SITE BACKFILL SAMPLE RESULTS - RVAAP
SOURCE - TRUCK PARTS 5839 RT. 5 RAVENNA, OHIO

ANALYTE**, UNITS, METHOD NO.	Background Criteria (> 1 foot) mg/kg	PRGs (Residential) mg/kg	LL01-offsitefill-001
Sample Date			6/23/00
PCB TCL 8082 mg/kg			
Aroclor-1016	--	3.90	BRL
Aroclor-1221	--	0.22	BRL
Aroclor-1232	--	0.22	BRL
Aroclor-1242	--	0.22	BRL
Aroclor-1248	--	0.22	BRL
Aroclor-1254	--	0.22	BRL
Aroclor-1260	--	0.22	BRL

** = Only detected compounds listed

-- = Data not available

ND = Not Detected - below laboratory detection limits

BRL = Below reporting Limits

mg/kg = milligrams per kilogram (parts per million - ppm)

= concentration greater than background

EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G894

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II. DATA SUMMARY

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

SOLID, 8330, Nitroglycerine only

STL Chicago

Client Sample ID: LL01-OFFSITEFILL-0001

HPLC

Lot-Sample #....: G0F270239-001 Work Order #....: DFDA2104 Matrix.....: SOLID
 Date Sampled...: 06/23/00 Date Received...: 06/27/00
 Prep Date.....: 07/03/00 Analysis Date...: 07/21/00
 Prep Batch #....: 0185109
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	98	(79 - 120)

SOLID, UV/HPLC *per* SOP, Nitroguanidine

STL Chicago

Client Sample ID: LL01-OFFSITEFILL-0001

Trace Level Organic Compounds

Lot-Sample #....: G0F270239-001 Work Order #....: DFDA2101 Matrix.....: SOLID
Date Sampled...: 06/23/00 Date Received...: 06/27/00
Prep Date.....: 07/05/00 Analysis Date...: 07/08/00
Prep Batch #....: 0188285
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

SOLID, 353.2, Nitrocellulose

STL Chicago

Client Sample ID: LL01-OFFSITEFILL-0001

General Chemistry

Lot-Sample #....: G0F270239-001

Work Order #....: DFDA2

Matrix.....: SOLID

Date Sampled....: 06/23/00

Date Received...: 06/27/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	2.3	mg/kg	MCAWW 353.2	07/07-07/11/00	0192480

Dilution Factor: 1

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QC DATA ASSOCIATION SUMMARY

G0F270239

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 8330		0185109	
	SOLID	ASTM D 2216-90		0181326	
	SOLID	NONE UV/HPLC per		0188285	0188099
	SOLID	MCAWW 353.2		0192480	0192249

**METALS DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A06G894**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Monday July 17th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	86.2	%	0.10
Cyanide, Total	0.47	u mg/kg	0.47
Silver, Total	0.36	u mg/kg	0.36
Aluminum, Total	11200	mg/kg	14.5
Arsenic, Total	16.3	mg/kg	0.87
Barium, Total	48.4	mg/kg	0.73
Beryllium, Total	0.74	mg/kg	0.29
Calcium, Total	903	mg/kg	7.3
Cadmium, Total	0.15	u mg/kg	0.15
Cobalt, Total	12.1	mg/kg	0.36
Chromium, Total	14.1	mg/kg	0.73
Copper, Total	17.5	mg/kg	1.5
Iron, Total	22100	mg/kg	3.6
Mercury, Total	0.04	u mg/kg	0.04
Potassium, Total	1470	mg/kg	36.3
Magnesium, Total	2690	mg/kg	7.3
Manganese, Total	449	mg/kg	0.36

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Monday July 17th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Sodium, Total	739	mg/kg	72.5
Nickel, Total	18.3	mg/kg	0.73
Lead, Total	15.1	mg/kg	0.87
Antimony, Total	0.26	u mg/kg	0.26
Selenium, Total	0.36	u mg/kg	0.36
Thallium, Total	0.17	u mg/kg	0.17
Vanadium, Total	20.3	mg/kg	0.36
Zinc, Total	49.1	mg/kg	0.73

**VOLATILES BY GC/MS
MKM-RAVENNA AAP
RFW# 9A06G894**

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a. Reconstructed Ion Chromatograms	
b. Quantitation Reports	
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DATA SUMMARY

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

SEMIVOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A06G894

Laboratory Chronicle.....	1
Chain of Custody	2
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I. Case Narrative.....	12
II. Quality Control Summary	15
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C. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Standard Data	
1. Tabulated Results (Form I)	
2. Raw Data	
a. Reconstructed Ion Chromatograms	
b. Quantitation Reports	
D. Extraction Log	
E. Run Log Summary	

DATA SUMMARY

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday July 17th, 2000

Attn: Stan Levenger

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	390	U
bis(2-Chloroethyl)ether	BRL	390	U
2-Chlorophenol	BRL	390	U
1,3-Dichlorobenzene	BRL	390	U
1,4-Dichlorobenzene	BRL	390	U
1,2-Dichlorobenzene	BRL	390	U
2-Methylphenol	BRL	390	U
2,2'-oxybis(1-Chloropropane)	BRL	390	U
N-Nitroso-di-n-propylamine	BRL	390	U
4-Methylphenol	BRL	390	U
Hexachloroethane	BRL	390	U
Isophorone	BRL	390	U
2-Nitrophenol	BRL	390	U
2,4-Dimethylphenol	BRL	390	U
bis(2-Chloroethoxy)methane	BRL	390	U
2,4-Dichlorophenol	BRL	390	U
1,2,4-Trichlorobenzene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday July 17th, 2000

Attn: Stan Levenger

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	390	U
4-Chloroaniline	BRL	390	U
Hexachlorobutadiene	BRL	390	U
4-Chloro-3-methylphenol	BRL	390	U
2-Methylnaphthalene	BRL	390	U
Hexachlorocyclopentadiene	BRL	390	U
2,4,6-Trichlorophenol	BRL	390	U
2,4,5-Trichlorophenol	BRL	970	U
2-Chloronaphthalene	BRL	390	U
2-Nitroaniline	BRL	970	U
Acenaphthylene	BRL	390	U
3-Nitroaniline	BRL	970	U
Acenaphthene	BRL	390	U
2,4-Dinitrophenol	BRL	970	U
Dibenzofuran	BRL	390	U
4-Nitrophenol	BRL	970	U
Fluorene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday July 17th, 2000

Attn: Stan Levenger

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	390	U
Diethylphthalate	BRL	390	U
4-Chlorophenyl-phenylether	BRL	390	U
4-Nitroaniline	BRL	970	U
4,6-Dinitro-2-methylphenol	BRL	970	U
4-Bromophenyl-phenylether	BRL	390	U
Hexachlorobenzene	BRL	390	U
Pentachlorophenol	BRL	970	U
Phenanthrene	BRL	390	U
Anthracene	BRL	390	U
Di-n-butylphthalate	BRL	390	U
Fluoranthene	BRL	390	U
Pyrene	BRL	390	U
Butylbenzylphthalate	BRL	390	U
Benzo(a)anthracene	BRL	390	U
3,3'-Dichlorobenzidine	BRL	390	U
Chrysene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday July 17th, 2000

Attn: Stan Levenger

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	390	U
Di-n-octylphthalate	BRL	390	U
Benzo(b)fluoranthene	BRL	390	U
Benzo(k)fluoranthene	BRL	390	U
Benzo(a)pyrene	BRL	390	U
Indeno(1,2,3-cd)pyrene	BRL	390	U
Dibenzo(a,h)anthracene	BRL	390	U
Benzo(g,h,i)perylene	BRL	390	U
Carbazole	BRL	390	U
N-Nitrosodiphenylamine (1)	BRL	390	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Monday July 17th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

	Retention	Estimated
Semivolatile Compound	Time	Concentration
UNKNOWN KETONE	4.744	23000 JBA

PESTICIDES/PCB DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G894

Laboratory Chronicle	01
I. Chain of Custody.....	2
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II. DATA SUMMARY

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday July 17th, 2000

Attn: Stan Levenger

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.96	U
beta-BHC	BRL	0.96	U
delta-BHC	BRL	0.96	U
gamma-BHC (Lindane)	BRL	0.96	U
Heptachlor	BRL	0.96	U
Aldrin	BRL	0.96	U
Heptachlor epoxide	BRL	0.96	U
Endosulfan I	BRL	0.96	U
Dieldrin	BRL	1.9	U
4,4'-DDE	BRL	1.9	U
Endrin	BRL	1.9	U
Endosulfan II	BRL	1.9	U
4,4'-DDD	BRL	1.9	U
Endosulfan sulfate	BRL	1.9	U
4,4'-DDT	BRL	1.9	U
Methoxychlor	BRL	9.6	U
Endrin ketone	BRL	1.9	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Monday July 17th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	1.9	U
alpha-Chlordane	BRL	0.96	U
gamma-Chlordane	BRL	0.96	U
Toxaphene	BRL	19	U

**PCB DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G894**

Laboratory Chronicle	01
I. Chain of Custody.....	2
II. Data Summary	6
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V. Sample Data Package.....	16
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VII. Raw Quality Control Data Package	70

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Monday July 17th, 2000

RE: LL01-Offsitefill-001
Project # 00000-000-000-0000
Lab ID: 9A06G894-001
Sample Date: 06/23/00
Date Received: 06/24/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	9.6	U
Aroclor-1221	BRL	9.6	U
Aroclor-1232	BRL	9.6	U
Aroclor-1242	BRL	9.6	U
Aroclor-1248	BRL	9.6	U
Aroclor-1254	BRL	9.6	U
Aroclor-1260	BRL	9.6	U

CHAIN OF CUSTODY



Committed to Your Success

Chicago Laboratory

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Levensky

Bill To:

Shaded Areas For Internal Use Only

1 of 2

Contact: Stan
Company: MKM Engineers, Inc.
Address: 8451 St. Rt. 5, Rt. 1038
Kueneburg, OH 44266
Phone: 330.358.2920
Fax: 330.358.2924
E-Mail: _____

Contact: Michelle Burton
Company: MKM Engineers, Inc.
Address: 4453 Buckner Pl.
St. Clair, TX 77477
Phone: 281.277.5100
Fax: _____
PO#: _____
Quote: _____

Lab Lot #
Package Sealed: Yes ☐ No ☐ Samples Sealed: Yes ☐ No ☐
Received on Ice: Yes ☐ No ☐ Samples Intact: Yes ☐ No ☐
Temperature: _____ °C of Cooler: _____
Within Hold Time: Yes ☐ No ☐ Preserv. Indicated: Yes ☐ No ☐
pH Check ok: Yes ☐ No ☐ Res. Cl₂ Check ok: Yes ☐ No ☐
Sample Labels and COC Agree: Yes ☐ No ☐ COC not present: Yes ☐ No ☐

Sample Name:	Project Name:	Project Number:	Date Required:	Hard Copy:	Fax:	Refry #	# Cont.	Volume	Preserv.	Explosives	TAL Metals	Nitrate	Sulfide	Sulfate	Cyanide	Total Lead	Additional Analyses / Remarks
Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>	Lab PM: <u>Ascend</u>
Laboratory ID	Client Sample ID	Sampling Date	Matrix	Comp/Grab	Explosives	TAL Metals	Nitrate	Sulfide	Sulfate	Cyanide	Total Lead						
MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD	MS-MSD
LL11SD-003-0001-SD	7/31	1050	SE	X	X	X	X	X	X	X	X	X	X	X	X	X	SD Samples are sum of
LL11SD-002-0001-SD	7/31	1110	SE	X	X	X	X	X	X	X	X	X	X	X	X	X	Sever Sediment Samples for
LL11SD-007-0001-SD	7/31	1240	SE	X	X	X	X	X	X	X	X	X	X	X	X	X	LL11 RI
LL11SD-010-0001-SD	7/31	1340	SE	X	X	X	X	X	X	X	X	X	X	X	X	X	Preservatives added in
LL11SW-003-0002-SW	7/31	1045	W	G													the field
LL11SW-002-0002-SW	7/31	1110	W	G													SW Samples are
LL11SW-007-0002-SW	7/31	1245	W	G													resamples for Total lead
LL11SW-001-0002-SW	7/31	1310	W	G													- LL11 RI
LL11SW-006-0002-SW	7/31	1315	W	G													
LL11SW-004-0002-SW	7/31	1335	W	G													
LL11SW-010-0002-SW	7/31	1345	W	G													

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key

Container Key

Preservative Key

COMMENTS:

Date Received

Hand Delivered

WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air

SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O =

1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widesmouth Glass
6. Other

1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/ZN Acetate, Cool to 4°
6. Cool to 4°
7. None

Bill of Lading:

Courier:

Hand Delivered



Chicago Laboratory
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Leung

Bill To:

Shaded Areas For Internal Use Only 2 of 2

Contact: Stan
Company: MKM Engineering, Inc.
Address: 8451 St. Rt. S 84th St
Kennosha, OH 44266
Phone: 330.358.2920
Fax: 330.358.2924
E-Mail:

Contact: Michelle Burton
Company: MKM Engineering, Inc.
Address: 4153 Blackhawk Dr
Stafford, TX 77477
Phone: 281.277.5100
Fax: (5)
PO#: (5) Quote:

Lab Lot #	
Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	Samples Intact
Yes No	Yes No
Temperature °C	of Cooler

Signature: S. A. Hall

Refry #

Cont.

Volume

Preserv

1

1

1

1

1

1

1

1

1

Project Name:

Project Number:

Matrix

Comp/Grab

Explosives

Project/Artifacts

SVOLCS

VOLCS

Pat/RB

Nitrate

Sulfide

Cyanide

Sulfate

TAL Metals

Project Location:

Date Required

Hard Copy:

Matrix

Comp/Grab

Explosives

Project/Artifacts

SVOLCS

VOLCS

Pat/RB

Nitrate

Sulfide

Cyanide

Sulfate

TAL Metals

Lab PM:

Date Required

Hard Copy:

Matrix

Comp/Grab

Explosives

Project/Artifacts

SVOLCS

VOLCS

Pat/RB

Nitrate

Sulfide

Cyanide

Sulfate

TAL Metals

Laboratory ID

MS-MSD

Client Sample ID

Sampling Date

Time

Matrix

Comp/Grab

Explosives

Project/Artifacts

SVOLCS

VOLCS

Pat/RB

Nitrate

Sulfide

Cyanide

Sulfate

TAL Metals

Laboratory ID

MS-MSD

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Matrix

Comp/Grab

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VOLCS

Pat/RB

Nitrate

Sulfide

Cyanide

Sulfate

TAL Metals

Laboratory ID

MS-MSD

Client Sample ID

Sampling Date

Time

Matrix



Committed To Your Success

Chicago Laboratory

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Levensgel

Bill To:

Shaded Areas For Internal Use Only

Contact: Stan

Company: MKM Engineers, Inc.

Address: 8451 St. Rt 5 Rt 1038

Racine, OH 44266

Phone: 330.358.2920

Fax: 330.358.2924

Contact: Michelle Burton

Company: MKM Engineers

Address: 4153 Blackhurst Dr.

Stafford TX 77477

Phone: 281.277.5100

Fax:

E-Mail:

Quote:

Lab Lot

Package Sealed Yes No Samples Sealed Yes No

Received on Ice Yes No Samples Intact Yes No

Temperature °C of Cooler

Within Hold Time Yes No Preserv. Indicated Yes No NA

pH Check ok Yes No NA Res. Cl₂ Check ok Yes No NA

Sample Labels and COC Agree

Yes No COC not present

Additional Analyses / Remarks

SD Samples are sent to Scott Sediment Samples Co

LL11 RI

Preserv. added in the field

SWL Samples are samples for total lead for LL11 RI

RELINQUISHED BY

B. C. Hall

COMPANY

DATE

6.1.00

TIME

1600

RECEIVED BY

COMPANY

DATE

TIME

RECEIVED BY

COMPANY

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TIME

RECEIVED BY

COMPANY



Chicago Laboratory
2417 Bond Street
University Park, IL 60455
Phone: 708-534-5200
Fax: 708-534-5211

Report to: Steen Bill to: Michelle R. Luten

Company: MKM Engineers Inc. Contact: Michelle R. Luten

Address: 8451 St. Rt 5, Ravenna, OH 44266

Phone: 330.358.2920

Fax: 330.358.2924

Company: MKM Contact: Michelle R. Luten

Address: 4153 Buckenett Pl. Ste 101, TX 77477

Phone: 281.277.5100

Fax: 281.277.5205

Sampler Name:	Signature:	Project Number:	Date Required:	Hard Copy:	Lab PM:	Client Sample ID	Sampling Date	Matrix	Comp/Grab	Explosives	TAL Metals	Nitrate	Sulfate	Sulfide	Cyanide	SVOC	VOC	Within Hold Time	Preserv. Indicated	pH Check ok	Res. Cl ₂ Check ok	Sample Labels and COC Agree	COC not present	Additional Analyses / Remarks
Brian Stearns	[Signature]	600073	6/21/2007			MS-MSD																		
Project Name: <u>Ravenna</u>																								
Project Location: <u>Ravenna, OH</u>																								
Lab PM: <u>May 17, 2007</u>																								
Laboratory ID																								
MS-MSD																								
Client Sample ID																								
Sampling Date																								
Matrix																								
Comp/Grab																								
Explosives																								
TAL Metals																								
Nitrate																								
Sulfate																								
Sulfide																								
Cyanide																								
SVOC																								
VOC																								
Within Hold Time																								
Preserv. Indicated																								
pH Check ok																								
Res. Cl ₂ Check ok																								
Sample Labels and COC Agree																								
COC not present																								
Additional Analyses / Remarks																								
2411 Sump Water Sample																								
Metals Filtered in the field																								

RELINQUISHED BY: [Signature] COMPANY: MKM DATE: 10/19/00 TIME: 10:05

RELINQUISHED BY: [Signature] COMPANY: MKM DATE: 10/19/00 TIME: 10:05

Matrix Key: W = Wastewater, S = Soil, MS = Miscellaneous, O = Oil, A = Air

Container Key: 1. Plastic, 2. VOA Vial, 3. Sterile Plastic, 4. Amber Glass, 5. Wide-mouth Glass, 6. Other

Preservative Key: 1. HCl, Cool to 4°, 2. H₂SO₄, Cool to 4°, 3. HNO₃, Cool to 4°, 4. NaOH, Cool to 4°, 5. NaOH/Zn Acetate, Cool to 4°, 6. Cool to 4°, 7. None

COMMENTS: See Revises COC Rec'd via FAX. NSM 10/11/00

RECEIVED BY: [Signature] COMPANY: SR DATE: 10/19/00 TIME: 10:05

DATE RECEIVED: 10/19/00 TIME: 10:05

Courier: Air Ex Hand Delivered: ☐

Bill of Lading: attached

Shaded Areas for Internal Use Only

EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G961

Laboratory Chronicle	01
I. Chain of Custody.....	2
II. Data Summary	7
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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-004-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-001
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-007-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-002
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.47	U
RDX	BRL	0.19	U
1,3,5-Trinitrobenzene	BRL	0.19	U
1,3-Dinitrobenzene	BRL	0.19	U
Nitrobenzene	BRL	0.19	U
2,4,6-TNT	BRL	0.19	U
Tetryl	BRL	0.37	U
2,4-Dinitrotoluene	BRL	0.19	U
2,6-Dinitrotoluene	BRL	0.37	U
2-Nitrotoluene	BRL	0.37	U
4-Nitrotoluene	BRL	0.94	U
3-Nitrotoluene	BRL	0.37	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday July 20th, 2000

Attn: Stan Levenger

RE: LL11SW-008-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-003
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-009-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-004
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-010-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-005
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-008-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G961-006
Sample Date: 06/29/00
Date Received: 06/30/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.60	U
RDX	BRL	0.24	U
1,3,5-Trinitrobenzene	BRL	0.24	U
1,3-Dinitrobenzene	BRL	0.24	U
Nitrobenzene	BRL	0.24	U
2,4,6-TNT	BRL	0.24	U
Tetryl	BRL	0.48	U
2,4-Dinitrotoluene	BRL	0.24	U
2,6-Dinitrotoluene	BRL	0.48	U
2-Nitrotoluene	BRL	0.48	U
4-Nitrotoluene	BRL	1.2	U
3-Nitrotoluene	BRL	0.48	U

EXPLOSIVE DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A06G943

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday July 20th, 2000

Attn: Stan Levenger

RE: LL11SW-001-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-001
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting - Limit	Flag
HMX	BRL	0.65	U
RDX	BRL	0.26	U
1,3,5-Trinitrobenzene	BRL	0.26	U
1,3-Dinitrobenzene	BRL	0.26	U
Nitrobenzene	BRL	0.26	U
2,4,6-TNT	BRL	0.26	U
Tetryl	BRL	0.52	U
2,4-Dinitrotoluene	BRL	0.26	U
2,6-Dinitrotoluene	BRL	0.52	U
2-Nitrotoluene	BRL	0.52	U
4-Nitrotoluene	BRL	1.3	U
3-Nitrotoluene	BRL	0.52	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-002-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-002
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting - Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday July 20th, 2000

Attn: Stan Levenger

RE: LL11SW-003-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-003
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-006-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-004
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.49	U
RDX	BRL	0.20	U
1,3,5-Trinitrobenzene	BRL	0.20	U
1,3-Dinitrobenzene	BRL	0.20	U
Nitrobenzene	BRL	0.20	U
2,4,6-TNT	BRL	0.20	U
Tetryl	BRL	0.39	U
2,4-Dinitrotoluene	BRL	0.20	U
2,6-Dinitrotoluene	BRL	0.39	U
2-Nitrotoluene	BRL	0.39	U
4-Nitrotoluene	BRL	0.99	U
3-Nitrotoluene	BRL	0.39	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday July 20th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting - Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting - Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday July 20th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting - Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting- Limit	Flag
HMX	BRL	0.51	U
RDX	BRL	0.20	U
1,3,5-Trinitrobenzene	BRL	0.20	U
1,3-Dinitrobenzene	BRL	0.20	U
Nitrobenzene	BRL	0.20	U
2,4,6-TNT	BRL	0.20	U
Tetryl	BRL	0.41	U
2,4-Dinitrotoluene	BRL	0.20	U
2,6-Dinitrotoluene	BRL	0.41	U
2-Nitrotoluene	BRL	0.41	U
4-Nitrotoluene	BRL	1.0	U
3-Nitrotoluene	BRL	0.41	U

EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A10G776

Laboratory Chronicle	01
I. Chain of Custody	2
II. Data Summary	6
III. Case Narrative	8
IV. Quality Control Summary	10
V. Sample Data Package	15
VI. Standards Data Package	21
VII. Raw Quality Control Data Package	90

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday October 27th, 2000

Attn: Mr. Stan Levenger

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

WATER, 8330,
Nitroglycerine only

STL Chicago

Client Sample ID: LL/SW-011-0002-SW

HPLC

Lot-Sample #....: GOG120286-005	Work Order #....: DG600102	Matrix.....: WATER
Date Sampled....: 07/12/00	Date Received...: 07/13/00	
Prep Date.....: 07/19/00	Analysis Date...: 07/26/00	
Prep Batch #....: 0201164		
Dilution Factor: 1	Method.....: SW846 8330	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.65		ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2,4-Dinitrofluorobenzene	105	(59 - 128)
3,4-Dinitrotoluene	111	(35 - 165)

STL Chicago

Client Sample ID: LL/SW-011-0002-FD

HPLC

Lot-Sample #....: GOG120286-006 Work Order #....: DG60X102 Matrix.....: WATER
Date Sampled....: 07/12/00 Date Received...: 07/13/00
Prep Date.....: 07/19/00 Analysis Date...: 07/26/00
Prep Batch #....: 0201164
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.65	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4-Dinitrofluorobenzene	93	(59 - 128)
3,4-Dinitrotoluene	103	(35 - 165)

STL Chicago

Client Sample ID: LL/SW-011-0002-ER

HPLC

Lot-Sample #....: G0G120286-007 Work Order #....: DG61A102 Matrix.....: WATER
 Date Sampled....: 07/12/00 Date Received...: 07/13/00
 Prep Date.....: 07/19/00 Analysis Date...: 07/26/00
 Prep Batch #....: 0201164
 Dilution Factor: 1 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroglycerin	ND	0.65	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dinitrofluorobenzene	95	(59 - 128)
3,4-Dinitrotoluene	121	(35 - 165)

STL Chicago

Client Sample ID: LL/SW-011-0002-FB

HPLC

Lot-Sample #....: G0G120286-008 Work Order #....: DG61C102 Matrix.....: WATER
 Date Sampled....: 07/12/00 Date Received...: 07/13/00
 Prep Date.....: 07/19/00 Analysis Date...: 07/26/00
 Prep Batch #....: 0201164
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.65	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	91	(59 - 128)
3,4-Dinitrotoluene	114	(35 - 165)

WATER, UV/HPLC per SOP, Nitroquanidine

STL Chicago

Client Sample ID: LL/SW-011-0002-SW

Trace Level Organic Compounds

Lot-Sample #....: G0G120286-005 Work Order #....: DG600103 Matrix.....: WATER
Date Sampled....: 07/12/00 Date Received...: 07/13/00 09:15 MS Run #.....: 0196260
Prep Date.....: 07/14/00 Analysis Date...: 07/28/00
Prep Batch #....: 0196506
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	20	ug/L

STL Chicago

Client Sample ID: LL/SW-011-0002-FD

Trace Level Organic Compounds

Lot-Sample #....: G0G120286-006 Work Order #....: DG60X103 Matrix.....: WATER
Date Sampled...: 07/12/00 Date Received...: 07/13/00 09:15 MS Run #.....: 0196260
Prep Date.....: 07/14/00 Analysis Date...: 07/28/00
Prep Batch #....: 0196506
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	20	ug/L

STL Chicago

Client Sample ID: LL/SW-011-0002-ER

Trace Level Organic Compounds

Lot-Sample #....: G0G120286-007 Work Order #....: DG61A103 Matrix.....: WATER
Date Sampled....: 07/12/00 Date Received...: 07/13/00 09:15 MS Run #.....: 0196260
Prep Date.....: 07/14/00 Analysis Date...: 07/28/00
Prep Batch #....: 0196506
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	20	ug/L

STL Chicago

Client Sample ID: LL/SW-011-0002-FB

Trace Level Organic Compounds

Lot-Sample #....: G0G120286-008 Work Order #....: DG61C103 Matrix.....: WATER
Date Sampled....: 07/12/00 Date Received...: 07/13/00 09:15 MS Run #.....: 0196260
Prep Date.....: 07/14/00 Analysis Date...: 07/28/00
Prep Batch #....: 0196506
Dilution Factor: 1 Method.....: NONE UV/HPLC per

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Nitroguanidine	ND	20	ug/L

WATER, 353.2, Nitrocellulose

STL Chicago

Client Sample ID: LL/SW-011-0002-SW

General Chemistry

Lot-Sample #....: G0G120286-005

Work Order #....: DG600

Matrix.....: WATER

Date Sampled....: 07/12/00

Date Received...: 07/13/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/21-07/25/00	0206488

Dilution Factor: 1

STL Chicago

Client Sample ID: LL/SW-011-0002-FD

General Chemistry

Lot-Sample #....: G0G120286-006

Work Order #....: DG60X

Matrix.....: WATER

Date Sampled....: 07/12/00

Date Received...: 07/13/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/21-07/25/00	0206488

Dilution Factor: 1

STL Chicago

Client Sample ID: LL/SW-011-0002-ER

General Chemistry

Lot-Sample #....: G0G120286-007 Work Order #....: DG61A Matrix.....: WATER
Date Sampled....: 07/12/00 Date Received...: 07/13/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/21-07/25/00	0206488

Dilution Factor: 1

STL Chicago

Client Sample ID: LL/SW-011-0002-FB

General Chemistry

Lot-Sample #...: GOG120286-008 Work Order #...: DG61C Matrix.....: WATER
Date Sampled...: 07/12/00 Date Received...: 07/13/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	07/21-07/25/00	0206488

Dilution Factor: 1

METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G943

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-001-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-001
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	30.0	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	56100	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	2190	ug/L	500

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-001-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-001
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	15000	ug/L	100
Manganese, Soluble	838	ug/L	5.0
Sodium, Soluble	7430	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	21.6	ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.0	u ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-002-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-002
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	20.6	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	42200	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1410	ug/L	500

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Date: Wednesday July 19th, 2000

RE: LL11SW-002-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-002
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	7900	ug/L	100
Manganese, Soluble	8.3	ug/L	5.0
Sodium, Soluble	3820	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	58.8	ug/L	10.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	19.6	ug/L	10.0

To: MKM-Ravenna AAP
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Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-003-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-003
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	34.2	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	86600	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1640	ug/L	500

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Date: Wednesday July 19th, 2000

RE: LL11SW-003-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-003
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	21000	ug/L	100
Manganese, Soluble	424	ug/L	5.0
Sodium, Soluble	14400	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.8	ug/L	10.0

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Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-006-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-004
Sample Date: 06/28/00
Date Received: 06/29/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	43.1	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	85400	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	81.6	ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1140	ug/L	500
Magnesium, Soluble	20700	ug/L	100
Manganese, Soluble	3170	ug/L	5.0
Sodium, Soluble	8550	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0

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Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-006-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-004
Sample Date: 06/28/00
Date Received: 06/29/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.4	ug/L	10.0

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Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	41.6	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	65900	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	4610	ug/L	500

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Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	10200	ug/L	100
Manganese, Soluble	19.8	ug/L	5.0
Sodium, Soluble	3160	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	12.2	ug/L	10.0

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Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	10.0	u ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	100	u ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	500	u ug/L	500

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Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	100	u ug/L	100
Manganese, Soluble	5.0	u ug/L	5.0
Sodium, Soluble	1000	u ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.0	u ug/L	10.0

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	10.0	u ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	346	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	177	ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	500	u ug/L	500

To: MKM-Ravenna AAP
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Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	100	ug/L	100
Manganese, Soluble	9.0	ug/L	5.0
Sodium, Soluble	143000	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	29.5	ug/L	10.0

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	42.9	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	67400	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	4660	ug/L	500

To: MKM-Ravenna AAP
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Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	10400	ug/L	100
Manganese, Soluble	20.3	ug/L	5.0
Sodium, Soluble	3160	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.0	u ug/L	10.0

To: MKM-Ravenna AAP
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Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-004-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-001
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	30.8	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	56200	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	2070	ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	4450	ug/L	500

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Date: Thursday July 20th, 2000

RE: LL11SW-004-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-001
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	3220	ug/L	100
Manganese, Soluble	66.9	ug/L	5.0
Sodium, Soluble	1640	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	12.3	ug/L	10.0

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Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-007-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-002
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	25.0	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	53400	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1130	ug/L	500

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Date: Thursday July 20th, 2000

RE: LL11SW-007-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-002
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	9520	ug/L	100
Manganese, Soluble	5.0	u ug/L	5.0
Sodium, Soluble	3040	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	10.0	u ug/L	10.0

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Date: Thursday July 20th, 2000

RE: LL11SW-008-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-003
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	32.3	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	85900	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1420	ug/L	500

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Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-008-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-003
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	12400	ug/L	100
Manganese, Soluble	222	ug/L	5.0
Sodium, Soluble	3960	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	15.0	ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-009-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-004
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	24.1	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	61100	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1770	ug/L	500

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-009-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-004
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	8980	ug/L	100
Manganese, Soluble	7.6	ug/L	5.0
Sodium, Soluble	3670	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	15.8	ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-010-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-005
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	26.1	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	53700	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1740	ug/L	500

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-010-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-005
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	6340	ug/L	100
Manganese, Soluble	114	ug/L	5.0
Sodium, Soluble	7720	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	15.5	ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-008-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G961-006
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10	u ug/L	10
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	31.5	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	86700	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	1430	ug/L	500

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Thursday July 20th, 2000

RE: LL11SW-008-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G961-006
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Soluble	12500	ug/L	100
Manganese, Soluble	230	ug/L	5.0
Sodium, Soluble	3900	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0
Lead, Soluble	2.0	u ug/L	2.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	5.0	u ug/L	5.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	12.1	ug/L	10.0

METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A10G776

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	5.0	u ug/L	5.0
Lead, Total	686	ug/L	100

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-003
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Silver, Soluble	5.0	u ug/L	5.0
Aluminum, Soluble	200	u ug/L	200
Arsenic, Soluble	2.0	u ug/L	2.0
Barium, Soluble	50.5	ug/L	10.0
Beryllium, Soluble	4.0	u ug/L	4.0
Calcium, Soluble	49900	ug/L	100
Cadmium, Soluble	2.0	u ug/L	2.0
Cobalt, Soluble	5.0	u ug/L	5.0
Chromium, Soluble	10.0	u ug/L	10.0
Copper, Soluble	10.0	u ug/L	10.0
Iron, Soluble	50.0	u ug/L	50.0
Mercury, Soluble	0.20	u ug/L	0.20
Potassium, Soluble	10200	ug/L	500
Magnesium, Soluble	5750	ug/L	100
Manganese, Soluble	68.1	ug/L	10.0
Sodium, Soluble	2790	ug/L	1000
Nickel, Soluble	10.0	u ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-003
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Lead, Soluble	376	ug/L	20.0
Antimony, Soluble	3.0	u ug/L	3.0
Selenium, Soluble	2.0	u ug/L	2.0
Thallium, Soluble	2.0	u ug/L	2.0
Vanadium, Soluble	5.0	u ug/L	5.0
Zinc, Soluble	27.9	ug/L	10.0

VOLATILES BY GC/MS
MKM-RAVENNA AAP
RFW# 9A06G943

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	2	2	
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-TB
Project # 00000-000-000-0000
Lab ID: 9A06G943-009
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	1	0.5	
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday July 18th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-TB
Project # 00000-000-000-0000
Lab ID: 9A06G943-009
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

VOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A10G776

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-TB
Project # 00000-000-000-0000
Lab ID: 9A10G776-002
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	0.5	0.5	
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-TB
Project # 00000-000-000-0000
Lab ID: 9A10G776-002
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SW-005-0001-TB
Project # 00000-000-000-0000
Lab ID: 9A10G776-002
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

Tentatively Identified Compounds

2 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
Unknown	20.585	3 J
UNKNOWN SILOXANE	24.517	3 J

SEMIVOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A06G943

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	26	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	26	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	26	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	26	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	26	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	26	U
4,6-Dinitro-2-methylphenol	BRL	26	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	26	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

17 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	7.026	6 J
UNKNOWN ALKANE	17.750	16 Jb
Unknown	18.647	7 J
UNKNOWN ALKANE	19.566	15 J
UNKNOWN ALKANE	19.785	8 JB
UNKNOWN ALKENE	19.971	12 J
UNKNOWN ALKENE	20.398	18 J
UNKNOWN ALKENE	21.044	16 J
UNKNOWN ALKENE	21.558	8 J
Unknown	21.820	6 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN ALKENE	22.039	13 J
Unknown	22.346	6 J
Unknown	22.357	6 J
Unknown	22.772	8 J
Unknown	23.363	7 J
Unknown	23.396	5 J
Unknown	23.451	8 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	26	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	26	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	26	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	26	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	26	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	26	U
4,6-Dinitro-2-methylphenol	BRL	26	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	26	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	8	10	J
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday July 18th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	26	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	26	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	26	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	26	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	26	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	8	10	J
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	26	U
4,6-Dinitro-2-methylphenol	BRL	26	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	26	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN ALKANE	7.038	10 JB
UNKNOWN ALKANE	7.825	4 J
Unknown	7.979	210 J
CAPROIC ACID ISOMER	10.145	5 J

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Date: Tuesday July 18th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	25	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	25	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	25	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	25	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	25	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
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Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	10	10	J
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	25	U
4,6-Dinitro-2-methylphenol	BRL	25	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	25	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

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Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	24	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	24	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	24	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	24	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	24	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	24	U
4,6-Dinitro-2-methylphenol	BRL	24	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	24	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

3 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	7.040	20 J
UNKNOWN PHTHALATE	17.917	5 J
UNKNOWN PHTHALATE	17.950	4 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	24	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	24	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	24	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	24	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	24	U
Fluorene	BRL	10	U

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Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	24	U
4,6-Dinitro-2-methylphenol	BRL	24	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	24	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

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Project # 00000-000-000-0000
Lab ID: 9A06G943-007 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: MKM-Ravenna AAP
8451 State Rt. 5
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Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	26	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	26	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	26	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	26	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	26	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	26	U
4,6-Dinitro-2-methylphenol	BRL	26	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	26	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	18	10	
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

24 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	7.038	8 J
UNKNOWN PHTHALATE	17.390	5 J
UNKNOWN PHTHALATE	17.489	7 JB
UNKNOWN PHTHALATE	17.576	15 J
UNKNOWN PHTHALATE	17.609	15 J
UNKNOWN PHTHALATE	17.642	4 J
UNKNOWN PHTHALATE	17.675	8 J
UNKNOWN PHTHALATE	17.729	6 J
UNKNOWN PHTHALATE	17.784	17 J
UNKNOWN PHTHALATE	17.828	12 J

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8451 State Rt. 5
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	17.882	19 J
UNKNOWN PHTHALATE	17.915	32 J
UNKNOWN PHTHALATE	17.959	32 J
UNKNOWN PHTHALATE	18.025	10 J
UNKNOWN ALKANE	18.068	6 J
UNKNOWN PHTHALATE	18.123	14 J
UNKNOWN PHTHALATE	18.156	19 J
UNKNOWN PHTHALATE	18.364	5 J
UNKNOWN ALKANE	19.797	5 J
UNKNOWN PHTHALATE	20.049	9 J
UNKNOWN PHTHALATE	20.115	17 J
UNKNOWN PHTHALATE	20.191	22 J
UNKNOWN PHTHALATE	20.257	14 J
UNKNOWN PHTHALATE	20.334	12 J

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	25	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	25	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	25	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	25	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	25	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday July 18th, 2000

Attn: Stan Levenger

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	25	U
4,6-Dinitro-2-methylphenol	BRL	25	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	25	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

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Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	14	10	
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008 RE
Sample Date: 06/28/00
Date Received: 06/29/00
Units: ug/L

Tentatively Identified Compounds

No Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

SEMIVOLATILES BY GC/MS
MKM-RAVENNA AAP
RFW# 9A10G776

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	24	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	24	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	24	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	24	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	24	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	24	U
4,6-Dinitro-2-methylphenol	BRL	24	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	24	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

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Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/L

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN ALKANE	17.293	12 J
UNKNOWN PHTHALATE	17.380	5 J
UNKNOWN PHTHALATE	17.499	42 J
UNKNOWN PHTHALATE	17.661	24 J
UNKNOWN PHTHALATE	18.159	8 J

**PESTICIDE/PCB DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A06G943**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.025	U
beta-BHC	BRL	0.025	U
delta-BHC	BRL	0.025	U
gamma-BHC (Lindane)	BRL	0.025	U
Heptachlor	BRL	0.025	U
Aldrin	BRL	0.025	U
Heptachlor epoxide	BRL	0.025	U
Endosulfan I	BRL	0.025	U
Dieldrin	BRL	0.050	U
4,4'-DDE	BRL	0.050	U
Endrin	BRL	0.050	U
Endosulfan II	BRL	0.050	U
4,4'-DDD	BRL	0.050	U
Endosulfan sulfate	BRL	0.050	U
4,4'-DDT	BRL	0.050	U
Methoxychlor	BRL	0.25	U
Endrin ketone	BRL	0.050	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	0.050	U
alpha-Chlordane	BRL	0.025	U
gamma-Chlordane	BRL	0.025	U
Toxaphene	BRL	0.50	U

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.025	U
beta-BHC	BRL	0.025	U
delta-BHC	0.020	0.025	J
gamma-BHC (Lindane)	BRL	0.025	U
Heptachlor	BRL	0.025	U
Aldrin	BRL	0.025	U
Heptachlor epoxide	BRL	0.025	U
Endosulfan I	BRL	0.025	U
Dieldrin	BRL	0.050	U
4,4'-DDE	BRL	0.050	U
Endrin	BRL	0.050	U
Endosulfan II	BRL	0.050	U
4,4'-DDD	BRL	0.050	U
Endosulfan sulfate	BRL	0.050	U
4,4'-DDT	BRL	0.050	U
Methoxychlor	BRL	0.25	U
Endrin ketone	BRL	0.050	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	0.050	U
alpha-Chlordane	BRL	0.025	U
gamma-Chlordane	BRL	0.025	U
Toxaphene	BRL	0.50	U

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.024	U
beta-BHC	BRL	0.024	U
delta-BHC	BRL	0.024	U
gamma-BHC (Lindane)	BRL	0.024	U
Heptachlor	BRL	0.024	U
Aldrin	BRL	0.024	U
Heptachlor epoxide	BRL	0.024	U
Endosulfan I	BRL	0.024	U
Dieldrin	BRL	0.048	U
4,4'-DDE	BRL	0.048	U
Endrin	BRL	0.048	U
Endosulfan II	BRL	0.048	U
4,4'-DDD	BRL	0.048	U
Endosulfan sulfate	BRL	0.048	U
4,4'-DDT	BRL	0.048	U
Methoxychlor	BRL	0.24	U
Endrin ketone	BRL	0.048	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	0.048	U
alpha-Chlordane	BRL	0.024	U
gamma-Chlordane	BRL	0.024	U
Toxaphene	BRL	0.48	U

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.026	U
beta-BHC	BRL	0.026	U
delta-BHC	BRL	0.026	U
gamma-BHC (Lindane)	BRL	0.026	U
Heptachlor	BRL	0.026	U
Aldrin	BRL	0.026	U
Heptachlor epoxide	BRL	0.026	U
Endosulfan I	BRL	0.026	U
Dieldrin	BRL	0.051	U
4,4'-DDE	BRL	0.051	U
Endrin	BRL	0.051	U
Endosulfan II	BRL	0.051	U
4,4'-DDD	BRL	0.051	U
Endosulfan sulfate	BRL	0.051	U
4,4'-DDT	BRL	0.051	U
Methoxychlor	BRL	0.26	U
Endrin ketone	BRL	0.051	U

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	0.051	U
alpha-Chlordane	BRL	0.026	U
gamma-Chlordane	BRL	0.026	U
Toxaphene	BRL	0.51	U

**PCB DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A06G943**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	0.25	U
Aroclor-1221	BRL	0.25	U
Aroclor-1232	BRL	0.25	U
Aroclor-1242	BRL	0.25	U
Aroclor-1248	BRL	0.25	U
Aroclor-1254	BRL	0.25	U
Aroclor-1260	BRL	0.25	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	0.25	U
Aroclor-1221	BRL	0.25	U
Aroclor-1232	BRL	0.25	U
Aroclor-1242	BRL	0.25	U
Aroclor-1248	BRL	0.25	U
Aroclor-1254	BRL	0.25	U
Aroclor-1260	BRL	0.25	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	0.24	U
Aroclor-1221	BRL	0.24	U
Aroclor-1232	BRL	0.24	U
Aroclor-1242	BRL	0.24	U
Aroclor-1248	BRL	0.24	U
Aroclor-1254	BRL	0.24	U
Aroclor-1260	BRL	0.24	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Tuesday July 18th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00
Units: UG/L

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	0.26	U
Aroclor-1221	BRL	0.26	U
Aroclor-1232	BRL	0.26	U
Aroclor-1242	BRL	0.26	U
Aroclor-1248	BRL	0.26	U
Aroclor-1254	BRL	0.26	U
Aroclor-1260	BRL	0.26	U

WET CHEMISTRY DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A06G961

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-004-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-001
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.22	mg/L	0.10
Sulfide	1.4	mg/L	1.0
Sulfate	8.9	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-007-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-002
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	11.8	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-008-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-003
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	19.8	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-009-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-004
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.16	mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	19.4	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-010-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G961-005
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.24	mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	22.4	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-008-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G961-006
Sample Date: 06/29/00
Date Received: 06/30/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	18.0	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G961

Attn: Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN048-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF054-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA029-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G961

Attn: Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN048-LCS	Nitrate Nitrite	1.0	mg/L	104	NA	NA
80GSF054-LCS	Sulfide	3.2	mg/L	114	NA	NA
80GSA029-LCS	Sulfate	20.0	mg/L	98.6	NA	NA

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-001-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-001
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	20.2	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-002-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-002
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	15.7	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-003-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-003
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	34.9	mg/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-006-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-004
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	14.4	mg/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A06G943-005
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.5	mg/L	1.0
Sulfate	17.2	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A06G943-006
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FB
Project # 00000-000-000-0000
Lab ID: 9A06G943-007
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	58.1	mg/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Stan Levenger

Date: Wednesday July 19th, 2000

RE: LL11SW-011-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A06G943-008
Sample Date: 06/28/00
Date Received: 06/29/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.2	mg/L	1.0
Sulfate	19.9	mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G943

Attn: Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN048-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF054-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA029-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G943

Attn: Stan Levenger

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-005REP	LL11SW-011-0001-SW	Sulfate	17.2	17.4	1.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G943

Attn: Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-005	LL11SW-011-0001-SW	Nitrate, as N	1.2	0.10	u	1.0	115
		Nitrate, as N MSD	1.1	0.10	u	1.0	114
		Sulfide	5.3	1.5		3.2	120
		Sulfide MSD	4.7	1.5		3.2	99.9
		Sulfate	39.6	17.2		20.0	112

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G943

Attn: Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-005	LL11SW-011-0001-SW	Nitrate, as N	115	114	1.0
		Sulfide	120	99.9	18.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday July 19th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A06G943

Attn: Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN048-LCS	Nitrate Nitrite	1.0	mg/L	104	NA	NA
80GSF054-LCS	Sulfide	3.2	mg/L	114	NA	NA
80GSA029-LCS	Sulfate	20.0	mg/L	98.6	NA	NA

WET CHEMISTRY DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A10G776

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday October 27th, 2000

RE: LL11SW-005-0001-SW
Project # 00000-000-000-0000
Lab ID: 9A10G776-001
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.43	mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	41.9	mg/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday October 27th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G776

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN077-MB1	Nitrate, as N	0.10	u mg/L	0.10
Blank 1	80GSF088-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA052-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday October 27th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G776

Attn: Mr. Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-001	LL11SW-005-0001-SW	Nitrate, as N	1.4	0.43	1.0	98.6
		Nitrate, as N MSD	1.4	0.43	1.0	98.3
		Sulfide	2.9	1.0	u 3.2	90.9
		Sulfide MSD	3.3	1.0	u 3.2	103

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday October 27th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G776

Attn: Mr. Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-001	LL11SW-005-0001-SW	Nitrate, as N	98.6	98.3	0.30
		Sulfide	90.9	103	13.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday October 27th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G776

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN077-LCS	Nitrate, as N	1.0	mg/L	104	NA	NA
80GSF088-LCS	Sulfide	3.2	mg/L	86.1	NA	NA

METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G306

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday August 21st, 2000

RE: LL11SW-002-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G306-003
Sample Date: 07/31/00
Date Received: 08/02/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	59.8	ug/L	20.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday August 21st, 2000

RE: LL11SW-006-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G306-004
Sample Date: 07/31/00
Date Received: 08/02/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-008-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G307-004
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266
Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000
RE: LL11SW-011-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G307-005
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-009-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G307-006
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-003-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G300-003
Sample Date: 07/31/00
Date Received: 08/01/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	17.8	ug/L	4.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-007-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G300-004
Sample Date: 07/31/00
Date Received: 08/01/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-001-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G300-005
Sample Date: 07/31/00
Date Received: 08/01/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	45.1	ug/L	2.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-004-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G300-006
Sample Date: 07/31/00
Date Received: 08/01/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	666	ug/L	100

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SW-010-0002-SW
Project # 00000-000-000-0000
Lab ID: 9A08G300-007
Sample Date: 07/31/00
Date Received: 08/01/00

Metals Data Report

Parameters	Result	Units	Reporting Limit
Lead, Total	2.0	u ug/L	2.0

CHAIN OF CUSTODY



Committed to Your Success

Chicago Laboratory

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Leverage

Bill To:

Shaded Areas For Internal Use Only 1 of 2

Contact: Stan
Company: MKM Engineers, Inc.
Address: 8451 St. Rt. 5, Bldg B38
Kauern, OH 44266
Phone: 330.358.2920
Fax: 330.358.2924
E-Mail: _____

Contact: Michelle Burton
Company: MKM Engineers, Inc.
Address: 4453 Bluewater Pl.
Jeffers, TX 77477
Phone: 281.277.5100
Fax: _____
PO#: _____
Quote: _____

Lab Lot #	
Package Sealed	Samples Sealed
Yes No	Yes No
Received on ice	Samples Intact
Yes No	Yes No
Temperature °C	of Cooler

Sample Name: Brown Stockwell
Project Name: RI
Project Location: Ascena /
Lab PM: LL11 RI
Signature: [Signature]
Project Number: G00073
Date Required: 210-7-7-AT
Hard Copy: _____
Fax: _____

Ref#	# Cont.	Volume	Preserv
4	4	5	4%
5	5	5	
6	5	5	
7	5	5	
8	5	5	
9	5	5	
10	5	5	
11	5	5	
12	5	5	
13	5	5	
14	5	5	
15	5	5	
16	5	5	
17	5	5	
18	5	5	
19	5	5	
20	5	5	
21	5	5	
22	5	5	
23	5	5	
24	5	5	
25	5	5	
26	5	5	
27	5	5	
28	5	5	
29	5	5	
30	5	5	
31	5	5	
32	5	5	
33	5	5	
34	5	5	
35	5	5	
36	5	5	
37	5	5	
38	5	5	
39	5	5	
40	5	5	
41	5	5	
42	5	5	
43	5	5	
44	5	5	
45	5	5	
46	5	5	
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48	5	5	
49	5	5	
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93	5	5	
94	5	5	
95	5	5	
96	5	5	
97	5	5	
98	5	5	
99	5	5	
100	5	5	

Within Hold Time	Preserv. Indicated
Yes No	Yes No NA
pH Check ok	Res. Cl ₂ Check ok
Yes No NA	Yes No NA
Sample Labels and COC Agree	
Yes No	COC not present

Laboratory ID	Client Sample ID	Sampling Date	Matrix	Comp/Grab	Additional Analyses / Remarks
MS-MS	LL11SD-001-SD	7/31	SE	G	SD Samples are sample
	LL11SD-002-001-SD	7/31	SE	G	Severe Sediment Samples for
	LL11SD-007-001-SD	7/31	SE	G	LL11 RI
	LL11SD-010-001-SD	7/31	SE	G	
	LL11SW-003-002-5W	7/31	SE	G	
	LL11SW-002-002-5W	7/31	SE	G	
	LL11SW-007-002-5W	7/31	SE	G	
	LL11SW-001-002-5W	7/31	SE	G	
	LL11SW-006-002-5W	7/31	SE	G	
	LL11SW-004-002-5W	7/31	SE	G	
	LL11SW-010-002-5W	7/31	SE	G	

REINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
REINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key

WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air

Container Key

1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widenmouth Glass
6. Other

Preservative Key

1. HCl, Cool to 4°
2. H₂SO₄, Cool to 4°
3. HNO₃, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received

Courier:

Hand Delivered

Bill of Lading:



Committed To Your Success

Chicago Laboratory

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Leung

Bill To:

Shaded Areas For Internal Use Only 2 of 2

Contact: Stan
Company: MKM Engineering, Inc.
Address: 8451 St. Rt. 5, Rt. 1038
Barrington, OH 44226
Phone: 330.358.2920
Fax: 330.358.2924
E-Mail:

Contact: Michelle Butler
Company: MKM Engineering, Inc.
Address: 4153 Blackburn Dr.
Stafford, TX 77477
Phone: 281.277.5100
Fax:
PO#: (5)
Quote:

Lab Lot #			
Package Sealed	Yes	No	Samples Sealed
Received on Ice	Yes	No	Samples Intact
Temperature	% C		of Cooler

Signature: S. A. Hall

Ref #

Cont.

Volume

Preserv

Matrix

Comp/Grab

Explosives

Project/Permits

SVOLCS

VOLCS

1st/12B.

Nitrate

Substrate

Cyanide

Substrate

TAL Metals

Additional Analyses / Remarks

Equip. Blank

Tripp Blank

Plastic added in

the field

Equip. blank Sample

for 1411 RZ

Sediment Sampling

Project Name: Brian Stachewicz

Project Number: 600073

Date Required: 21 Day Turn

Hard Copy:

Fax:

Lab PM:

Project Location:

Project Location:

Project Location:

Project Location:

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Project Location:



Committed To Your Success

Chicago Laboratory

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Levenager

Bill To:

Shaded Areas For Internal Use Only

Contact: Stan
Company: MKM Engineers, Inc.
Address: 8451 St. Rt. 5 Bldg B38
Ravenna, OH 44266
Phone: 330.358.2920
Fax: 330.358.2924

Contact: Michelle Burton
Company: MKM Engineers
Address: 4153 Bluebonnet Dr.
Stafford TX 77477
Phone: 281.277.5100
Fax: _____

Lab Lot #	
Package Sealed	Samples Sealed
Yes No	Yes No
Received on Ice	Samples Intact
Yes No	Yes No
Temperature °C of Cooler	

E-Mail: _____

PO#: _____ Quote: _____

Sampler Name:

Signature:

Project Name:

Project Number:

Project Location:

Date Required

Lab PM:

Hard Copy:

Fax:

Laboratory ID

MS-MSD

Client Sample ID

Sampling Date Time

Matrix

Comp/Grab

Explosives

TAL

Metals

Nitrate

Sulfide

Sulfate

Cyanide

Total Lead

Additional Analyses / Remarks

Within Hold Time

Yes No

Preserv. Indicated

Yes No NA

pH Check ok

Yes No NA

Res. Cl₂ Check ok

Yes No NA

Sample Labels and COC Agree

Yes No COC not present

RELINQUISHED BY

COMPANY

DATE

TIME

RECEIVED BY

COMPANY

DATE

TIME

Matrix Key

WW = Wastewater

W = Water

S = Soil

SL = Sludge

MS = Miscellaneous

OL = Oil

A = Air

SE = Sediment

SO = Solid

DS = Drum Solid

DL = Drum Liquid

L = Leachate

WI = Wipe

O =

Container Key

1. Plastic

2. VOA Vial

3. Sterile Plastic

4. Amber Glass

5. Wide-mouth Glass

6. Other

Preservative Key

1. HCl, Cool to 4°

2. H₂SO₄, Cool to 4°

3. HNO₃, Cool to 4°

4. NaOH, Cool to 4°

5. NaOH/Zn Acetate, Cool to 4°

6. Cool to 4°

7. None

COMMENTS:

Date Received

Courier:

Bill of Lading:

Hand Delivered

**EXPLOSIVE DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A08G300**

Laboratory Chronicle	01
I. Chain of Custody.....	2
II. Data Summary	6
III. Case Narrative	9
IV. Quality Control Summary	12
V. Sample Data Package.....	17
VI. Standards Data Package.....	24
VII. Raw Quality Control Data Package	50

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 15th, 2000

RE: LL11SD-007-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-001
Sample Date: 07/31/00
Date Received: 08/01/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	99	U
1,3,5-Trinitrobenzene	BRL	99	U
1,3-Dinitrobenzene	BRL	99	U
Nitrobenzene	BRL	99	U
2,4,6-TNT	BRL	99	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	99	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday August 15th, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-010-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-002
Sample Date: 07/31/00
Date Received: 08/01/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

**EXPLOSIVE DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A08G307**

Laboratory Chronicle	01
I. Chain of Custody.....	2
II. Data Summary	6
III. Case Narrative	10
IV. Quality Control Summary	13
V. Sample Data Package.....	20
VI. Standards Data Package	30
VII. Raw Quality Control Data Package	64

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 15th, 2000

RE: LL11SD-011-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-001
Sample Date: 08/01/00
Date Received: 08/02/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 15th, 2000

RE: LL11SD-008-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-002
Sample Date: 08/01/00
Date Received: 08/02/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 15th, 2000

RE: LL11SD-009-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-003
Sample Date: 08/01/00
Date Received: 08/02/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G317

Laboratory Chronicle	01
I. Chain of Custody	2
II. Data Summary	8
III. Case Narrative	12
IV. Quality Control Summary	15
V. Sample Data Package	24
VI. Standards Data Package	36
VII. Raw Quality Control Data Package	129

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday August 21st, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-003-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-001
Sample Date: 08/02/00
Date Received: 08/03/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday August 21st, 2000

RE: LL11SD-002-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-002
Sample Date: 08/02/00
Date Received: 08/03/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday August 21st, 2000

RE: LL11SD-003-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A08G317-003
Sample Date: 08/02/00
Date Received: 08/03/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.42	U
RDX	BRL	0.17	U
1,3,5-Trinitrobenzene	BRL	0.17	U
1,3-Dinitrobenzene	BRL	0.17	U
Nitrobenzene	BRL	0.17	U
2,4,6-TNT	0.24	0.17	
Tetryl	BRL	0.34	U
2,4-Dinitrotoluene	BRL	0.17	U
2,6-Dinitrotoluene	BRL	0.34	U
2-Nitrotoluene	BRL	0.34	U
4-Nitrotoluene	BRL	0.84	U
3-Nitrotoluene	BRL	0.34	U

**EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A10G777**

Laboratory Chronicle	01
I. Chain of Custody.....	2
II. Data Summary.....	7
III. Case Narrative	9
IV. Quality Control Summary.....	12
V. Sample Data Package.....	18
VI. Standards Data Package.....	24
VII. Raw Quality Control Data Package	100

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday October 27th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	25000	U
RDX	BRL	10000	U
1,3,5-Trinitrobenzene	BRL	10000	U
1,3-Dinitrobenzene	BRL	10000	U
Nitrobenzene	BRL	10000	U
2,4,6-TNT	BRL	10000	U
Tetryl	BRL	20000	U
2,4-Dinitrotoluene	BRL	10000	U
2,6-Dinitrotoluene	BRL	20000	U
2-Nitrotoluene	BRL	20000	U
4-Nitrotoluene	BRL	50000	U
3-Nitrotoluene	BRL	20000	U

**METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G300**

Laboratory Chronicle	1
Chain of Custody.....	6
Data Summary	13
Case Narrative	23
Data Reporting Forms	29
ICP Raw Data	123
Furnace AA Raw Data.....	307
Mercury Raw Data	498
Cyanide Raw Data	511
Digestion Information	517

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-007-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-001
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	20.2	%	0.10
Cyanide, Total	2.4	u mg/kg	2.4
Silver, Total	0.49	u mg/kg	0.49
Aluminum, Total	16500	mg/kg	19.5
Arsenic, Total	69.5	mg/kg	7.9
Barium, Total	240	mg/kg	0.97
Beryllium, Total	0.96	mg/kg	0.39
Calcium, Total	5140	mg/kg	9.7
Cadmium, Total	1.3	mg/kg	0.19
Cobalt, Total	18.0	mg/kg	0.49
Chromium, Total	30.5	mg/kg	0.97
Copper, Total	330	mg/kg	0.97
Iron, Total	82600	mg/kg	24.4
Mercury, Total	0.44	mg/kg	0.17

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-007-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-001
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	2360	mg/kg	48.7
Magnesium, Total	3560	mg/kg	9.7
Manganese, Total	4040	mg/kg	2.4
Sodium, Total	1560	mg/kg	97.4
Nickel, Total	29.2	mg/kg	0.97
Lead, Total	1770	mg/kg	98.6
Antimony, Total	0.30	u mg/kg	0.30
Selenium, Total	2.0	u mg/kg	2.0
Thallium, Total	0.20	u mg/kg	0.20
Vanadium, Total	55.7	mg/kg	0.49
Zinc, Total	286	mg/kg	0.97

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-010-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-002
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	22.4	%	0.10
Cyanide, Total	0.99	u mg/kg	0.99
Silver, Total	0.43	u mg/kg	0.43
Aluminum, Total	10100	mg/kg	17.3
Arsenic, Total	41.8	mg/kg	3.5
Barium, Total	238	mg/kg	0.87
Beryllium, Total	0.78	mg/kg	0.35
Calcium, Total	6080	mg/kg	8.7
Cadmium, Total	0.30	mg/kg	0.17
Cobalt, Total	12.5	mg/kg	0.43
Chromium, Total	13.5	mg/kg	0.87
Copper, Total	30.9	mg/kg	0.87
Iron, Total	32200	mg/kg	4.3
Mercury, Total	0.15	mg/kg	0.15

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-010-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-002
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1470	mg/kg	43.3
Magnesium, Total	2400	mg/kg	8.7
Manganese, Total	16700	mg/kg	8.7
Sodium, Total	1050	mg/kg	86.7
Nickel, Total	21.7	mg/kg	0.87
Lead, Total	693	mg/kg	86.7
Antimony, Total	0.26	u mg/kg	0.26
Selenium, Total	0.43	u mg/kg	0.43
Thallium, Total	0.18	mg/kg	0.17
Vanadium, Total	21.5	mg/kg	0.43
Zinc, Total	142	mg/kg	0.87

METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G307

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-011-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-001
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	31.7	%	0.10
Cyanide, Total	1.2	u mg/kg	1.2
Silver, Total	0.31	u mg/kg	0.31
Aluminum, Total	7900	mg/kg	12.4
Arsenic, Total	34.1	mg/kg	4.9
Barium, Total	131	mg/kg	0.62
Beryllium, Total	0.62	mg/kg	0.25
Calcium, Total	5960	mg/kg	6.2
Cadmium, Total	0.45	mg/kg	0.12
Cobalt, Total	12.8	mg/kg	0.31
Chromium, Total	11.2	mg/kg	0.62
Copper, Total	19.4	mg/kg	0.62
Iron, Total	28400	mg/kg	3.1
Mercury, Total	0.11	u mg/kg	0.11

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-011-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-001
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	907	mg/kg	31.0
Magnesium, Total	1900	mg/kg	6.2
Manganese, Total	19900	mg/kg	6.2
Sodium, Total	621	u mg/kg	621
Nickel, Total	18.2	mg/kg	0.62
Lead, Total	64.8	mg/kg	6.1
Antimony, Total	0.18	u mg/kg	0.18
Selenium, Total	1.5	u mg/kg	1.5
Thallium, Total	0.20	mg/kg	0.12
Vanadium, Total	14.7	mg/kg	0.31
Zinc, Total	117	mg/kg	0.62

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-008-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-002
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	51.2	%	0.10
Cyanide, Total	0.35	u mg/kg	0.35
Silver, Total	0.19	u mg/kg	0.19
Aluminum, Total	3950	mg/kg	7.7
Arsenic, Total	21.0	mg/kg	1.5
Barium, Total	101	mg/kg	0.39
Beryllium, Total	0.31	mg/kg	0.15
Calcium, Total	3190	mg/kg	3.9
Cadmium, Total	0.20	mg/kg	0.08
Cobalt, Total	7.5	mg/kg	0.19
Chromium, Total	5.3	mg/kg	0.39
Copper, Total	8.7	mg/kg	0.39
Iron, Total	10900	mg/kg	1.9
Mercury, Total	0.06	u mg/kg	0.06

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-008-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-002
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	498	mg/kg	19.3
Magnesium, Total	1120	mg/kg	3.9
Manganese, Total	9230	mg/kg	3.9
Sodium, Total	387	u mg/kg	387
Nickel, Total	10.5	mg/kg	0.39
Lead, Total	23.6	mg/kg	3.1
Antimony, Total	0.18	mg/kg	0.12
Selenium, Total	0.97	u mg/kg	0.97
Thallium, Total	0.14	mg/kg	0.08
Vanadium, Total	7.3	mg/kg	0.19
Zinc, Total	59.7	mg/kg	0.39

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-009-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-003
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	54.6	%	0.10
Cyanide, Total	0.78	u mg/kg	0.78
Silver, Total	0.18	u mg/kg	0.18
Aluminum, Total	5180	mg/kg	7.2
Arsenic, Total	9.9	mg/kg	2.9
Barium, Total	29.0	mg/kg	0.36
Beryllium, Total	0.35	mg/kg	0.14
Calcium, Total	1150	mg/kg	3.6
Cadmium, Total	0.09	mg/kg	0.07
Cobalt, Total	4.4	mg/kg	0.18
Chromium, Total	7.6	mg/kg	0.36
Copper, Total	10.1	mg/kg	0.36
Iron, Total	11200	mg/kg	1.8
Mercury, Total	0.12	mg/kg	0.06

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday August 22nd, 2000

RE: LL11SD-009-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-003
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	611	mg/kg	18.1
Magnesium, Total	1220	mg/kg	3.6
Manganese, Total	173	mg/kg	0.18
Sodium, Total	362	u mg/kg	362
Nickel, Total	8.2	mg/kg	0.36
Lead, Total	35.7	mg/kg	3.6
Antimony, Total	0.36	mg/kg	0.11
Selenium, Total	6.0	mg/kg	0.91
Thallium, Total	0.11	mg/kg	0.07
Vanadium, Total	9.8	mg/kg	0.18
Zinc, Total	43.9	mg/kg	0.36

METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G317

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-003-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-001
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	16.3	%	0.10
Cyanide, Total	1.5	u mg/kg	1.5
Silver, Total	0.61	u mg/kg	0.61
Aluminum, Total	9080	mg/kg	24.5
Arsenic, Total	30.4	mg/kg	9.5
Barium, Total	130	mg/kg	1.2
Beryllium, Total	0.69	mg/kg	0.49
Calcium, Total	3590	mg/kg	12.2
Cadmium, Total	0.54	mg/kg	0.24
Cobalt, Total	10.7	mg/kg	0.61
Chromium, Total	13.2	mg/kg	1.2
Copper, Total	38.4	mg/kg	1.2
Iron, Total	21400	mg/kg	6.1
Mercury, Total	0.20	u mg/kg	0.20
Potassium, Total	1030	mg/kg	61.2
Magnesium, Total	2190	mg/kg	12.2
Manganese, Total	9940	mg/kg	6.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-003-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-001
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Sodium, Total	181	mg/kg	122
Nickel, Total	16.5	mg/kg	1.2
Lead, Total	3910	mg/kg	239
Antimony, Total	0.87	mg/kg	0.36
Selenium, Total	3.0	u mg/kg	3.0
Thallium, Total	0.24	u mg/kg	0.24
Vanadium, Total	17.5	mg/kg	0.61
Zinc, Total	111	mg/kg	1.2

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-002-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-002
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	13.7	%	0.10
Cyanide, Total	1.9	u mg/kg	1.9
Silver, Total	0.72	u mg/kg	0.72
Aluminum, Total	9040	mg/kg	28.7
Arsenic, Total	83.2	mg/kg	11.6
Barium, Total	131	mg/kg	1.4
Beryllium, Total	0.66	mg/kg	0.57
Calcium, Total	3510	mg/kg	14.3
Cadmium, Total	1.8	mg/kg	0.29
Cobalt, Total	7.4	mg/kg	0.72
Chromium, Total	24.8	mg/kg	1.4
Copper, Total	602	mg/kg	1.4
Iron, Total	20500	mg/kg	7.2
Mercury, Total	0.28	mg/kg	0.24
Potassium, Total	1110	mg/kg	71.7
Magnesium, Total	2270	mg/kg	14.3
Manganese, Total	2470	mg/kg	7.2

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-002-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-002
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Sodium, Total	151	mg/kg	143
Nickel, Total	16.0	mg/kg	1.4
Lead, Total	16100	mg/kg	1450
Antimony, Total	0.44	u mg/kg	0.44
Selenium, Total	3.6	u mg/kg	3.6
Thallium, Total	1.5	u mg/kg	1.5
Vanadium, Total	16.6	mg/kg	0.72
Zinc, Total	295	mg/kg	1.4

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-003-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A08G317-003
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10.0	u ug/L	10.0
Silver, Total	5.0	u ug/L	5.0
Aluminum, Total	200	u ug/L	200
Arsenic, Total	2.0	u ug/L	2.0
Barium, Total	10.0	u ug/L	10.0
Beryllium, Total	4.0	u ug/L	4.0
Calcium, Total	100	u ug/L	100
Cadmium, Total	2.0	u ug/L	2.0
Cobalt, Total	5.0	u ug/L	5.0
Chromium, Total	10.0	u ug/L	10.0
Copper, Total	10.0	u ug/L	10.0
Iron, Total	50.0	u ug/L	50.0
Mercury, Total	0.20	u ug/L	0.20
Potassium, Total	500	u ug/L	500
Magnesium, Total	100	u ug/L	100
Manganese, Total	10.0	u ug/L	10.0
Sodium, Total	1000	u ug/L	1000

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday August 24th, 2000

RE: LL11SD-003-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A08G317-003
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nickel, Total	10.0	u ug/L	10.0
Lead, Total	2.0	u ug/L	2.0
Antimony, Total	3.0	u ug/L	3.0
Selenium, Total	5.0	u ug/L	5.0
Thallium, Total	2.0	u ug/L	2.0
Vanadium, Total	5.0	u ug/L	5.0
Zinc, Total	10.0	u ug/L	10.0

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MKM - RAVENNA AAP
RFW# 9A10G777

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	17.4	%	0.10
Cyanide, Total	2.6	u mg/kg	2.6
Silver, Total	2.0	u mg/kg	2.0
Aluminum, Total	18900	mg/kg	78.2
Arsenic, Total	19.4	mg/kg	1.3
Barium, Total	384	mg/kg	3.9
Beryllium, Total	2.6	mg/kg	1.6
Calcium, Total	85500	mg/kg	39.1
Cadmium, Total	20.2	mg/kg	0.78
Cobalt, Total	23.6	mg/kg	2.0
Chromium, Total	81.8	mg/kg	3.9
Copper, Total	1100	mg/kg	3.9
Iron, Total	43300	mg/kg	19.5
Mercury, Total	0.19	u mg/kg	0.19

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1690	mg/kg	195
Magnesium, Total	19000	mg/kg	39.1
Manganese, Total	1060	mg/kg	3.9
Sodium, Total	774	mg/kg	391
Nickel, Total	58.8	mg/kg	3.9
Lead, Total	37000	mg/kg	9330
Antimony, Total	16.8	mg/kg	1.1
Selenium, Total	5.1	mg/kg	3.7
Thallium, Total	0.75	u mg/kg	0.75
Vanadium, Total	13.8	mg/kg	2.0
Zinc, Total	2580	mg/kg	3.9

WET CHEMISTRY DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A08G300

Laboratory Chronicle	1
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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-007-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-001
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	2.4	u mg/kg	2.4
Nitrate, as N	4.9	u mg/kg	4.9
Sulfide	105	u mg/kg	105
Sulfate	245	u mg/kg	245

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-010-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G300-002
Sample Date: 07/31/00
Date Received: 08/01/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	0.99	u mg/kg	0.99
Nitrate, as N	4.3	u mg/kg	4.3
Sulfide	161	mg/kg	110
Sulfate	217	u mg/kg	217

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G300

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GCN097-MB1	Cyanide, Total	0.010	u mg/L	0.010
Blank 1	80GNN062-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF066-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA038-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G300

Attn: Mr. Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-001	LL11SD-007-0001-SD	Sulfide	317	105	u 384	82.5
		Sulfide MSD	186	105	u 387	48.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G300

Attn: Mr. Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-001	LL11SD-007-0001-SDSulfide		82.5	48.0	52.7

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G300

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GCN097-LCS	Cyanide, Total	0.10	mg/L	97.0	NA	NA
80GNN062-LCS	Nitrate Nitrite	1.0	mg/L	99.8	NA	NA
80GSF066-LCS	Sulfide	3.2	mg/L	115	NA	NA
80GSA038-LCS	Sulfate	20.0	mg/L	107	NA	NA

WET CHEMISTRY DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A08G307

Laboratory Chronicle	1
Chain of Custody.....	2
Data Summary	6
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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-011-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-001
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	3.1	u mg/kg	3.1
Sulfide	86.2	mg/kg	74.7
Sulfate	174	mg/kg	154

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-008-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-002
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.9	u mg/kg	1.9
Sulfide	50.4	mg/kg	48.2
Sulfate	95.9	u mg/kg	95.9

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266
Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-009-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G307-003
Sample Date: 08/01/00
Date Received: 08/02/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.7	u mg/kg	1.7
Sulfide	609	mg/kg	40.2
Sulfate	334	mg/kg	93.6

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G307

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN062-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF066-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA038-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G307

Attn: Mr. Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-003	LL11SD-009-0001-SD	Nitrate, as N	15.7	1.7	u 18.3	86.0
		Nitrate, as N MSD	14.5	1.7	u 17.8	81.8
		Sulfate	1140	334	763	106
		Sulfate MSD	1170	334	763	109

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G307

Attn: Mr. Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-003	LL11SD-009-0001-SD	Nitrate, as N	86.0	81.8	4.9
		Sulfate	106	109	2.8

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G307

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN062-LCS	Nitrate Nitrite	1.0	mg/L	99.8	NA	NA
80GSF066-LCS	Sulfide	3.2	mg/L	115	NA	NA
80GSA038-LCS	Sulfate	20.0	mg/L	107	NA	NA

WET CHEMISTRY DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A08G317

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266
Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-003-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-001
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	6.0	u mg/kg	6.0
Sulfide	1170	mg/kg	135
Sulfate	296	u mg/kg	296

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-002-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A08G317-002
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	7.3	u mg/kg	7.3
Sulfide	2890	mg/kg	168
Sulfate	720	mg/kg	363

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday August 18th, 2000

RE: LL11SD-003-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A08G317-003
Sample Date: 08/02/00
Date Received: 08/03/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G317

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN062-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF066-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA038-MB1	Sulfate	5.0	u mg/L	5.0
Blank 1	80GSF064-MB1	Sulfide	1.0	u mg/L	1.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday August 18th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A08G317

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN062-LCS	Nitrate Nitrite	1.0	mg/L	99.8	NA	NA
80GSF066-LCS	Sulfide	3.2	mg/L	115	NA	NA
80GSA038-LCS	Sulfate	20.0	mg/L	107	NA	NA
80GSF064-LCS	Sulfide	3.2	mg/L	106	NA	NA

WET CHEMISTRY DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A10G777

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266
Attn: Mr. Stan Levenger

Date: Monday October 30th, 2000
RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	5.6	u mg/kg	5.6
Sulfide	1540	mg/kg	142
Sulfate	192	mg/kg	58.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday October 30th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G777

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN077-MB1	Nitrate, as N	0.10	u mg/L	0.10
Blank 1	80GSF087-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA052-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday October 30th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G777

Attn: Mr. Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-001	LL11SD-005-0001-SD	Nitrate, as N	63.3	5.6	u 56.3	112
		Nitrate, as N MSD	61.2	5.6	u 55.3	111
		Sulfide	1850	1540	450	69.4
		Sulfide MSD	1820	1540	450	62.3

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday October 30th. 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G777

Attn: Mr. Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-001	LL11SD-005-0001-SD	Nitrate, as N	112	111	1.4
		Sulfide	69.4	62.3	10.8

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday October 30th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A10G777

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN077-LCS	Nitrate, as N	1.0	mg/L	104	NA	NA
80GSF087-LCS	Sulfide	3.2	mg/L	91.2	NA	NA

VOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A10G777

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	29	U
Vinyl chloride	BRL	29	U
Bromomethane	BRL	29	U
Chloroethane	BRL	29	U
1,1-Dichloroethene	BRL	29	U
Acetone	45	29	
Carbon Disulfide	BRL	29	U
Methylene Chloride	BRL	29	U
1,2-Dichloroethene (total)	BRL	29	U
1,1-Dichloroethane	BRL	29	U
2-Butanone	BRL	29	U
Chloroform	BRL	29	U
1,1,1-Trichloroethane	BRL	29	U
Carbon Tetrachloride	BRL	29	U
Benzene	BRL	29	U
1,2-Dichloroethane	BRL	29	U
Trichloroethene	BRL	29	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	29	U
Bromodichloromethane	BRL	29	U
cis-1,3-Dichloropropene	BRL	29	U
4-Methyl-2-pentanone	BRL	29	U
Toluene	BRL	29	U
trans-1,3-Dichloropropene	BRL	29	U
1,1,2-Trichloroethane	BRL	29	U
Tetrachloroethene	BRL	29	U
2-Hexanone	BRL	29	U
Dibromochloromethane	BRL	29	U
Chlorobenzene	BRL	29	U
Ethylbenzene	BRL	29	U
Xylene (total)	BRL	29	U
Styrene	BRL	29	U
Bromoform	BRL	29	U
1,1,2,2-Tetrachloroethane	BRL	29	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

Tentatively Identified Compounds

1 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

	Retention	Estimated
Volatile Compound	Time	Concentration
UNKNOWN SILOXANE	21.832	37 JB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001 RE
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	29	U
Vinyl chloride	BRL	29	U
Bromomethane	BRL	29	U
Chloroethane	BRL	29	U
1,1-Dichloroethene	BRL	29	U
Acetone	BRL	29	U
Carbon Disulfide	BRL	29	U
Methylene Chloride	BRL	29	U
1,2-Dichloroethene (total)	BRL	29	U
1,1-Dichloroethane	BRL	29	U
2-Butanone	BRL	29	U
Chloroform	BRL	29	U
1,1,1-Trichloroethane	BRL	29	U
Carbon Tetrachloride	BRL	29	U
Benzene	BRL	29	U
1,2-Dichloroethane	BRL	29	U
Trichloroethene	BRL	29	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001 RE
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	29	U
Bromodichloromethane	BRL	29	U
cis-1,3-Dichloropropene	BRL	29	U
4-Methyl-2-pentanone	BRL	29	U
Toluene	BRL	29	U
trans-1,3-Dichloropropene	BRL	29	U
1,1,2-Trichloroethane	BRL	29	U
Tetrachloroethene	BRL	29	U
2-Hexanone	BRL	29	U
Dibromochloromethane	BRL	29	U
Chlorobenzene	BRL	29	U
Ethylbenzene	BRL	29	U
Xylene (total)	BRL	29	U
Styrene	BRL	29	U
Bromoform	BRL	29	U
1,1,2,2-Tetrachloroethane	BRL	29	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday October 26th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001 RE
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

Tentatively Identified Compounds

5 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
UNKNOWN SILOXANE	20.755	36 JB
Unknown	26.059	55 J
UNKNOWN ALKANE	34.726	54 J
UNKNOWN ALKANE	36.181	32 J
UNKNOWN ALKANE	38.340	120 J

SEMIVOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A10G777

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday October 24th, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	1900	U
bis(2-Chloroethyl)ether	BRL	1900	U
2-Chlorophenol	BRL	1900	U
1,3-Dichlorobenzene	BRL	1900	U
1,4-Dichlorobenzene	980	1900	J
1,2-Dichlorobenzene	BRL	1900	U
2-Methylphenol	BRL	1900	U
2,2'-oxybis(1-Chloropropane)	BRL	1900	U
N-Nitroso-di-n-propylamine	BRL	1900	U
4-Methylphenol	BRL	1900	U
Hexachloroethane	BRL	1900	U
Isophorone	BRL	1900	U
2-Nitrophenol	BRL	1900	U
2,4-Dimethylphenol	2000	1900	
bis(2-Chloroethoxy)methane	BRL	1900	U
2,4-Dichlorophenol	BRL	1900	U
1,2,4-Trichlorobenzene	BRL	1900	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	1900	U
4-Chloroaniline	BRL	1900	U
Hexachlorobutadiene	BRL	1900	U
4-Chloro-3-methylphenol	BRL	1900	U
2-Methylnaphthalene	BRL	1900	U
Hexachlorocyclopentadiene	BRL	1900	U
2,4,6-Trichlorophenol	BRL	1900	U
2,4,5-Trichlorophenol	BRL	4800	U
2-Chloronaphthalene	BRL	1900	U
2-Nitroaniline	BRL	4800	U
Acenaphthylene	BRL	1900	U
3-Nitroaniline	BRL	4800	U
Acenaphthene	1900	1900	J
2,4-Dinitrophenol	BRL	4800	U
Dibenzofuran	800	1900	J
4-Nitrophenol	BRL	4800	U
Fluorene	1900	1900	

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	1900	U
Diethylphthalate	BRL	1900	U
4-Chlorophenyl-phenylether	BRL	1900	U
4-Nitroaniline	BRL	4800	U
4,6-Dinitro-2-methylphenol	BRL	4800	U
4-Bromophenyl-phenylether	BRL	1900	U
Hexachlorobenzene	BRL	1900	U
Pentachlorophenol	BRL	4800	U
Phenanthrene	17000	1900	
Anthracene	4300	1900	
Di-n-butylphthalate	900	1900	J
Fluoranthene	21000	1900	
Pyrene	22000	1900	
Butylbenzylphthalate	BRL	1900	U
Benzo(a)anthracene	18000	1900	
3,3'-Dichlorobenzidine	BRL	1900	U
Chrysene	17000	1900	

To: MKM-Ravenna AAP
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Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	5300	1900	
Di-n-octylphthalate	BRL	1900	U
Benzo(b)fluoranthene	13000	1900	
Benzo(k)fluoranthene	17000	1900	
Benzo(a)pyrene	16000	1900	
Indeno(1,2,3-cd)pyrene	7900	1900	
Dibenzo(a,h)anthracene	3800	1900	
Benzo(g,h,i)perylene	8000	1900	
Carbazole	1800	1900	J
N-Nitrosodiphenylamine (1)	BRL	1900	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

Tentatively Identified Compounds

30 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	4.790	190000 JBA
UNKNOWN KETONE	4.931	2400 JB
UNKNOWN KETONE	5.559	10000 JB
Unknown	6.230	1300 J
SUBST. PHENOL	7.821	2900 J
SUBST. PHENOL	8.557	2000 J
SUBST. PHENOL	9.249	900 J
UNKNOWN ALKANE	9.639	1100 J
TRIMETHYL-NAPHTHALENE ISOMER	10.862	2000 J
UNKNOWN ALKANE	11.814	1600 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

Tentatively Identified Compounds

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN ALKANE	11.858	3800 J
TETRADECANOIC ACID	12.247	2500 NJ
UNKNOWN ALKANE	13.059	990 J
UNKNOWN ALKANE	14.260	2600 J
PENTACHLORO-1,1'-BIPHENYL IS	14.552	12000 J
UNKNOWN ALKANE	14.801	3600 J
PENTACHLORO-1,1'-BIPHENYL IS	14.985	6100 J
PENTACHLORO-1,1'-BIPHENYL IS	15.115	1600 J
HEXACHLORO-1,1'-BIPHENYL ISO	15.245	2000 J
PENTACHLORO-1,1'-BIPHENYL IS	15.277	3500 J
UNKNOWN ALKANE	15.332	2000 J
DICHLOROETHANE ISOMER	15.364	2400 J
HEXACHLORO-1,1'-BIPHENYL ISO	15.516	2300 J
UNKNOWN ALKANE	16.316	3900 J
UNKNOWN ALKANE	16.782	3900 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday October 24th, 2000

RE: LL11SD-005-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A10G777-001
Sample Date: 10/09/00
Date Received: 10/10/00
Units: ug/Kg

Tentatively Identified Compounds

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN ALKANE	17.226	2600 J
UNKNOWN ALKANE	17.691	6500 J
UNKNOWN ALKANE	19.455	7900 J
UNKNOWN ALKANE	19.985	4300 J
UNKNOWN ALCOHOL	20.050	14000 J

CHAIN OF CUSTODY

DL	Oil	WT = PType
A	- Air	0

6. Other

None

1

Bill of Lading	See M

Dr. W. J. S.



Chicago Laboratory
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stan Leavanger

Contact: Stan
Company: mtm
Address: 8451 St. Ave 5
Ravenna, OH 44266
Phone: 330.358.2920
Fax: 2924
E-Mail:

Shaded Areas For Internal Use Only

Company: STL
Address: STL
Phone: STL
Fax: STL
PO#: STL

Shaded Areas For Internal Use Only

Lab Lot # 9A110188
Package Sealed (Yes) No () Samples Sealed (Yes) No ()
Received on Ice (Yes) No () Samples Intact (Yes) No ()
Temperature °C of Cooler (3.6) (4.4)
Within Hold Time (Yes) No () Preserv. Indicated (Yes) No ()
pH Check ok (Yes) No () Res. Cl₂ Check ok (Yes) No ()
Sample Labels and COC Agree (Yes) No () COC not present
Additional Analyses / Remarks
LL11 PZ Sed. Samples
Soil @ Sed. loc.
Soil @ Sed. loc.
Soil @ Sed. loc.
OD1 IRA
OD1 IRA
Soil @ sed. location
" " " Duplicate

Laboratory ID	Client Sample ID	Sampling Date	Matrix	Ref #	Quote											
					#/Cont.	Volume	Preserv	12	12	10	10	8	8	5	5	5
001	LL11SD-025-0001-SD	11/14/00 0850	S	G	Explosives	6010 B	TALMETAL	X	X	X	X	X	X	X	X	X
002	LL11SD-031-0001-SD	11/14/00 0827	S	G	X	X	X	X	X	X	X	X	X	X	X	X
003	LL11SD-033-0001-SD	11/14/00 0932	S	G	X	X	X	X	X	X	X	X	X	X	X	X
004	LL11SD-024-0001-SD	11/14/00 0908	SE	G	X	X	X	X	X	X	X	X	X	X	X	X
005	LL11SD-030-0001-SD	11/14/00 0955	SE	G	X	X	X	X	X	X	X	X	X	X	X	X
006	OD1SD-005-0001-SD	11/14/00 1158	S	G	X	X	X	X	X	X	X	X	X	X	X	X
007	OD1SD-005-0002-SD	11/14/00 1258	S	G	X	X	X	X	X	X	X	X	X	X	X	X
008	LL11SD-021-0001-SD	11/14/00 1413	SE	G	X	X	X	X	X	X	X	X	X	X	X	X
009	LL11SD-026-0001-SD	11/14/00 1335	S	G	X	X	X	X	X	X	X	X	X	X	X	X
010	LL11SD-029-0001-SD	11/14/00 1300	S	G	X	X	X	X	X	X	X	X	X	X	X	X
011	LL11SD-029-0001-FD	11/14/00 1300	S	G	X	X	X	X	X	X	X	X	X	X	X	X
012	LL11SD-037-0001-SD	11/14/00 1435	S	G	X	X	X	X	X	X	X	X	X	X	X	X

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
<u>STL</u>	<u>MTM</u>	<u>11/16/00</u>	<u>1730</u>	<u>STL</u>	<u>STL</u>	<u>11/17/00</u>	<u>0945</u>

Matrix Key	Container Key	Preservative Key	Comments
WW = Wastewater W = Water S = Soil SL = Sludge MS = Miscellaneous OL = Oil A = Air	1. Plastic 2. VOA Vial 3. Sterile Plastic 4. Amber Glass 5. Widemouth Glass 6. Other	1. HCl, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn Acetate, Cool to 4° 6. Cool to 4° 7. None	Date Received <u>11/17/00</u> Courier: <u>FX</u> Hand Delivered ☐ Bill of Lading: <u>see attach</u>

EXPLOSIVES DATA PACKAGE
MKM - RAVENNA AAP
JOB# 9A11G977

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 19th, 2000

RE: LL11SD-013-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-001
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 19th, 2000

RE: LL11SD-013-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G977-002
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 19th, 2000

RE: LL11SD-013-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G977-013
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDY	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

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Attn: Mr. Stan Levenger

Date: Tuesday December 19th. 2000

RE: LL11SD-019-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-007
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	99	U
1,3,5-Trinitrobenzene	BRL	99	U
1,3-Dinitrobenzene	BRL	99	U
Nitrobenzene	BRL	99	U
2,4,6-TNT	BRL	99	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	99	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday December 19th, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 19th, 2000

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

EXPLOSIVE DATA PACKAGE
MKM-RAVENNA AAP
JOB# 9A11G988

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Case Narrative.....	24
Quality Control Summary	27
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Raw Quality Control Data Package	137

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SD-033-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-003
Sample Date: 11/16/00
Date Received: 11/17/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	240	U
RDX	BRL	98	U
1,3,5-Trinitrobenzene	BRL	98	U
1,3-Dinitrobenzene	BRL	98	U
Nitrobenzene	BRL	98	U
2,4,6-TNT	BRL	98	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	98	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	490	U
3-Nitrotoluene	BRL	200	U

**METALS DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A11G977**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-001
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	65.6	%	0.10
Cyanide, Total	0.62	u mg/kg	0.62
Silver, Total	0.56	u mg/kg	0.56
Aluminum, Total	14800	mg/kg	22.6
Arsenic, Total	30.0	mg/kg	2.2
Barium, Total	70.5	mg/kg	1.1
Beryllium, Total	0.93	mg/kg	0.45
Calcium, Total	2410	mg/kg	11.3
Cadmium, Total	0.23	u mg/kg	0.23
Cobalt, Total	14.3	mg/kg	0.56
Chromium, Total	21.7	mg/kg	1.1
Copper, Total	24.5	mg/kg	1.1
Iron, Total	30500	mg/kg	5.6
Mercury, Total	0.07	mg/kg	0.05

To: MKM-Ravenna AAP
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Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-001
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1100	mg/kg	56.5
Magnesium, Total	1900	mg/kg	11.3
Manganese, Total	910	mg/kg	1.1
Sodium, Total	113	u mg/kg	113
Nickel, Total	24.4	mg/kg	1.1
Lead, Total	34.8	mg/kg	2.2
Antimony, Total	0.42	mg/kg	0.33
Selenium, Total	0.93	mg/kg	0.56
Thallium, Total	0.22	u mg/kg	0.22
Vanadium, Total	20.4	mg/kg	0.56
Zinc, Total	263	mg/kg	1.1

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G977-002
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	65.9	%	0.10
Cyanide, Total	0.68	u mg/kg	0.68
Silver, Total	0.58	u mg/kg	0.58
Aluminum, Total	14400	mg/kg	23.3
Arsenic, Total	26.2	mg/kg	2.2
Barium, Total	71.6	mg/kg	1.2
Beryllium, Total	0.81	mg/kg	0.47
Calcium, Total	2390	mg/kg	11.7
Cadmium, Total	0.23	u mg/kg	0.23
Cobalt, Total	12.5	mg/kg	0.58
Chromium, Total	19.6	mg/kg	1.2
Copper, Total	22.0	mg/kg	1.2
Iron, Total	27100	mg/kg	5.8
Mercury, Total	0.05	u mg/kg	0.05

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G977-002
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1200	mg/kg	58.4
Magnesium, Total	1900	mg/kg	11.7
Manganese, Total	753	mg/kg	1.2
Sodium, Total	117	u mg/kg	117
Nickel, Total	21.5	mg/kg	1.2
Lead, Total	22.5	mg/kg	2.2
Antimony, Total	0.46	mg/kg	0.33
Selenium, Total	0.63	mg/kg	0.58
Thallium, Total	0.27	mg/kg	0.22
Vanadium, Total	21.1	mg/kg	0.58
Zinc, Total	235	mg/kg	1 2

To: MKM-Ravenna AAP
8451 State Rt. 5
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G977-013
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	13.0	ug/L	0.010
Silver, Total	5.0	u ug/L	5.0
Aluminum, Total	200	u ug/L	200
Arsenic, Total	2.0	u ug/L	2.0
Barium, Total	10.0	u ug/L	10.0
Beryllium, Total	4.0	u ug/L	4.0
Calcium, Total	134	ug/L	100
Cadmium, Total	2.0	u ug/L	2.0
Cobalt, Total	5.0	u ug/L	5.0
Chromium, Total	10.0	u ug/L	10.0
Copper, Total	10.0	u ug/L	10.0
Iron, Total	50.0	u ug/L	50.0
Mercury, Total	0.20	u ug/L	0.20
Potassium, Total	500	u ug/L	500

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-013-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G977-013
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Total	100	u ug/L	100
Manganese, Total	10.0	u ug/L	10.0
Sodium, Total	1000	u ug/L	1000
Nickel, Total	10.0	u ug/L	10.0
Lead, Total	2.0	u ug/L	2.0
Antimony, Total	3.0	u ug/L	3.0
Selenium, Total	5.0	u ug/L	5.0
Thallium, Total	2.0	u ug/L	2.0
Vanadium, Total	5.0	u ug/L	5.0
Zinc, Total	10.0	u ug/L	10.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-019-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-007
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	65.3	%	0.10
Cyanide, Total	0.54	u mg/kg	0.54
Silver, Total	0.55	u mg/kg	0.55
Aluminum, Total	12700	mg/kg	22.2
Arsenic, Total	23.7	mg/kg	2.4
Barium, Total	84.7	mg/kg	1.1
Beryllium, Total	0.72	mg/kg	0.44
Calcium, Total	2230	mg/kg	11.1
Cadmium, Total	0.23	mg/kg	0.22
Cobalt, Total	9.4	mg/kg	0.55
Chromium, Total	17.2	mg/kg	1.1
Copper, Total	16.2	mg/kg	1.1
Iron, Total	25300	mg/kg	5.5
Mercury, Total	0.06	mg/kg	0.05

To: MKM-Ravenna AAP
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Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-019-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-007
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1170	mg/kg	55.5
Magnesium, Total	2470	mg/kg	11.1
Manganese, Total	565	mg/kg	1.1
Sodium, Total	111	u mg/kg	111
Nickel, Total	17.5	mg/kg	1.1
Lead, Total	240	mg/kg	11.8
Antimony, Total	0.35	u mg/kg	0.35
Selenium, Total	1.5	mg/kg	0.55
Thallium, Total	0.24	u mg/kg	0.24
Vanadium, Total	24.0	mg/kg	0.55
Zinc, Total	184	mg/kg	1.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	23.5	%	0.10
Cyanide, Total	2.2	mg/kg	2.0
Silver, Total	1.3	u mg/kg	1.3
Aluminum, Total	7700	mg/kg	53.9
Arsenic, Total	39.4	mg/kg	5.8
Barium, Total	389	mg/kg	2.7
Beryllium, Total	1.1	u mg/kg	1.1
Calcium, Total	5120	mg/kg	26.9
Cadmium, Total	0.54	u mg/kg	0.54
Cobalt, Total	13.9	mg/kg	1.3
Chromium, Total	14.8	mg/kg	2.7
Copper, Total	16.7	mg/kg	2.7
Iron, Total	48300	mg/kg	13.5

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Mercury, Total	0.14	u mg/kg	0.14
Potassium, Total	854	mg/kg	135
Magnesium, Total	1920	mg/kg	26.9
Manganese, Total	8280	mg/kg	13.5
Sodium, Total	269	u mg/kg	269
Nickel, Total	13.8	mg/kg	2.7
Lead, Total	119	mg/kg	5.8
Antimony, Total	0.87	u mg/kg	0.87
Selenium, Total	6.5	mg/kg	1.3
Thallium, Total	0.58	u mg/kg	0.58
Vanadium, Total	18.6	mg/kg	1.3
Zinc, Total	454	mg/kg	2.7

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	34.3	%	0.10
Cyanide, Total	0.97	u mg/kg	0.97
Silver, Total	1.0	u mg/kg	1.0
Aluminum, Total	11400	mg/kg	41.6
Arsenic, Total	9.0	mg/kg	4.5
Barium, Total	80.4	mg/kg	2.1
Beryllium, Total	0.83	u mg/kg	0.83
Calcium, Total	3460	mg/kg	20.8
Cadmium, Total	0.60	mg/kg	0.42
Cobalt, Total	5.4	mg/kg	1.0
Chromium, Total	15.0	mg/kg	2.1
Copper, Total	20.4	mg/kg	2.1
Iron, Total	17800	mg/kg	10.4

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8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Mercury, Total	0.1	u mg/kg	0.1
Potassium, Total	1520	mg/kg	104
Magnesium, Total	2210	mg/kg	20.8
Manganese, Total	129	mg/kg	2.1
Sodium, Total	208	u mg/kg	208
Nickel, Total	14.7	mg/kg	2.1
Lead, Total	48.7	mg/kg	4.5
Antimony, Total	0.67	u mg/kg	0.67
Selenium, Total	1.2	mg/kg	1.0
Thallium, Total	0.45	u mg/kg	0.45
Vanadium, Total	19.1	mg/kg	1.0
Zinc, Total	465	mg/kg	2.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-027-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-010
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	35.2	%	0.10
Cyanide, Total	0.71	u mg/kg	0.71
Silver, Total	1.0	u mg/kg	1.0
Aluminum, Total	13500	mg/kg	40.0
Arsenic, Total	13.9	mg/kg	3.6
Barium, Total	88.1	mg/kg	2.0
Beryllium, Total	0.80	mg/kg	0.80
Calcium, Total	3730	mg/kg	20.0
Cadmium, Total	0.92	mg/kg	0.40
Cobalt, Total	11.8	mg/kg	1.0
Chromium, Total	20.7	mg/kg	2.0
Copper, Total	26.9	mg/kg	2.0
Iron, Total	27500	mg/kg	10.0

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8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SD-027-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-010
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Mercury, Total	0.09	u mg/kg	0.09
Potassium, Total	1820	mg/kg	100
Magnesium, Total	3660	mg/kg	20.0
Manganese, Total	389	mg/kg	2.0
Sodium, Total	200	u mg/kg	200
Nickel, Total	25.1	mg/kg	2.0
Lead, Total	63.3	mg/kg	3.6
Antimony, Total	0.55	u mg/kg	0.55
Selenium, Total	1.0	u mg/kg	1.0
Thallium, Total	0.36	u mg/kg	0.36
Vanadium, Total	25.6	mg/kg	1.0
Zinc, Total	137	mg/kg	2.0

**METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A11G988**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 8th, 2000

RE: LL11SD-033-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-003
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	77.9	%	0.10
Cyanide, Total	4.2	mg/kg	0.58
Silver, Total	0.41	u mg/kg	0.41
Aluminum, Total	14600	mg/kg	16.2
Arsenic, Total	15.4	mg/kg	3.6
Barium, Total	92.2	mg/kg	0.81
Beryllium, Total	1.1	mg/kg	0.32
Calcium, Total	3990	mg/kg	8.1
Cadmium, Total	0.26	mg/kg	0.16
Cobalt, Total	8.4	mg/kg	0.41
Chromium, Total	17.2	mg/kg	0.81
Copper, Total	13.7	mg/kg	0.81
Iron, Total	25100	mg/kg	4.1
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 8th, 2000

RE: LL11SD-033-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-003
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1810	mg/kg	40.6
Magnesium, Total	3270	mg/kg	8.1
Manganese, Total	1020	mg/kg	4.1
Sodium, Total	852	mg/kg	81.2
Nickel, Total	18.1	mg/kg	0.81
Lead, Total	23.3	mg/kg	1.8
Antimony, Total	0.49	mg/kg	0.27
Selenium, Total	0.51	mg/kg	0.41
Thallium, Total	0.18	u mg/kg	0.18
Vanadium, Total	27.8	mg/kg	0.41
Zinc, Total	93.1	mg/kg	0.81

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 8th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	77.5	%	0.10
Cyanide, Total	0.58	u mg/kg	0.58
Silver, Total	0.44	u mg/kg	0.44
Aluminum, Total	12800	mg/kg	17.7
Arsenic, Total	17.2	mg/kg	3.4
Barium, Total	64.2	mg/kg	0.88
Beryllium, Total	0.69	mg/kg	0.35
Calcium, Total	20900	mg/kg	8.8
Cadmium, Total	0.20	mg/kg	0.18
Cobalt, Total	11.5	mg/kg	0.44
Chromium, Total	18.3	mg/kg	0.88
Copper, Total	20.9	mg/kg	0.88
Iron, Total	24100	mg/kg	4.4
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 8th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	2520	mg/kg	44.2
Magnesium, Total	5960	mg/kg	8.8
Manganese, Total	394	mg/kg	0.88
Sodium, Total	832	mg/kg	88.4
Nickel, Total	29.2	mg/kg	0.88
Lead, Total	13.6	mg/kg	3.4
Antimony, Total	0.26	u mg/kg	0.26
Selenium, Total	0.44	u mg/kg	0.44
Thallium, Total	0.26	mg/kg	0.17
Vanadium, Total	21.6	mg/kg	0.44
Zinc, Total	90.5	mg/kg	0.88

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STL Chicago

2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200

Fax: 708 534 5211

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January 4, 2001

Mr. Stan Levenger
MKM, Engineers, Inc.
Ravenna Army Ammunition Plant
8451 St., Rt.5, Building 1038
Ravenna, OH 44266

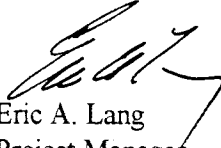
RE: Ravenna AAP
Analytical Report & EDD
Lot 9A11G978

Dear Mr. Levenger:

The enclosed analytical report is for the project and lot number listed above. All analyses were completed at STL Sacramento. If you have any questions, please contact me at 708-534-5200.

Sincerely,

Severn Trent Laboratories


Eric A. Lang
Project Manager

sj

Enclosures

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

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December 29, 2000

STL SACRAMENTO PROJECT NUMBER: **G0K180195**
PO/CONTRACT: **G00073-LA52000**

Eric Lang
Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466

Dear Mr. Lang,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on November 18, 2000. These samples are associated with your 9A11G978 project.

The case narrative is an integral part of this report.

Preliminary results were sent via facsimile on December 29, 2000.

If you have any questions, please feel free to call me at (916) 374-4433.

Sincerely,



Robert Hrabak
Project Manager

SOLID, 8330, Nitroglycerin only

STL Chicago

Client Sample ID: LL11SD-032-0001-SD

HPLC

Lot-Sample #...: GOK180195-008 Work Order #...: DP6FG1AD Matrix.....: SOLID
Date Sampled...: 11/16/00 Date Received...: 11/18/00
Prep Date.....: 11/28/00 Analysis Date...: 12/27/00
Prep Batch #...: 0333374
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.67	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	97	(79 - 120)
3,4-Dinitrotoluene	99	(35 - 165)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SOLID, UV/HPLC *per* SOP, Nitroguanidine

STL Chicago

Client Sample ID: LL11SD-032-0001-SD

Trace Level Organic Compounds

Lot-Sample #....: GOK180195-008 Work Order #....: DP6FG1AG Matrix.....: SOLID
Date Sampled....: 11/16/00 Date Received...: 11/18/00
Prep Date.....: 11/24/00 Analysis Date...: 12/01/00
Prep Batch #....: 0332328
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Nitroguanidine	ND CON	0.33	mg/kg	NONE UV/HPLC per

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.
CON Confirmation analysis.

General Chemistry - Various Methods

STL Chicago

Client Sample ID: LL11SD-032-0001-SD

General Chemistry

Lot-Sample #....: G0K180195-008 Work Order #....: DP6FG Matrix.....: SOLID
Date Sampled....: 11/16/00 Date Received...: 11/18/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.1 B	2.7	mg/kg	MCAWW 353.2	12/05-12/07/00	0340279

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

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MKM RAVENNA AAP
RFW# 9A11G977

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday December 1st, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	21	U
Vinyl chloride	BRL	21	U
Bromomethane	BRL	21	U
Chloroethane	BRL	21	U
1,1-Dichloroethene	BRL	21	U
Acetone	BRL	21	U
Carbon Disulfide	BRL	21	U
Methylene Chloride	BRL	21	U
1,2-Dichloroethene (total)	BRL	21	U
1,1-Dichloroethane	BRL	21	U
2-Butanone	BRL	21	U
Chloroform	BRL	21	U
1,1,1-Trichloroethane	BRL	21	U
Carbon Tetrachloride	BRL	21	U
Benzene	BRL	21	U
1,2-Dichloroethane	BRL	21	U
Trichloroethene	BRL	21	U

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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 1st, 2000

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	21	U
Bromodichloromethane	BRL	21	U
cis-1,3-Dichloropropene	BRL	21	U
4-Methyl-2-pentanone	BRL	21	U
Toluene	BRL	21	U
trans-1,3-Dichloropropene	BRL	21	U
1,1,2-Trichloroethane	BRL	21	U
Tetrachloroethene	BRL	21	U
2-Hexanone	BRL	21	U
Dibromochloromethane	BRL	21	U
Chlorobenzene	BRL	21	U
Ethylbenzene	BRL	21	U
Xylene (total)	BRL	21	U
Styrene	BRL	21	U
Bromoform	BRL	21	U
1,1,2,2-Tetrachloroethane	BRL	21	U

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8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday December 1st, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	14	U
Vinyl chloride	BRL	14	U
Bromomethane	BRL	14	U
Chloroethane	BRL	14	U
1,1-Dichloroethene	BRL	14	U
Acetone	31	14	
Carbon Disulfide	BRL	14	U
Methylene Chloride	BRL	14	U
1,2-Dichloroethene (total)	BRL	14	U
1,1-Dichloroethane	BRL	14	U
2-Butanone	BRL	14	U
Chloroform	BRL	14	U
1,1,1-Trichloroethane	BRL	14	U
Carbon Tetrachloride	BRL	14	U
Benzene	BRL	14	U
1,2-Dichloroethane	BRL	14	U
Trichloroethene	BRL	14	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 1st, 2000

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	14	U
Bromodichloromethane	BRL	14	U
cis-1,3-Dichloropropene	BRL	14	U
4-Methyl-2-pentanone	BRL	14	U
Toluene	19	14	
trans-1,3-Dichloropropene	BRL	14	U
1,1,2-Trichloroethane	BRL	14	U
Tetrachloroethene	BRL	14	U
2-Hexanone	BRL	14	U
Dibromochloromethane	BRL	14	U
Chlorobenzene	BRL	14	U
Ethylbenzene	BRL	14	U
Xylene (total)	BRL	14	U
Styrene	BRL	14	U
Bromoform	BRL	14	U
1,1,2,2-Tetrachloroethane	BRL	14	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Friday December 1st, 2000

RE: LL11SD-027-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-010
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	14	U
Vinyl chloride	BRL	14	U
Bromomethane	BRL	14	U
Chloroethane	BRL	14	U
1,1-Dichloroethene	BRL	14	U
Acetone	50	14	
Carbon Disulfide	BRL	14	U
Methylene Chloride	BRL	14	U
1,2-Dichloroethene (total)	BRL	14	U
1,1-Dichloroethane	BRL	14	U
2-Butanone	BRL	14	U
Chloroform	BRL	14	U
1,1,1-Trichloroethane	BRL	14	U
Carbon Tetrachloride	BRL	14	U
Benzene	BRL	14	U
1,2-Dichloroethane	BRL	14	U
Trichloroethene	BRL	14	U

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Date: Friday December 1st, 2000

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Project # 00000-000-000-0000
Lab ID: 9A11G977-010
Sample Date: 11/15/00
Date Received: 11/16/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	14	U
Bromodichloromethane	BRL	14	U
cis-1,3-Dichloropropene	BRL	14	U
4-Methyl-2-pentanone	BRL	14	U
Toluene	BRL	14	U
trans-1,3-Dichloropropene	BRL	14	U
1,1,2-Trichloroethane	BRL	14	U
Tetrachloroethene	BRL	14	U
2-Hexanone	BRL	14	U
Dibromochloromethane	BRL	14	U
Chlorobenzene	BRL	14	U
Ethylbenzene	BRL	14	U
Xylene (total)	BRL	14	U
Styrene	BRL	14	U
Bromoform	BRL	14	U
1,1,2,2-Tetrachloroethane	BRL	14	U

VOLATILES BY GC/MS
MKM-RAVENNA AAP
RFW# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

SEMIVOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	420	U
bis(2-Chloroethyl)ether	BRL	420	U
2-Chlorophenol	BRL	420	U
1,3-Dichlorobenzene	BRL	420	U
1,4-Dichlorobenzene	BRL	420	U
1,2-Dichlorobenzene	BRL	420	U
2-Methylphenol	BRL	420	U
2,2'-oxybis(1-Chloropropane)	BRL	420	U
N-Nitroso-di-n-propylamine	BRL	420	U
4-Methylphenol	BRL	420	U
Hexachloroethane	BRL	420	U
Isophorone	BRL	420	U
2-Nitrophenol	BRL	420	U
2,4-Dimethylphenol	BRL	420	U
bis(2-Chloroethoxy)methane	BRL	420	U
2,4-Dichlorophenol	BRL	420	U
1,2,4-Trichlorobenzene	BRL	420	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	420	U
4-Chloroaniline	BRL	420	U
Hexachlorobutadiene	BRL	420	U
4-Chloro-3-methylphenol	BRL	420	U
2-Methylnaphthalene	BRL	420	U
Hexachlorocyclopentadiene	BRL	420	U
2,4,6-Trichlorophenol	BRL	420	U
2,4,5-Trichlorophenol	BRL	1100	U
2-Chloronaphthalene	BRL	420	U
2-Nitroaniline	BRL	1100	U
Acenaphthylene	BRL	420	U
3-Nitroaniline	BRL	1100	U
Acenaphthene	BRL	420	U
2,4-Dinitrophenol	BRL	1100	U
Dibenzofuran	BRL	420	U
4-Nitrophenol	BRL	1100	U
Fluorene	BRL	420	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	420	U
Diethylphthalate	BRL	420	U
4-Chlorophenyl-phenylether	BRL	420	U
4-Nitroaniline	BRL	1100	U
4,6-Dinitro-2-methylphenol	BRL	1100	U
4-Bromophenyl-phenylether	BRL	420	U
Hexachlorobenzene	BRL	420	U
Pentachlorophenol	BRL	1100	U
Phenanthrene	BRL	420	U
Anthracene	BRL	420	U
Di-n-butylphthalate	BRL	420	U
Fluoranthene	160	420	J
Pyrene	BRL	420	U
Butylbenzylphthalate	BRL	420	U
Benzo(a)anthracene	BRL	420	U
3,3'-Dichlorobenzidine	BRL	420	U
Chrysene	94	420	J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	420	U
Di-n-octylphthalate	BRL	420	U
Benzo(b)fluoranthene	BRL	420	U
Benzo(k)fluoranthene	BRL	420	U
Benzo(a)pyrene	85	420	J
Indeno(1,2,3-cd)pyrene	BRL	420	U
Dibenzo(a,h)anthracene	BRL	420	U
Benzo(g,h,i)perylene	BRL	420	U
Carbazole	BRL	420	U
N-Nitrosodiphenylamine (1)	BRL	420	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	4.763	50000 JAB

**PESTICIDE/PCB DATA PACKAGE
MKM-RAVENNA AAP
JOB# 9A11G988**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday December 5th, 2000

Attn: Mr. Stan Levenger

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	1.1	U
beta-BHC	BRL	1.1	U
delta-BHC	BRL	1.1	U
gamma-BHC (Lindane)	BRL	1.1	U
Heptachlor	BRL	1.1	U
Aldrin	BRL	1.1	U
Heptachlor epoxide	0.98	1.1	
Endosulfan I	BRL	1.1	U
Dieldrin	BRL	2.1	U
4,4'-DDE	BRL	2.1	U
Endrin	BRL	2.1	U
Endosulfan II	BRL	2.1	U
4,4'-DDD	BRL	2.1	U
Endosulfan sulfate	BRL	2.1	U
4,4'-DDT	BRL	2.1	U
Methoxychlor	BRL	11	U
Endrin ketone	BRL	2.1	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	2.1	U
alpha-Chlordane	BRL	1.1	U
gamma-Chlordane	BRL	1.1	U
Toxaphene	BRL	21	U

PCB DATA PACKAGE
MKM - RAVENNA AAP
JOB# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	11	U
Aroclor-1221	BRL	11	U
Aroclor-1232	BRL	11	U
Aroclor-1242	BRL	11	U
Aroclor-1248	BRL	11	U
Aroclor-1254	BRL	11	U
Aroclor-1260	BRL	11	U

WET CHEMISTRY DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A11G977

Laboratory Chronicle	1
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Case Narrative	35
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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-013-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-001
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.4	u mg/kg	1.4
Sulfide	82.1	mg/kg	36.6
Sulfate	71.2	u mg/kg	71.2

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-013-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G977-002
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.5	u mg/kg	1.5
Sulfide	82.5	mg/kg	35.8
Sulfate	73.2	u mg/kg	73.2

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SD-013-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G977-013
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-019-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-007
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.5	u mg/kg	1.5
Sulfide	90.3	mg/kg	37.9
Sulfate	72.8	u mg/kg	72.8

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-018-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-008
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
TOC BY LLOYD KHAN	46000	mg/kg	6060
Nitrate, as N	4.2	u mg/kg	4.2
Sulfide	276	mg/kg	106
Sulfate	593	mg/kg	212

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SD-028-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G977-009
Sample Date: 11/15/00
Date Received: 11/16/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
TOC BY LLOYD KHAN	34400	mg/kg	3920
Nitrate, as N	2.5	u mg/kg	2.5
Sulfide	975	mg/kg	70.2
Sulfate	127	u mg/kg	127

WET CHEMISTRY DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-033-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-003
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	3.8	mg/kg	0.64
Sulfide	113	mg/kg	26.2
Sulfate	64.2	u mg/kg	64.2

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SD-032-0001-SD
Project # 00000-000-000-0000
Lab ID: 9A11G988-012
Sample Date: 11/16/00
Date Received: 11/17/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.60	u mg/kg	0.60
Sulfide	25.6	u mg/kg	25.6
Sulfate	59.5	u mg/kg	59.5

SEVERN

TRENT

SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR Particle Size

Particle Size of Soils by ASTM D422

Sample preparation by: D2217

Client: STL Chicago

Project No.: 20000

ETR(s) #: 80786

Client Code: STLILC

Job No.: MKMRAV

SDG(s): 9A11G982

Date Received: 30-Nov-00

Start Date: 30-Nov-00

End Date: 06-Dec-00

Lab ID: 438554

Sample ID: 018-0001-SD

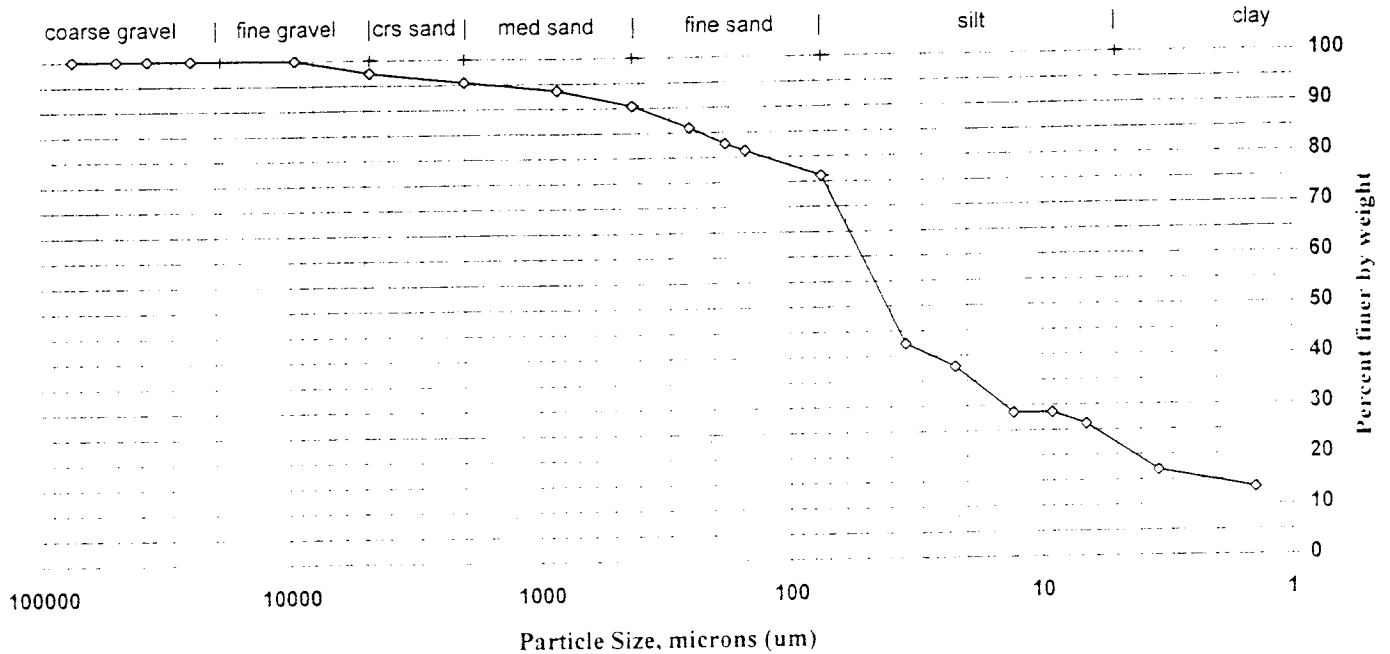
Percent Solids: 36.8%

Maximum Particle Size: 9.5 mm

Specific Gravity: 2.65

Shape (> #10): Subrounded

Hardness (> #10): Brittle



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	97.4	2.6
#10	2000	95.4	2.0
#20	850	93.6	1.8
#40	425	90.4	3.2
#60	250	85.9	4.4
#80	180	82.7	3.2
#100	150	81.3	1.4
#200	75	76.1	5.1
Hydrometer	34.8	42.5	33.7
	22.3	37.8	4.7
	13.1	28.5	9.3
	9.1	28.5	0.0
	6.6	26.2	2.3
	3.4	16.9	9.3
V	1.4	13.4	3.5

Dispersion of soil for hydrometer test by mechanical mixer with metal paddle, operated for at least one minute within a dispersion cup with 125 mls sodium hexametaphosphate

Submitted By: [Signature]

Date: 12-7-00

STL - Burlington 80786ps::Report

Particle Size of Soils by ASTM D422

Sample preparation by: D2217

Client: STL Chicago
Client Code: STLILC
Date Received: 30-Nov-00

Project No.: 20000
Job No.: MKMRAV
Start Date: 30-Nov-00

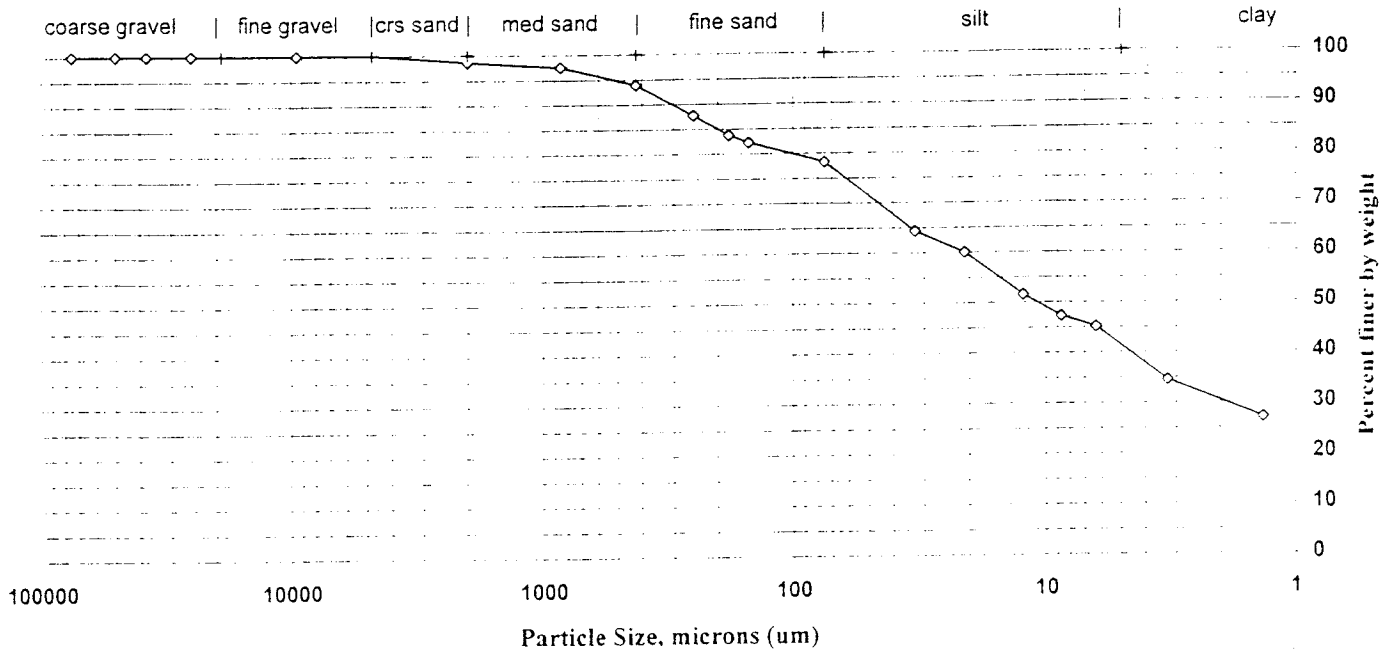
ETR(s) #: 80786
SDG(s): 9A11G982
End Date: 06-Dec-00

Lab ID: 438555

Sample ID: 028-0001-SD

Percent Solids: 40.9%
Specific Gravity: 2.65

Maximum Particle Size: Crs sand
Shape (> #10): Subrounded
Hardness (> #10): Brittle



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	98.6	1.4
#20	850	97.5	1.1
#40	425	93.9	3.6
#60	250	87.8	6.1
#80	180	83.8	4.0
#100	150	82.3	1.5
#200	75	78.3	4.0
Hydrometer	32.6	64.3	13.9
	20.9	60.1	4.3
	12.5	51.6	8.5
	8.7	47.3	4.3
	6.3	45.2	2.1
	3.2	34.6	10.6
N	1.8	27.1	7.4

Dispersion of soil for hydrometer test by mechanical mixer with metal paddle, operated for at least one minute within a dispersion cup with 125 mls sodium hexametaphosphate

Particle Size of Soils by ASTM D422

Sample preparation by: D2217

Client: STL Chicago
Client Code: STLILC
Date Received: 30-Nov-00

Project No.: 20000
Job No.: MKMRAV
Start Date: 30-Nov-00

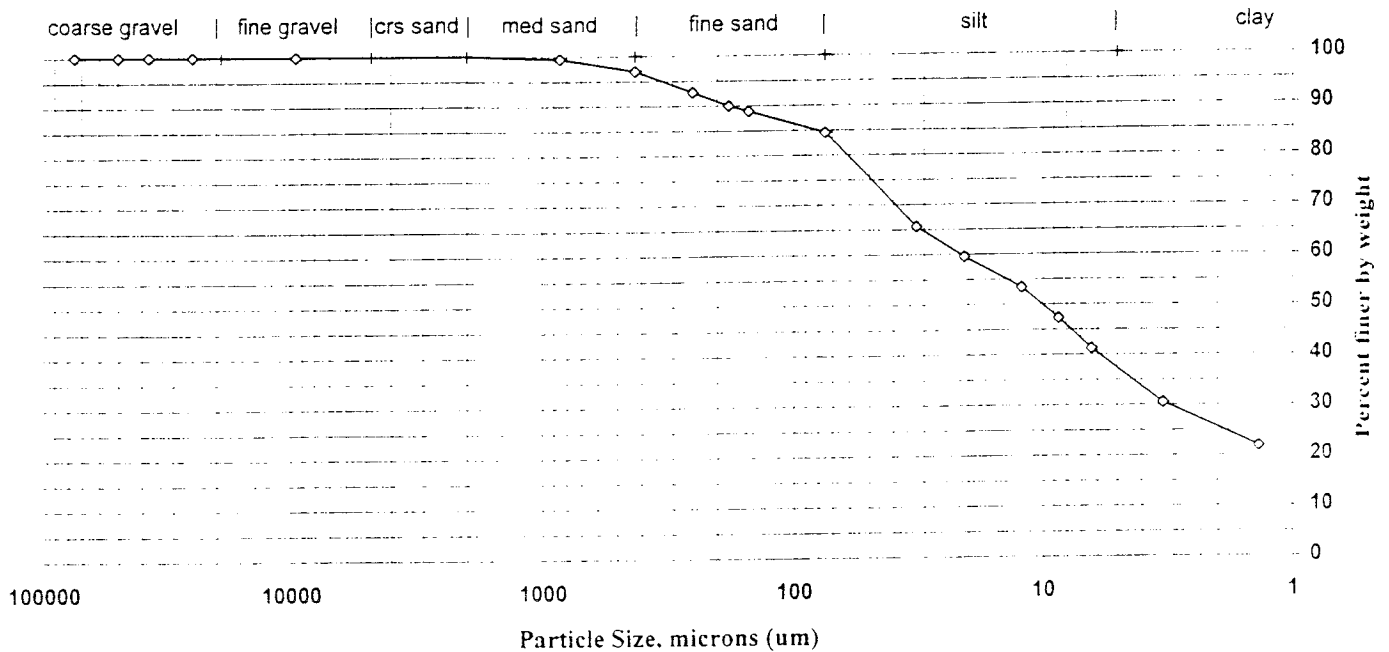
ETR(s) #: 80786
SDG(s): 9A11G982
End Date: 06-Dec-00

Lab ID: 438556

Sample ID: 027-0001-SD

Percent Solids: 47.8%
Specific Gravity: 2.65

Maximum Particle Size: Med sand
Shape (> #10): N/A
Hardness (> #10): N/A



Sieve size	Particle size, um	Percent finer	Incremental percent
3 inch	75000	100.0	0.0
2 inch	50000	100.0	0.0
1.5 inch	37500	100.0	0.0
1 inch	25000	100.0	0.0
3/4 inch	19000	100.0	0.0
3/8 inch	9500	100.0	0.0
#4	4750	100.0	0.0
#10	2000	100.0	0.0
#20	850	99.5	0.5
#40	425	97.0	2.5
#60	250	92.7	4.3
#80	180	90.0	2.7
#100	150	88.9	1.1
#200	75	84.5	4.3
Hydrometer	32.2	65.6	18.9
	20.7	59.5	6.1
	12.2	53.4	6.1
	8.6	47.3	6.1
	6.3	41.2	6.1
	4.75	30.5	10.7
V	1.4	21.9	8.6

Dispersion of soil for hydrometer test by mechanical mixer with metal paddle, operated for at least one minute within a dispersion cup with 125 mls sodium hexametaphosphate

Submitted By: STL

Date: 12-7-00

STL - Burlington 80786ps::Report

EXPLOSIVE DATA PACKAGE
MKM-RAVENNA AAP
JOB# 9A11G992

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st., 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	250	U
RDX	BRL	100	U
1,3,5-Trinitrobenzene	BRL	100	U
1,3-Dinitrobenzene	BRL	100	U
Nitrobenzene	BRL	100	U
2,4,6-TNT	BRL	100	U
Tetryl	BRL	200	U
2,4-Dinitrotoluene	BRL	100	U
2,6-Dinitrotoluene	BRL	200	U
2-Nitrotoluene	BRL	200	U
4-Nitrotoluene	BRL	500	U
3-Nitrotoluene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 21st, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/L

Explosives by HPLC / Method 8330

Compound	Result	Reporting Limit	Flag
HMX	BRL	0.39	U
RDX	BRL	0.16	U
1,3,5-Trinitrobenzene	BRL	0.16	U
1,3-Dinitrobenzene	BRL	0.16	U
Nitrobenzene	BRL	0.16	U
2,4,6-TNT	BRL	0.16	U
Tetryl	BRL	0.31	U
2,4-Dinitrotoluene	BRL	0.16	U
2,6-Dinitrotoluene	BRL	0.31	U
2-Nitrotoluene	BRL	0.31	U
4-Nitrotoluene	BRL	0.78	U
3-Nitrotoluene	BRL	0.31	U

**METALS DATA PACKAGE
MKM - RAVENNA AAP
RFW# 9A11G992**

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	84.7	%	0.10
Cyanide, Total	0.54	u mg/kg	0.54
Silver, Total	0.37	u mg/kg	0.37
Aluminum, Total	8540	mg/kg	14.9
Arsenic, Total	17.9	mg/kg	1.4
Barium, Total	32.3	mg/kg	0.75
Beryllium, Total	0.55	mg/kg	0.30
Calcium, Total	365	mg/kg	7.5
Cadmium, Total	0.15	u mg/kg	0.15
Cobalt, Total	7.3	mg/kg	0.37
Chromium, Total	12.1	mg/kg	0.75
Copper, Total	20.4	mg/kg	0.75
Iron, Total	22600	mg/kg	3.7
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	921	mg/kg	37.4
Magnesium, Total	1990	mg/kg	7.5
Manganese, Total	253	mg/kg	0.75
Sodium, Total	744	mg/kg	74.7
Nickel, Total	15.7	mg/kg	0.75
Lead, Total	6.7	mg/kg	2.9
Antimony, Total	0.41	mg/kg	0.22
Selenium, Total	0.73	mg/kg	0.37
Thallium, Total	0.14	u mg/kg	0.14
Vanadium, Total	14.1	mg/kg	0.37
Zinc, Total	53.0	mg/kg	0.75

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	86.1	%	0.10

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-034-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	80.5	%	0.10

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	86.0	%	0.10

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	82.8	%	0.10
Cyanide, Total	0.54	u mg/kg	0.54
Silver, Total	0.35	u mg/kg	0.35
Aluminum, Total	7490	mg/kg	13.9
Arsenic, Total	11.5	mg/kg	1.4
Barium, Total	28.9	mg/kg	0.69
Beryllium, Total	0.43	mg/kg	0.28
Calcium, Total	186	mg/kg	6.9
Cadmium, Total	0.14	u mg/kg	0.14
Cobalt, Total	6.0	mg/kg	0.35
Chromium, Total	8.5	mg/kg	0.69
Copper, Total	18.2	mg/kg	0.69
Iron, Total	15600	mg/kg	3.5
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	941	mg/kg	34.7
Magnesium, Total	1360	mg/kg	6.9
Manganese, Total	265	mg/kg	0.69
Sodium, Total	562	mg/kg	69.4
Nickel, Total	11.4	mg/kg	0.69
Lead, Total	5.3	mg/kg	2.8
Antimony, Total	0.35	mg/kg	0.21
Selenium, Total	0.61	mg/kg	0.35
Thallium, Total	0.14	mg/kg	0.14
Vanadium, Total	13.0	mg/kg	0.35
Zinc, Total	50.8	mg/kg	0.69

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	81.1	%	0.10
Cyanide, Total	0.59	u mg/kg	0.59
Silver, Total	0.38	u mg/kg	0.38
Aluminum, Total	7410	mg/kg	15.2
Arsenic, Total	13.5	mg/kg	1.5
Barium, Total	30.5	mg/kg	0.76
Beryllium, Total	0.49	mg/kg	0.30
Calcium, Total	173	mg/kg	7.6
Cadmium, Total	0.15	u mg/kg	0.15
Cobalt, Total	7.2	mg/kg	0.38
Chromium, Total	9.5	mg/kg	0.76
Copper, Total	22.2	mg/kg	0.76
Iron, Total	20100	mg/kg	3.8
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	888	mg/kg	38.1
Magnesium, Total	1680	mg/kg	7.6
Manganese, Total	248	mg/kg	0.76
Sodium, Total	724	mg/kg	76.1
Nickel, Total	14.0	mg/kg	0.76
Lead, Total	7.0	mg/kg	3.1
Antimony, Total	0.40	mg/kg	0.23
Selenium, Total	0.64	mg/kg	0.38
Thallium, Total	0.16	mg/kg	0.15
Vanadium, Total	12.9	mg/kg	0.38
Zinc, Total	59.2	mg/kg	0.76

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-030-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	87.3	%	0.10

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	83.2	%	0.10
Cyanide, Total	0.55	u mg/kg	0.55
Silver, Total	0.35	u mg/kg	0.35
Aluminum, Total	13000	mg/kg	14.1
Arsenic, Total	13.9	mg/kg	1.4
Barium, Total	58.1	mg/kg	0.71
Beryllium, Total	0.56	mg/kg	0.28
Calcium, Total	174	mg/kg	7.1
Cadmium, Total	0.14	u mg/kg	0.14
Cobalt, Total	7.1	mg/kg	0.35
Chromium, Total	14.5	mg/kg	0.71
Copper, Total	14.9	mg/kg	0.71
Iron, Total	18900	mg/kg	3.5
Mercury, Total	0.04	u mg/kg	0.04

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Potassium, Total	1130	mg/kg	35.4
Magnesium, Total	2200	mg/kg	7.1
Manganese, Total	238	mg/kg	0.71
Sodium, Total	883	mg/kg	70.7
Nickel, Total	14.7	mg/kg	0.71
Lead, Total	6.1	mg/kg	2.8
Antimony, Total	0.21	u mg/kg	0.21
Selenium, Total	0.51	mg/kg	0.35
Thallium, Total	0.14	u mg/kg	0.14
Vanadium, Total	18.5	mg/kg	0.35
Zinc, Total	45.1	mg/kg	0.71

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	10.0	u ug/L	10.0
Silver, Total	5.0	u ug/L	5.0
Aluminum, Total	200	u ug/L	200
Arsenic, Total	2.0	u ug/L	2.0
Barium, Total	10.0	u ug/L	10.0
Beryllium, Total	4.0	u ug/L	4.0
Calcium, Total	100	u ug/L	100
Cadmium, Total	2.0	u ug/L	2.0
Cobalt, Total	5.0	u ug/L	5.0
Chromium, Total	13.4	ug/L	10.0
Copper, Total	10.0	u ug/L	10.0
Iron, Total	125	ug/L	50.0
Mercury, Total	0.20	u ug/L	0.20
Potassium, Total	500	u ug/L	500

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 13th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Magnesium, Total	100	u ug/L	100
Manganese, Total	10.0	u ug/L	10.0
Sodium, Total	1000	u ug/L	1000
Nickel, Total	10.0	u ug/L	10.0
Lead, Total	2.0	u ug/L	2.0
Antimony, Total	3.0	u ug/L	3.0
Selenium, Total	5.0	u ug/L	5.0
Thallium, Total	2.0	u ug/L	2.0
Vanadium, Total	5.0	u ug/L	5.0
Zinc, Total	10.0	u ug/L	10.0

**SEVERN
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www.stl-inc.com

January 4, 2001

Mr. Stan Levenger
MKM, Engineers, Inc.
Ravenna Army Ammunition Plant
8451 St., Rt.5, Building 1038
Ravenna, OH 44266

RE: Ravenna AAP
Analytical Report & EDD
Lot 9A11G993

Dear Mr. Levenger:

The enclosed analytical report is for the project and lot number listed above. All analyses were completed at STL Sacramento. If you have any questions, please contact me at 708-534-5200.

Sincerely,

Severn Trent Laboratories


Eric A. Lang
Project Manager

sj

Enclosures

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

SOLID, 8330, Nitroglycerin only

STL Chicago

Client Sample ID: LL11SB-032-0001-SO

HPLC

Lot-Sample #....: G0K210253-001 Work Order #....: DP9RP1AD Matrix.....: SOLID
 Date Sampled....: 11/17/00 Date Received...: 11/21/00
 Prep Date.....: 11/28/00 Analysis Date...: 12/28/00
 Prep Batch #....: 0333422
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.60	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4-Dinitrofluorobenzene	115	(79 - 120)
3,4-Dinitrotoluene	100	(35 - 165)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-SO

HPLC

Lot-Sample #....: GOK210253-002 Work Order #....: DP9R61AD Matrix.....: SOLID
Date Sampled....: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0333422
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.60	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	106	(79 - 120)
3,4-Dinitrotoluene	96	(35 - 165)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-FD

HPLC

Lot-Sample #....: G0K210253-003 Work Order #....: DP9TA1AD Matrix.....: SOLID
Date Sampled....: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 12/28/00
Prep Batch #....: 0333422
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.61	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	113	(79 - 120)
3,4-Dinitrotoluene	100	(35 - 165)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-031-0001-SO

HPLC

Lot-Sample #...: G0K210253-004 Work Order #...: DP9TC1AD Matrix.....: SOLID
Date Sampled...: 11/16/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 12/28/00
Prep Batch #...: 0333422
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.61	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	107	(79 - 120)
3,4-Dinitrotoluene	97	(35 - 155)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-ER

HPLC

Lot-Sample #....: GOK210253-006 Work Order #....: DP9TL1AA Matrix.....: WATER
Date Sampled....: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/22/00 Analysis Date...: 12/28/00
Prep Batch #....: 0327354
Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.65	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	110	(59 - 128)
3,4-Dinitrotoluene	107	(35 - 165)

SOLID, UV/HPLC *per* SOP, Nitroguanidine

STL Chicago

Client Sample ID: LL11SB-032-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G0K210253-001 Work Order #....: DP9RP1AG Matrix.....: SOLID
Date Sampled...: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 11/30/00
Prep Batch #....: 0333459
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.30	mg/kg

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-SO

Trace Level Organic Compounds

Lot-Sample #...: GOK210253-002 Work Order #...: DP9R61AG Matrix.....: SOLID
Date Sampled...: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 11/30/00
Prep Batch #...: 0333459
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.30	mg/kg

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-FD

Trace Level Organic Compounds

Lot-Sample #...: GOK210253-003 Work Order #...: DP9TA1AG Matrix.....: SOLID
Date Sampled...: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 11/30/00
Prep Batch #...: 0333459
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.30	mg/kg

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-031-0001-SO

Trace Level Organic Compounds

Lot-Sample #...: G0K210253-004 Work Order #...: DP9TC1AG Matrix.....: SOLID
Date Sampled...: 11/16/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 11/30/00
Prep Batch #...: 0333459
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.30	mg/kg

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-ER

Trace Level Organic Compounds

Lot-Sample #....: GOK210253-006 Work Order #....: DP9TL1AD Matrix.....: WATER
Date Sampled....: 11/17/00 Date Received...: 11/21/00
Prep Date.....: 11/28/00 Analysis Date...: 11/30/00
Prep Batch #....: 0333468
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	20	ug/L

General Chemistry - Various Methods

STL Chicago

Client Sample ID: LL11SB-032-0001-SO

General Chemistry

Lot-Sample #....: GOK210253-001 Work Order #....: DP9RP Matrix.....: SOLID
 Date Sampled....: 11/17/00 Date Received...: 11/21/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	0.86 B	2.4	mg/kg	MCAWW 353.2	12/05-12/07/00	0340327

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-SO

General Chemistry

Lot-Sample #....: GOK210253-002

Work Order #....: DP9R6

Matrix.....: SOLID

Date Sampled....: 11/17/00

Date Received...: 11/21/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	0.87 B	2.4	mg/kg	MCAWW 353.2	12/05-12/07/00	0340327

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-FD

General Chemistry

Lot-Sample #....: GOK210253-003 Work Order #....: DP9TA Matrix.....: SOLID
Date Sampled....: 11/17/00 Date Received...: 11/21/00

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	1.1 B	2.4	mg/kg	MCAWW 353.2	12/05-12/07/00	0340327

Dilution Factor: 1

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-031-0001-SO

General Chemistry

Lot-Sample #....: GOK210253-004 Work Order #....: DP9TC Matrix.....: SOLID
 Date Sampled....: 11/16/00 Date Received...: 11/21/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.5 B	2.4	mg/kg	MCAWW 353.2	12/05-12/07/00	0340327

Dilution Factor: 1

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-035-0001-ER

General Chemistry

Lot-Sample #...: G0K210253-006 Work Order #...: DP9TL Matrix.....: WATER
 Date Sampled...: 11/17/00 Date Received...: 11/21/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	12/05-12/06/00	0340315

Dilution Factor: 1

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MKM-RAVENNA AAP
RFW# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-024-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-024-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-026-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	1	6	J
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-026-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-027-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-027-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	2	6	J
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-028-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-028-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-029-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-029-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

VOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A11G992

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2. TIC Results (Form IB)	
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b. Quantitation Reports and Mass Spectra of Target Compounds	
c. Quantitation Reports and Mass Spectra of TICs with Library Search	
C. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Standard Data	
1. Tabulated Results (Form I)	
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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001 RE
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	9	6	
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001 RE
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-034-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-034-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-035-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-030-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	6	U
Vinyl chloride	BRL	6	U
Bromomethane	BRL	6	U
Chloroethane	BRL	6	U
1,1-Dichloroethene	BRL	6	U
Acetone	BRL	6	U
Carbon Disulfide	BRL	6	U
Methylene Chloride	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
1,1-Dichloroethane	BRL	6	U
2-Butanone	BRL	6	U
Chloroform	BRL	6	J
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Benzene	BRL	6	U
1,2-Dichloroethane	BRL	6	U
Trichloroethene	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-030-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
Bromodichloromethane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
4-Methyl-2-pentanone	BRL	6	U
Toluene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Tetrachloroethene	BRL	6	U
2-Hexanone	BRL	6	U
Dibromochloromethane	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Xylene (total)	BRL	6	U
Styrene	BRL	6	U
Bromoform	BRL	6	U
1,1,2,2-Tetrachloroethane	BRL	6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-031-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	60	U
Vinyl chloride	BRL	60	U
Bromomethane	BRL	60	U
Chloroethane	BRL	60	U
1,1-Dichloroethene	BRL	60	U
Acetone	160	60	
Carbon Disulfide	BRL	60	U
Methylene Chloride	BRL	60	U
1,2-Dichloroethene (total)	BRL	60	U
1,1-Dichloroethane	BRL	60	U
2-Butanone	BRL	60	U
Chloroform	BRL	60	U
1,1,1-Trichloroethane	BRL	60	U
Carbon Tetrachloride	BRL	60	U
Benzene	BRL	60	U
1,2-Dichloroethane	BRL	60	U
Trichloroethene	BRL	60	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-031-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	60	U
Bromodichloromethane	BRL	60	U
cis-1,3-Dichloropropene	BRL	60	U
4-Methyl-2-pentanone	BRL	60	U
Toluene	BRL	60	U
trans-1,3-Dichloropropene	BRL	60	U
1,1,2-Trichloroethane	BRL	60	U
Tetrachloroethene	BRL	60	U
2-Hexanone	BRL	60	U
Dibromochloromethane	BRL	60	U
Chlorobenzene	BRL	60	U
Ethylbenzene	BRL	60	U
Xylene (total)	150	60	
Styrene	BRL	60	U
Bromoform	BRL	60	U
1,1,2,2-Tetrachloroethane	BRL	60	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	0.6	0.5	
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	0.4	0.5	J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	0.7	0.5	
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	0.3	0.5	J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

SEMIVOLATILES BY GC/MS
MKM - RAVENNA AAP
RFW# 9A11G988

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-024-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	390	U
bis(2-Chloroethyl)ether	BRL	390	U
2-Chlorophenol	BRL	390	U
1,3-Dichlorobenzene	BRL	390	U
1,4-Dichlorobenzene	BRL	390	U
1,2-Dichlorobenzene	BRL	390	U
2-Methylphenol	BRL	390	U
2,2'-oxybis(1-Chloropropane)	BRL	390	U
N-Nitroso-di-n-propylamine	BRL	390	U
4-Methylphenol	BRL	390	U
Hexachloroethane	BRL	390	U
Isophorone	BRL	390	U
2-Nitrophenol	BRL	390	U
2,4-Dimethylphenol	BRL	390	U
bis(2-Chloroethoxy)methane	BRL	390	U
2,4-Dichlorophenol	BRL	390	U
1,2,4-Trichlorobenzene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-024-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	390	U
4-Chloroaniline	BRL	390	U
Hexachlorobutadiene	BRL	390	U
4-Chloro-3-methylphenol	BRL	390	U
2-Methylnaphthalene	BRL	390	U
Hexachlorocyclopentadiene	BRL	390	U
2,4,6-Trichlorophenol	BRL	390	U
2,4,5-Trichlorophenol	BRL	970	U
2-Chloronaphthalene	BRL	390	U
2-Nitroaniline	BRL	970	U
Acenaphthylene	BRL	390	U
3-Nitroaniline	BRL	970	U
Acenaphthene	BRL	390	U
2,4-Dinitrophenol	BRL	970	U
Dibenzofuran	BRL	390	U
4-Nitrophenol	BRL	970	U
Fluorene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-024-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	390	U
Diethylphthalate	BRL	390	U
4-Chlorophenyl-phenylether	BRL	390	U
4-Nitroaniline	BRL	970	U
4,6-Dinitro-2-methylphenol	BRL	970	U
4-Bromophenyl-phenylether	BRL	390	U
Hexachlorobenzene	BRL	390	U
Pentachlorophenol	BRL	970	U
Phenanthrene	BRL	390	U
Anthracene	BRL	390	U
Di-n-butylphthalate	BRL	390	U
Fluoranthene	BRL	390	U
Pyrene	BRL	390	U
Butylbenzylphthalate	BRL	390	U
Benzo(a)anthracene	BRL	390	U
3,3'-Dichlorobenzidine	BRL	390	U
Chrysene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday December 4th. 2000

Attn: Mr. Stan Levenger

RE: LL11SB-024-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	390	U
Di-n-octylphthalate	BRL	390	U
Benzo(b)fluoranthene	BRL	390	U
Benzo(k)fluoranthene	BRL	390	U
Benzo(a)pyrene	BRL	390	U
Indeno(1.2.3-cd)pyrene	BRL	390	U
Dibenzo(a,h)anthracene	BRL	390	U
Benzo(g,h,i)perylene	BRL	390	U
Carbazole	BRL	390	U
N-Nitrosodiphenylamine (1)	BRL	390	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-024-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-013
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

	Retention	Estimated
Semivolatile Compound	Time	Concentration
UNKNOWN KETONE	4.734	40000 JAB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-026-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-026-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	960	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	960	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	960	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	960	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	960	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-026-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	960	U
4,6-Dinitro-2-methylphenol	BRL	960	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	960	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-026-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1,2,3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-026-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-014
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

	Retention	Estimated
Semivolatile Compound	Time	Concentration
UNKNOWN KETONE	4.774	38000 JAB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	950	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	950	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	950	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	950	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	950	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	950	U
4,6-Dinitro-2-methylphenol	BRL	950	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	950	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-027-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1.2.3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-015
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

	Retention	Estimated
Semivolatile Compound	Time	Concentration
UNKNOWN KETONE	4.730	41000 JAB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	390	U
bis(2-Chloroethyl)ether	BRL	390	U
2-Chlorophenol	BRL	390	U
1,3-Dichlorobenzene	BRL	390	U
1,4-Dichlorobenzene	BRL	390	U
1,2-Dichlorobenzene	BRL	390	U
2-Methylphenol	BRL	390	U
2,2'-oxybis(1-Chloropropane)	BRL	390	U
N-Nitroso-di-n-propylamine	BRL	390	U
4-Methylphenol	BRL	390	U
Hexachloroethane	BRL	390	U
Isophorone	BRL	390	U
2-Nitrophenol	BRL	390	U
2,4-Dimethylphenol	BRL	390	U
bis(2-Chloroethoxy)methane	BRL	390	U
2,4-Dichlorophenol	BRL	390	U
1,2,4-Trichlorobenzene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	390	U
4-Chloroaniline	BRL	390	U
Hexachlorobutadiene	BRL	390	U
4-Chloro-3-methylphenol	BRL	390	U
2-Methylnaphthalene	BRL	390	U
Hexachlorocyclopentadiene	BRL	390	U
2,4,6-Trichlorophenol	BRL	390	U
2,4,5-Trichlorophenol	BRL	960	U
2-Chloronaphthalene	BRL	390	U
2-Nitroaniline	BRL	960	U
Acenaphthylene	BRL	390	U
3-Nitroaniline	BRL	960	U
Acenaphthene	BRL	390	U
2,4-Dinitrophenol	BRL	960	U
Dibenzofuran	BRL	390	U
4-Nitrophenol	BRL	960	U
Fluorene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	390	U
Diethylphthalate	BRL	390	U
4-Chlorophenyl-phenylether	BRL	390	U
4-Nitroaniline	BRL	960	U
4,6-Dinitro-2-methylphenol	BRL	960	U
4-Bromophenyl-phenylether	BRL	390	U
Hexachlorobenzene	BRL	390	U
Pentachlorophenol	BRL	960	U
Phenanthrene	BRL	390	U
Anthracene	BRL	390	U
Di-n-butylphthalate	BRL	390	U
Fluoranthene	BRL	390	U
Pyrene	BRL	390	U
Butylbenzylphthalate	BRL	390	U
Benzo(a)anthracene	BRL	390	U
3,3'-Dichlorobenzidine	BRL	390	U
Chrysene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday December 4th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	390	U
Di-n-octylphthalate	BRL	390	U
Benzo(b)fluoranthene	BRL	390	U
Benzo(k)fluoranthene	BRL	390	U
Benzo(a)pyrene	BRL	390	U
Indeno(1.2.3-cd)pyrene	BRL	390	U
Dibenzo(a,h)anthracene	BRL	390	U
Benzo(g,h,i)perylene	BRL	390	U
Carbazole	BRL	390	U
N-Nitrosodiphenylamine (1)	BRL	390	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-027-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G988-016
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.880	48000 JAB
UNKNOWN KETONE	4.371	1400 JB
UNKNOWN KETONE	4.841	2500 JB
UNKNOWN ALKANE	17.289	200 J
UNKNOWN ALKANE	18.162	160 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-028-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	390	U
bis(2-Chloroethyl)ether	BRL	390	U
2-Chlorophenol	BRL	390	U
1,3-Dichlorobenzene	BRL	390	U
1,4-Dichlorobenzene	BRL	390	U
1,2-Dichlorobenzene	BRL	390	U
2-Methylphenol	BRL	390	U
2,2'-oxybis(1-Chloropropane)	BRL	390	U
N-Nitroso-di-n-propylamine	BRL	390	U
4-Methylphenol	BRL	390	U
Hexachloroethane	BRL	390	U
Isophorone	BRL	390	U
2-Nitrophenol	BRL	390	U
2,4-Dimethylphenol	BRL	390	U
bis(2-Chloroethoxy)methane	BRL	390	U
2,4-Dichlorophenol	BRL	390	U
1,2,4-Trichlorobenzene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-028-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	390	U
4-Chloroaniline	BRL	390	U
Hexachlorobutadiene	BRL	390	U
4-Chloro-3-methylphenol	BRL	390	U
2-Methylnaphthalene	BRL	390	U
Hexachlorocyclopentadiene	BRL	390	U
2,4,6-Trichlorophenol	BRL	390	U
2,4,5-Trichlorophenol	BRL	970	U
2-Chloronaphthalene	BRL	390	U
2-Nitroaniline	BRL	970	U
Acenaphthylene	BRL	390	U
3-Nitroaniline	BRL	970	U
Acenaphthene	BRL	390	U
2,4-Dinitrophenol	BRL	970	U
Dibenzofuran	BRL	390	U
4-Nitrophenol	BRL	970	U
Fluorene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-028-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	390	U
Diethylphthalate	BRL	390	U
4-Chlorophenyl-phenylether	BRL	390	U
4-Nitroaniline	BRL	970	U
4,6-Dinitro-2-methylphenol	BRL	970	U
4-Bromophenyl-phenylether	BRL	390	U
Hexachlorobenzene	BRL	390	U
Pentachlorophenol	BRL	970	U
Phenanthrene	BRL	390	U
Anthracene	BRL	390	U
Di-n-butylphthalate	BRL	390	U
Fluoranthene	BRL	390	U
Pyrene	BRL	390	U
Butylbenzylphthalate	BRL	390	U
Benzo(a)anthracene	BRL	390	U
3,3'-Dichlorobenzidine	BRL	390	U
Chrysene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th. 2000

RE: LL11SB-028-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	390	U
Di-n-octylphthalate	BRL	390	U
Benzo(b)fluoranthene	BRL	390	U
Benzo(k)fluoranthene	BRL	390	U
Benzo(a)pyrene	BRL	390	U
Indeno(1,2,3-cd)pyrene	BRL	390	U
Dibenzo(a,h)anthracene	BRL	390	U
Benzo(g,h,i)perylene	BRL	390	U
Carbazole	BRL	390	U
N-Nitrosodiphenylamine (1)	BRL	390	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-028-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-017
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

1 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	4.730	36000 JAB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Monday December 4th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-029-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-029-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	950	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	950	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	950	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	950	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	950	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-029-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	950	U
4,6-Dinitro-2-methylphenol	BRL	950	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	950	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-029-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1,2,3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Monday December 4th, 2000

RE: LL11SB-029-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G988-018
Sample Date: 11/16/00
Date Received: 11/17/00
Units: ug/Kg

Tentatively Identified Compounds

7 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.872	47000 JAB
UNKNOWN KETONE	4.374	1700 JB
UNKNOWN KETONE	4.833	2600 JB
Unknown	5.324	160 JB
Unknown	7.814	260 J
UNKNOWN ALKANE	17.292	180 J
UNKNOWN ALKANE	17.717	170 J

SEMIVOLATILES BY GC/MS
MKM RAVENNA AAP
RFW# 9A11G992

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	390	U
bis(2-Chloroethyl)ether	BRL	390	U
2-Chlorophenol	BRL	390	U
1,3-Dichlorobenzene	BRL	390	U
1,4-Dichlorobenzene	BRL	390	U
1,2-Dichlorobenzene	BRL	390	U
2-Methylphenol	BRL	390	U
2,2'-oxybis(1-Chloropropane)	BRL	390	U
N-Nitroso-di-n-propylamine	BRL	390	U
4-Methylphenol	BRL	390	U
Hexachloroethane	BRL	390	U
Isophorone	BRL	390	U
2-Nitrophenol	BRL	390	U
2,4-Dimethylphenol	BRL	390	U
bis(2-Chloroethoxy)methane	BRL	390	U
2,4-Dichlorophenol	BRL	390	U
1,2,4-Trichlorobenzene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	390	U
4-Chloroaniline	BRL	390	U
Hexachlorobutadiene	BRL	390	U
4-Chloro-3-methylphenol	BRL	390	U
2-Methylnaphthalene	BRL	390	U
Hexachlorocyclopentadiene	BRL	390	U
2,4,6-Trichlorophenol	BRL	390	U
2,4,5-Trichlorophenol	BRL	970	U
2-Chloronaphthalene	BRL	390	U
2-Nitroaniline	BRL	970	U
Acenaphthylene	BRL	390	U
3-Nitroaniline	BRL	970	U
Acenaphthene	BRL	390	U
2,4-Dinitrophenol	BRL	970	U
Dibenzofuran	BRL	390	U
4-Nitrophenol	BRL	970	U
Fluorene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	390	U
Diethylphthalate	BRL	390	U
4-Chlorophenyl-phenylether	BRL	390	U
4-Nitroaniline	BRL	970	U
4,6-Dinitro-2-methylphenol	BRL	970	U
4-Bromophenyl-phenylether	BRL	390	U
Hexachlorobenzene	BRL	390	U
Pentachlorophenol	BRL	970	U
Phenanthrene	BRL	390	U
Anthracene	BRL	390	U
Di-n-butylphthalate	BRL	390	U
Fluoranthene	BRL	390	U
Pyrene	BRL	390	U
Butylbenzylphthalate	BRL	390	U
Benzo(a)anthracene	BRL	390	U
3,3'-Dichlorobenzidine	BRL	390	U
Chrysene	BRL	390	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	390	U
Di-n-octylphthalate	BRL	390	U
Benzo(b)fluoranthene	BRL	390	U
Benzo(k)fluoranthene	BRL	390	U
Benzo(a)pyrene	BRL	390	U
Indeno(1,2,3-cd)pyrene	BRL	390	U
Dibenzo(a,h)anthracene	BRL	390	U
Benzo(g,h,i)perylene	BRL	390	U
Carbazole	BRL	390	U
N-Nitrosodiphenylamine (1)	BRL	390	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

6 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.926	44000 JAB
UNKNOWN KETONE	4.297	640 JB
UNKNOWN KETONE	4.800	2500 JB
Unknown	7.704	200 JB
UNKNOWN ALKANE	17.182	170 J
Unknown	17.564	2700 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	950	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	950	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	950	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	950	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	950	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	950	U
4,6-Dinitro-2-methylphenol	BRL	950	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	950	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	410	U
Di-n-octylphthalate	BRL	410	U
Benzo(b)fluoranthene	BRL	410	U
Benzo(k)fluoranthene	BRL	410	U
Benzo(a)pyrene	BRL	410	U
Indeno(1,2,3-cd)pyrene	BRL	410	U
Dibenzo(a,h)anthracene	BRL	410	U
Benzo(g,h,i)perylene	BRL	410	U
Carbazole	BRL	410	U
N-Nitrosodiphenylamine (1)	BRL	410	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	410	U
Diethylphthalate	BRL	410	U
4-Chlorophenyl-phenylether	BRL	410	U
4-Nitroaniline	BRL	1000	U
4,6-Dinitro-2-methylphenol	BRL	1000	U
4-Bromophenyl-phenylether	BRL	410	U
Hexachlorobenzene	BRL	410	U
Pentachlorophenol	BRL	1000	U
Phenanthrene	BRL	410	U
Anthracene	BRL	410	U
Di-n-butylphthalate	BRL	410	U
Fluoranthene	BRL	410	U
Pyrene	BRL	410	U
Butylbenzylphthalate	BRL	410	U
Benzo(a)anthracene	BRL	410	U
3,3'-Dichlorobenzidine	BRL	410	U
Chrysene	BRL	410	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1,2,3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-002
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

8 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.924	39000 JAB
UNKNOWN KETONE	4.295	720 JB
UNKNOWN KETONE	4.797	1900 JB
Unknown	7.702	200 JB
UNKNOWN ALKANE	17.190	150 J
UNKNOWN PHTHALATE	17.376	220 J
UNKNOWN AMIDE	17.562	810 J
UNKNOWN ALKANE	17.616	210 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-034-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	410	U
bis(2-Chloroethyl)ether	BRL	410	U
2-Chlorophenol	BRL	410	U
1,3-Dichlorobenzene	BRL	410	U
1,4-Dichlorobenzene	BRL	410	U
1,2-Dichlorobenzene	BRL	410	U
2-Methylphenol	BRL	410	U
2,2'-oxybis(1-Chloropropane)	BRL	410	U
N-Nitroso-di-n-propylamine	BRL	410	U
4-Methylphenol	BRL	410	U
Hexachloroethane	BRL	410	U
Isophorone	BRL	410	U
2-Nitrophenol	BRL	410	U
2,4-Dimethylphenol	BRL	410	U
bis(2-Chloroethoxy)methane	BRL	410	U
2,4-Dichlorophenol	BRL	410	U
1,2,4-Trichlorobenzene	BRL	410	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-034-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	410	U
4-Chloroaniline	BRL	410	U
Hexachlorobutadiene	BRL	410	U
4-Chloro-3-methylphenol	BRL	410	U
2-Methylnaphthalene	BRL	410	U
Hexachlorocyclopentadiene	BRL	410	U
2,4,6-Trichlorophenol	BRL	410	U
2,4,5-Trichlorophenol	BRL	1000	U
2-Chloronaphthalene	BRL	410	U
2-Nitroaniline	BRL	1000	U
Acenaphthylene	BRL	410	U
3-Nitroaniline	BRL	1000	U
Acenaphthene	BRL	410	U
2,4-Dinitrophenol	BRL	1000	U
Dibenzofuran	BRL	410	U
4-Nitrophenol	BRL	1000	U
Fluorene	BRL	410	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-034-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	410	U
Diethylphthalate	BRL	410	U
4-Chlorophenyl-phenylether	BRL	410	U
4-Nitroaniline	BRL	1000	U
4,6-Dinitro-2-methylphenol	BRL	1000	U
4-Bromophenyl-phenylether	BRL	410	U
Hexachlorobenzene	BRL	410	U
Pentachlorophenol	BRL	1000	U
Phenanthrene	BRL	410	U
Anthracene	BRL	410	U
Di-n-butylphthalate	BRL	410	U
Fluoranthene	BRL	410	U
Pyrene	BRL	410	U
Butylbenzylphthalate	BRL	410	U
Benzo(a)anthracene	BRL	410	U
3,3'-Dichlorobenzidine	BRL	410	U
Chrysene	BRL	410	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-034-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	410	U
Di-n-octylphthalate	BRL	410	U
Benzo(b)fluoranthene	BRL	410	U
Benzo(k)fluoranthene	BRL	410	U
Benzo(a)pyrene	BRL	410	U
Indeno(1,2,3-cd)pyrene	BRL	410	U
Dibenzo(a,h)anthracene	BRL	410	U
Benzo(g,h,i)perylene	BRL	410	U
Carbazole	BRL	410	U
N-Nitrosodiphenylamine (1)	BRL	410	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-034-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-003
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	4.009	57000 JAB
UNKNOWN KETONE	4.293	1100 JB
UNKNOWN KETONE	4.817	3400 JB
UNKNOWN AMIDE	17.560	520 J
UNKNOWN ALKANE	17.614	190 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-025-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	960	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	960	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	960	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	960	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	960	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	960	U
4,6-Dinitro-2-methylphenol	BRL	960	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	960	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
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Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th. 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1,2,3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-025-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-004
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.890	42000 JAB
UNKNOWN KETONE	4.294	1200 JB
UNKNOWN KETONE	4.786	2200 JB
Unknown	7.712	210 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	400	U
bis(2-Chloroethyl)ether	BRL	400	U
2-Chlorophenol	BRL	400	U
1,3-Dichlorobenzene	BRL	400	U
1,4-Dichlorobenzene	BRL	400	U
1,2-Dichlorobenzene	BRL	400	U
2-Methylphenol	BRL	400	U
2,2'-oxybis(1-Chloropropane)	BRL	400	U
N-Nitroso-di-n-propylamine	BRL	400	U
4-Methylphenol	BRL	400	U
Hexachloroethane	BRL	400	U
Isophorone	BRL	400	U
2-Nitrophenol	BRL	400	U
2,4-Dimethylphenol	BRL	400	U
bis(2-Chloroethoxy)methane	BRL	400	U
2,4-Dichlorophenol	BRL	400	U
1,2,4-Trichlorobenzene	BRL	400	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	400	U
4-Chloroaniline	BRL	400	U
Hexachlorobutadiene	BRL	400	U
4-Chloro-3-methylphenol	BRL	400	U
2-Methylnaphthalene	BRL	400	U
Hexachlorocyclopentadiene	BRL	400	U
2,4,6-Trichlorophenol	BRL	400	U
2,4,5-Trichlorophenol	BRL	1000	U
2-Chloronaphthalene	BRL	400	U
2-Nitroaniline	BRL	1000	U
Acenaphthylene	BRL	400	U
3-Nitroaniline	BRL	1000	U
Acenaphthene	BRL	400	U
2,4-Dinitrophenol	BRL	1000	U
Dibenzofuran	BRL	400	U
4-Nitrophenol	BRL	1000	U
Fluorene	BRL	400	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th. 2000

Attn: Mr. Stan Levenger

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	400	U
Diethylphthalate	BRL	400	U
4-Chlorophenyl-phenylether	BRL	400	U
4-Nitroaniline	BRL	1000	U
4,6-Dinitro-2-methylphenol	BRL	1000	U
4-Bromophenyl-phenylether	BRL	400	U
Hexachlorobenzene	BRL	400	U
Pentachlorophenol	BRL	1000	U
Phenanthrene	BRL	400	U
Anthracene	BRL	400	U
Di-n-butylphthalate	BRL	400	U
Fluoranthene	BRL	400	U
Pyrene	BRL	400	U
Butylbenzylphthalate	BRL	400	U
Benzo(a)anthracene	BRL	400	U
3,3'-Dichlorobenzidine	BRL	400	U
Chrysene	BRL	400	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	400	U
Di-n-octylphthalate	BRL	400	U
Benzo(b)fluoranthene	BRL	400	U
Benzo(k)fluoranthene	BRL	400	U
Benzo(a)pyrene	BRL	400	U
Indeno(1,2,3-cd)pyrene	BRL	400	U
Dibenzo(a,h)anthracene	BRL	400	U
Benzo(g,h,i)perylene	BRL	400	U
Carbazole	BRL	400	U
N-Nitrosodiphenylamine (1)	BRL	400	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.901	39000 JAB
UNKNOWN KETONE	4.294	960 JB
UNKNOWN KETONE	4.796	2300 JB
Unknown	7.701	220 JB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	410	U
bis(2-Chloroethyl)ether	BRL	410	U
2-Chlorophenol	BRL	410	U
1,3-Dichlorobenzene	BRL	410	U
1,4-Dichlorobenzene	BRL	410	U
1,2-Dichlorobenzene	BRL	410	U
2-Methylphenol	BRL	410	U
2,2'-oxybis(1-Chloropropane)	BRL	410	U
N-Nitroso-di-n-propylamine	BRL	410	U
4-Methylphenol	BRL	410	U
Hexachloroethane	BRL	410	U
Isophorone	BRL	410	U
2-Nitrophenol	BRL	410	U
2,4-Dimethylphenol	BRL	410	U
bis(2-Chloroethoxy)methane	BRL	410	U
2,4-Dichlorophenol	BRL	410	U
1,2,4-Trichlorobenzene	BRL	410	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.933	47000 JAB
UNKNOWN KETONE	4.294	1300 JB
UNKNOWN KETONE	4.796	2600 JB
Unknown	7.701	220 JB
UNKNOWN AMIDE	17.561	180 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-030-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	380	U
bis(2-Chloroethyl)ether	BRL	380	U
2-Chlorophenol	BRL	380	U
1,3-Dichlorobenzene	BRL	380	U
1,4-Dichlorobenzene	BRL	380	U
1,2-Dichlorobenzene	BRL	380	U
2-Methylphenol	BRL	380	U
2,2'-oxybis(1-Chloropropane)	BRL	380	U
N-Nitroso-di-n-propylamine	BRL	380	U
4-Methylphenol	BRL	380	U
Hexachloroethane	BRL	380	U
Isophorone	BRL	380	U
2-Nitrophenol	BRL	380	U
2,4-Dimethylphenol	BRL	380	U
bis(2-Chloroethoxy)methane	BRL	380	U
2,4-Dichlorophenol	BRL	380	U
1,2,4-Trichlorobenzene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-030-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	380	U
4-Chloroaniline	BRL	380	U
Hexachlorobutadiene	BRL	380	U
4-Chloro-3-methylphenol	BRL	380	U
2-Methylnaphthalene	BRL	380	U
Hexachlorocyclopentadiene	BRL	380	U
2,4,6-Trichlorophenol	BRL	380	U
2,4,5-Trichlorophenol	BRL	950	U
2-Chloronaphthalene	BRL	380	U
2-Nitroaniline	BRL	950	U
Acenaphthylene	BRL	380	U
3-Nitroaniline	BRL	950	U
Acenaphthene	BRL	380	U
2,4-Dinitrophenol	BRL	950	U
Dibenzofuran	BRL	380	U
4-Nitrophenol	BRL	950	U
Fluorene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-030-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	380	U
Diethylphthalate	BRL	380	U
4-Chlorophenyl-phenylether	BRL	380	U
4-Nitroaniline	BRL	950	U
4,6-Dinitro-2-methylphenol	BRL	950	U
4-Bromophenyl-phenylether	BRL	380	U
Hexachlorobenzene	BRL	380	U
Pentachlorophenol	BRL	950	U
Phenanthrene	BRL	380	U
Anthracene	BRL	380	U
Di-n-butylphthalate	BRL	380	U
Fluoranthene	BRL	380	U
Pyrene	BRL	380	U
Butylbenzylphthalate	BRL	380	U
Benzo(a)anthracene	BRL	380	U
3,3'-Dichlorobenzidine	BRL	380	U
Chrysene	BRL	380	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-030-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	380	U
Di-n-octylphthalate	BRL	380	U
Benzo(b)fluoranthene	BRL	380	U
Benzo(k)fluoranthene	BRL	380	U
Benzo(a)pyrene	BRL	380	U
Indeno(1,2,3-cd)pyrene	BRL	380	U
Dibenzo(a,h)anthracene	BRL	380	U
Benzo(g,h,i)perylene	BRL	380	U
Carbazole	BRL	380	U
N-Nitrosodiphenylamine (1)	BRL	380	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-030-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-007
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.934	42000 JAB
UNKNOWN KETONE	4.294	860 JB
UNKNOWN KETONE	4.807	2600 JB
Unknown	7.701	180 JB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	400	U
bis(2-Chloroethyl)ether	BRL	400	U
2-Chlorophenol	BRL	400	U
1,3-Dichlorobenzene	BRL	400	U
1,4-Dichlorobenzene	BRL	400	U
1,2-Dichlorobenzene	BRL	400	U
2-Methylphenol	BRL	400	U
2,2'-oxybis(1-Chloropropane)	BRL	400	U
N-Nitroso-di-n-propylamine	BRL	400	U
4-Methylphenol	BRL	400	U
Hexachloroethane	BRL	400	U
Isophorone	BRL	400	U
2-Nitrophenol	BRL	400	U
2,4-Dimethylphenol	BRL	400	U
bis(2-Chloroethoxy)methane	BRL	400	U
2,4-Dichlorophenol	BRL	400	U
1,2,4-Trichlorobenzene	BRL	400	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	400	U
Diethylphthalate	BRL	400	U
4-Chlorophenyl-phenylether	BRL	400	U
4-Nitroaniline	BRL	990	U
4,6-Dinitro-2-methylphenol	BRL	990	U
4-Bromophenyl-phenylether	BRL	400	U
Hexachlorobenzene	BRL	400	U
Pentachlorophenol	BRL	990	U
Phenanthrene	BRL	400	U
Anthracene	BRL	400	U
Di-n-butylphthalate	BRL	400	U
Fluoranthene	BRL	400	U
Pyrene	BRL	400	U
Butylbenzylphthalate	BRL	400	U
Benzo(a)anthracene	BRL	400	U
3,3'-Dichlorobenzidine	BRL	400	U
Chrysene	BRL	400	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	400	U
Di-n-octylphthalate	BRL	400	U
Benzo(b)fluoranthene	BRL	400	U
Benzo(k)fluoranthene	BRL	400	U
Benzo(a)pyrene	BRL	400	U
Indeno(1,2,3-cd)pyrene	BRL	400	U
Dibenzo(a,h)anthracene	BRL	400	U
Benzo(g,h,i)perylene	BRL	400	U
Carbazole	BRL	400	U
N-Nitrosodiphenylamine (1)	BRL	400	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

Tentatively Identified Compounds

3 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN KETONE	3.926	44000 JAB
UNKNOWN KETONE	4.287	810 JB
UNKNOWN KETONE	4.800	2500 JB

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	24	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	24	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	24	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	24	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	24	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	24	U
4,6-Dinitro-2-methylphenol	BRL	24	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	24	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1,2,3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-036-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-011
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

Tentatively Identified Compounds

6 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
MEHTYL PYRROLIDINONE ISOMER	6.370	4 J
UNKNOWN SILOXANE	16.175	4 J
UNKNOWN PHTHALATE	16.361	6 J
UNKNOWN PHTHALATE	16.415	5 J
UNKNOWN PHTHALATE	16.459	4 J
UNKNOWN PHTHALATE	16.819	6 J

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Phenol	BRL	10	U
bis(2-Chloroethyl)ether	BRL	10	U
2-Chlorophenol	BRL	10	U
1,3-Dichlorobenzene	BRL	10	U
1,4-Dichlorobenzene	BRL	10	U
1,2-Dichlorobenzene	BRL	10	U
2-Methylphenol	BRL	10	U
2,2'-oxybis(1-Chloropropane)	BRL	10	U
N-Nitroso-di-n-propylamine	BRL	10	U
4-Methylphenol	BRL	10	U
Hexachloroethane	BRL	10	U
Isophorone	BRL	10	U
2-Nitrophenol	BRL	10	U
2,4-Dimethylphenol	BRL	10	U
bis(2-Chloroethoxy)methane	BRL	10	U
2,4-Dichlorophenol	BRL	10	U
1,2,4-Trichlorobenzene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatiles Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	10	U
4-Chloroaniline	BRL	10	U
Hexachlorobutadiene	BRL	10	U
4-Chloro-3-methylphenol	BRL	10	U
2-Methylnaphthalene	BRL	10	U
Hexachlorocyclopentadiene	BRL	10	U
2,4,6-Trichlorophenol	BRL	10	U
2,4,5-Trichlorophenol	BRL	24	U
2-Chloronaphthalene	BRL	10	U
2-Nitroaniline	BRL	24	U
Acenaphthylene	BRL	10	U
3-Nitroaniline	BRL	24	U
Acenaphthene	BRL	10	U
2,4-Dinitrophenol	BRL	24	U
Dibenzofuran	BRL	10	U
4-Nitrophenol	BRL	24	U
Fluorene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Dimethylphthalate	BRL	10	U
Diethylphthalate	BRL	10	U
4-Chlorophenyl-phenylether	BRL	10	U
4-Nitroaniline	BRL	24	U
4,6-Dinitro-2-methylphenol	BRL	24	U
4-Bromophenyl-phenylether	BRL	10	U
Hexachlorobenzene	BRL	10	U
Pentachlorophenol	BRL	24	U
Phenanthrene	BRL	10	U
Anthracene	BRL	10	U
Di-n-butylphthalate	BRL	10	U
Fluoranthene	BRL	10	U
Pyrene	BRL	10	U
Butylbenzylphthalate	BRL	10	U
Benzo(a)anthracene	BRL	10	U
3,3'-Dichlorobenzidine	BRL	10	U
Chrysene	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Wednesday December 6th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
bis(2-Ethylhexyl)phthalate	BRL	10	U
Di-n-octylphthalate	BRL	10	U
Benzo(b)fluoranthene	BRL	10	U
Benzo(k)fluoranthene	BRL	10	U
Benzo(a)pyrene	BRL	10	U
Indeno(1.2.3-cd)pyrene	BRL	10	U
Dibenzo(a,h)anthracene	BRL	10	U
Benzo(g,h,i)perylene	BRL	10	U
Carbazole	BRL	10	U
N-Nitrosodiphenylamine (1)	BRL	10	U

(1) - Cannot be separated from Diphenylamine.

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/L

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
UNKNOWN SILOXANE	17.473	8 J
UNKNOWN PHTHALATE	17.637	25 J
UNKNOWN PHTHALATE	17.790	16 J
UNKNOWN PHTHALATE	18.369	4 J

PEST / PCB DATA PACKAGE
MKM - RAVENNA AAP
JOB# 9A11G992

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-032-0001-SO
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.96	U
beta-BHC	BRL	0.96	U
delta-BHC	BRL	0.96	U
gamma-BHC (Lindane)	BRL	0.96	U
Heptachlor	BRL	0.96	U
Aldrin	BRL	0.96	U
Heptachlor epoxide	BRL	0.96	U
Endosulfan I	BRL	0.96	U
Dieldrin	BRL	1.9	U
4,4'-DDE	BRL	1.9	U
Endrin	BRL	1.9	U
Endosulfan II	BRL	1.9	U
4,4'-DDD	BRL	1.9	U
Endosulfan sulfate	BRL	1.9	U
4,4'-DDT	BRL	1.9	U
Methoxychlor	BRL	9.6	U
Endrin ketone	BRL	1.9	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday December 5th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	1.9	U
alpha-Chlordane	BRL	0.96	U
gamma-Chlordane	BRL	0.96	U
Toxaphene	BRL	19	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	1.0	U
beta-BHC	BRL	1.0	U
delta-BHC	BRL	1.0	U
gamma-BHC (Lindane)	BRL	1.0	U
Heptachlor	BRL	1.0	U
Aldrin	BRL	1.0	U
Heptachlor epoxide	BRL	1.0	U
Endosulfan I	BRL	1.0	U
Dieldrin	BRL	2.0	U
4,4'-DDE	BRL	2.0	U
Endrin	BRL	2.0	U
Endosulfan II	BRL	2.0	U
4,4'-DDD	BRL	2.0	U
Endosulfan sulfate	BRL	2.0	U
4,4'-DDT	BRL	2.0	U
Methoxychlor	BRL	10	U
Endrin ketone	BRL	2.0	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	2.0	U
alpha-Chlordane	BRL	1.0	U
gamma-Chlordane	BRL	1.0	U
Toxaphene	BRL	20	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	1.0	U
beta-BHC	BRL	1.0	U
delta-BHC	BRL	1.0	U
gamma-BHC (Lindane)	BRL	1.0	U
Heptachlor	BRL	1.0	U
Aldrin	BRL	1.0	U
Heptachlor epoxide	BRL	1.0	U
Endosulfan I	BRL	1.0	U
Dieldrin	BRL	2.0	U
4,4'-DDE	BRL	2.0	U
Endrin	BRL	2.0	U
Endosulfan II	BRL	2.0	U
4,4'-DDD	BRL	2.0	U
Endosulfan sulfate	BRL	2.0	U
4,4'-DDT	BRL	2.0	U
Methoxychlor	BRL	10	U
Endrin ketone	BRL	2.0	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	2.0	U
alpha-Chlordane	BRL	1.0	U
gamma-Chlordane	BRL	1.0	U
Toxaphene	BRL	20	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	9.8	U
beta-BHC	BRL	9.8	U
delta-BHC	BRL	9.8	U
gamma-BHC (Lindane)	BRL	9.8	U
Heptachlor	BRL	9.8	U
Aldrin	BRL	9.8	U
Heptachlor epoxide	BRL	9.8	U
Endosulfan I	BRL	9.8	U
Dieldrin	BRL	20	U
4,4'-DDE	BRL	20	U
Endrin	BRL	20	U
Endosulfan II	BRL	20	U
4,4'-DDD	BRL	20	U
Endosulfan sulfate	BRL	20	U
4,4'-DDT	BRL	20	U
Methoxychlor	BRL	98	U
Endrin ketone	BRL	20	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Tuesday December 5th, 2000

Attn: Mr. Stan Levenger

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	20	U
alpha-Chlordane	BRL	9.8	U
gamma-Chlordane	BRL	9.8	U
Toxaphene	BRL	200	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th. 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
alpha-BHC	BRL	0.024	U
beta-BHC	BRL	0.024	U
delta-BHC	BRL	0.024	U
gamma-BHC (Lindane)	BRL	0.024	U
Heptachlor	BRL	0.024	U
Aldrin	BRL	0.024	U
Heptachlor epoxide	BRL	0.024	U
Endosulfan I	BRL	0.024	U
Dieldrin	BRL	0.047	U
4,4'-DDE	BRL	0.047	U
Endrin	BRL	0.047	U
Endosulfan II	BRL	0.047	U
4,4'-DDD	BRL	0.047	U
Endosulfan sulfate	BRL	0.047	U
4,4'-DDT	BRL	0.047	U
Methoxychlor	BRL	0.24	U
Endrin ketone	BRL	0.047	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Tuesday December 5th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/L

PESTICIDES/PCB BY GC, SPECIAL LIST

Compound	Result	Reporting Limit	Flag
Endrin aldehyde	BRL	0.047	U
alpha-Chlordane	BRL	0.024	U
gamma-Chlordane	BRL	0.024	U
Toxaphene	0.44	0.47	J

PCB DATA PACKAGE
MKM - RAVENNA AAP
JOB# 9A11G992

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	9.6	U
Aroclor-1221	BRL	9.6	U
Aroclor-1232	BRL	9.6	U
Aroclor-1242	BRL	9.6	U
Aroclor-1248	BRL	9.6	U
Aroclor-1254	BRL	9.6	U
Aroclor-1260	BRL	9.6	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	10	U
Aroclor-1221	BRL	10	U
Aroclor-1232	BRL	10	U
Aroclor-1242	BRL	10	U
Aroclor-1248	BRL	10	U
Aroclor-1254	BRL	10	U
Aroclor-1260	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	10	U
Aroclor-1221	BRL	10	U
Aroclor-1232	BRL	10	U
Aroclor-1242	BRL	10	U
Aroclor-1248	BRL	10	U
Aroclor-1254	BRL	10	U
Aroclor-1260	BRL	10	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/KG

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	9.8	U
Aroclor-1221	BRL	9.8	U
Aroclor-1232	BRL	9.8	U
Aroclor-1242	BRL	9.8	U
Aroclor-1248	BRL	9.8	U
Aroclor-1254	BRL	9.8	U
Aroclor-1260	BRL	9.8	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00
Units: UG/L

PCBs by GC

Compound	Result	Reporting Limit	Flag
Aroclor-1016	BRL	0.24	U
Aroclor-1221	BRL	0.24	U
Aroclor-1232	BRL	0.24	U
Aroclor-1242	BRL	0.24	U
Aroclor-1248	BRL	0.24	U
Aroclor-1254	BRL	0.24	U
Aroclor-1260	BRL	0.24	U

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Wednesday December 6th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00
Units: ug/Kg

SEMIVOLATILES BY GC/MS, HSL LIST

Semivolatile Compound	Result	Reporting Limit	Flag
Naphthalene	BRL	410	U
4-Chloroaniline	BRL	410	U
Hexachlorobutadiene	BRL	410	U
4-Chloro-3-methylphenol	BRL	410	U
2-Methylnaphthalene	BRL	410	U
Hexachlorocyclopentadiene	BRL	410	U
2,4,6-Trichlorophenol	BRL	410	U
2,4,5-Trichlorophenol	BRL	1000	U
2-Chloronaphthalene	BRL	410	U
2-Nitroaniline	BRL	1000	U
Acenaphthylene	BRL	410	U
3-Nitroaniline	BRL	1000	U
Acenaphthene	BRL	410	U
2,4-Dinitrophenol	BRL	1000	U
Dibenzofuran	BRL	410	U
4-Nitrophenol	BRL	1000	U
Fluorene	BRL	410	U

WET CHEMISTRY DATA PACKAGE
MKM-RAVENNA AAP
RFW# 9A11G992

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To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-032-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-001
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.1	u mg/kg	1.1
Sulfide	38.5	mg/kg	28.7
Sulfate	55.1	u mg/kg	55.1

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-005
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.1	u mg/kg	1.1
Sulfide	29.9	u mg/kg	29.9
Sulfate	54.5	u mg/kg	54.5

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-FD
Project # 00000-000-000-0000
Lab ID: 9A11G992-006
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.2	u mg/kg	1.2
Sulfide	28.3	u mg/kg	28.3
Sulfate	61.6	u mg/kg	61.6

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-031-0001-S0
Project # 00000-000-000-0000
Lab ID: 9A11G992-008
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	1.2	u mg/kg	1.2
Sulfide	28.6	u mg/kg	28.6
Sulfate	53.0	u mg/kg	53.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Attn: Mr. Stan Levenger

Date: Thursday December 7th, 2000

RE: LL11SB-035-0001-ER
Project # 00000-000-000-0000
Lab ID: 9A11G992-012
Sample Date: 11/17/00
Date Received: 11/18/00

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Nitrate, as N	0.10	u mg/L	0.10
Sulfide	1.0	u mg/L	1.0
Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A11G992

Attn: Mr. Stan Levenger

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	80GNN099-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF115-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA075-MB1	Sulfate	5.0	u mg/L	5.0
Blank 1	80GNN098-MB1	Nitrate Nitrite	0.10	u mg/L	0.10
Blank 1	80GSF111-MB1	Sulfide	1.0	u mg/L	1.0
Blank 1	80GSA074-MB1	Sulfate	5.0	u mg/L	5.0

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday December 8th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A11G992

Attn: Mr. Stan Levenger

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-005	LL11SB-035-0001	Nitrate, as N	13.1	1.1	u	10.7	122
		Nitrate, as N MSD	15.0	1.1	u	12.0	125
		Sulfide	148	29.9	u	120	123
		Sulfide MSD	193	29.9	u	122	158
		Sulfate	452	54.5	u	429	105
		Sulfate MSD	505	54.5	u	480	105
-009	LL11SW-012-0001-SW	Nitrate Nitrite	1.3	0.010	u	1.0	133
		Nitrate Nitrite MSD	0.83	0.010	u	1.0	82.7
		Sulfide	7.4	1.0	u	3.6	203
		Sulfide MSD	7.5	1.0	u	3.6	206
		Sulfate	428	46.2		400	95.5
		Sulfate MSD	437	46.2		400	97.7

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Friday December 8th. 2000

Project # 00000-000-000-0000
Lab Batch: 9A11G992

Attn: Mr. Stan Levenger

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-005	LL11SB-035-0001-SO	Nitrate, as N	122	125	2.3
		Sulfide	123	158	24.7
		Sulfate	105	105	0.00
-009	LL11SW-012-0001-SW	Nitrate Nitrite	133	82.7	46.8
		Sulfide	203	206	1.5
		Sulfate	95.5	97.7	2.3

To: MKM-Ravenna AAP
8451 State Rt. 5
Bldg. 1038
Ravenna, OH 44266

Date: Thursday December 7th, 2000

Project # 00000-000-000-0000
Lab Batch: 9A11G992

Attn: Mr. Stan Levenger

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
80GNN099-LCS	Nitrate Nitrite	1.0	mg/L	108	NA	NA
80GSF115-LCS	Sulfide	4.1	mg/L	107	NA	NA
80GSA075-LCS	Sulfate	20.0	mg/L	97.6	NA	NA
80GNN098-LCS	Nitrate Nitrite	1.0	mg/L	104	NA	NA
80GSF111-LCS	Sulfide	3.6	mg/L	92.9	NA	NA
80GSA074-LCS	Sulfate	20.0	mg/L	102	NA	NA

CHAIN OF CUSTODY

SEVERN
TRENT
SERVICES

IL Chicago
117 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Stam Leung
Contact: Stam Leung
Company: MHE Engineering, Inc.
Address: 8457 State Route 5
Avonuma, OH 44266
Phone: 330-358-2920
Fax: 330-358-2924

Bill To: SPM
Contact: SPM
Company: SPM
Address: SPM
Phone: SPM
Fax: SPM
Quote: SPM

Shaded Areas For Internal Use Only 1 of 1
Lab Lot# 202645
Package Sealed (Yes) No **Samples Sealed** (Yes) No
Received on Ice (Yes) No **Samples Intact** (Yes) No
Temperature °C of Cooler 5.3

Sample Name: MEDIA GUARD **Signature:** [Signature]
Project Name: RI **Project Number:** G 00073
Project Location: Avonuma, OH **Date Required:** 21 Days
Lab PM: Eric Lang **Hard Copy:** 14 Days
Fax: 14 Days

Laboratory ID	Client Sample ID	Sampling Date	Matrix	Comp/Grab	Explosives	Metals	SVOC	VOC	Propellants	Pest/PCB	Nitrate, SO4, Sulfide	Cyanide	TPH (DRO) (GRO)	TPH (GRO)	Additional Analyses / Remarks
1	LL11SB-031A-0001-S0	3/13/01 1700	S	G			X	X					X		"Hot" Sample Point
	LL11SB-037-0001-S0	3/13/01 1545	S	G	X	X	X	X	X	X	X	X	X		6'-8'
	LL11SB-038-0001-S0	3/13/01 1507	S	G	X	X	X	X	X	X	X	X	X		6'-8'
	LL11SB-039-0001-S0	3/13/01 1610	S	G	X	X	X	X	X	X	X	X	X		6'-8'
	LL11SB-040-0001-S0	3/13/01 1643	S	G	X	X	X	X	X	X	X	X	X		6'-8'
	LL11SB-041-0001-S0	3/13/01 1130	S	G	X	X	X	X	X	X	X	X			NE corner AP-8
	LL11SB-042-0001-S0	3/13/01 1042	S	G	X	X	X	X	X	X	X	X			S Wall AP-11
	LL11SB-043-0001-S0	3/13/01 1340	S	G	X	X	X	X	X	X	X	X			W Wall AP-8
	LL11SB-037-0001-S0	3/13/01	S	G	X	X	X	X	X	X	X	X			Duplicate 3-13-01
	LL11SB-038-0001-TB	3/13/01 Lab	S	G											Trip Blank
	LL11SB-038-0001-ER	3/13/01 13:31	W	G										X	Equipment Blank

RECEIVED BY: [Signature] **DATE:** 3/13/01 **TIME:** 1830
RECEIVED BY: [Signature] **DATE:** 3/14/01 **TIME:** 0945
COMPANY: MHE Engineering **DATE:** 3/13/01 **TIME:** 1830
COMPANY: SPM **DATE:** 3/14/01 **TIME:** 0945

Matrix Key
SI Solid
US Drum Solid
DL Drum Liquid
Leachate
Wipe

Container Key
1 Plastic
2 VOA Vial
3 Sterile Plastic
4 Amber Glass
5 Widenmouth Glass
6 Other

Preservative Key
1 HCl Cool to 4
2 H2SO4 Cool to 4
3 HNO3 Cool to 4
4 NaOH Cool to 4
5 NaOH/Zn Cool to 4
6 Cool to 4
7 None

COMMENTS
Date Received 3/14/01
Courier: FX Hand Delivered
Bill of Lading see add sheet

SEVERN
TRENT
SERVICES

STL Chicago

2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:

Bill To:

Shaded Areas For Internal Use Only 1 of 1

Contact: Stacy Kendergruber
Company: MARK Engineering
Address: 8451 S.R.5
Bluewater, OH 44886
Phone: 330-358-2920
Fax: 330-358-2924
E-Mail: _____

Contact: _____
Company: _____
Address: _____
Phone: _____
Fax: _____
PO#: _____
Quote: _____

Lab Lot# 20245
Package Sealed Yes No No Samples Sealed Yes No
Received on Ice Yes No No Samples Intact Yes No No
Temperature °C of Cooler 3.2

Sampler Name:

Signature:

Refg #

/ Cont.

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

TP

TPH

Sulfide

TP

Sulfide

TP

Sulfide

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TP

Project Name:

Project Number:

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

Project Location:

Date Required

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

Lab PM:

Hard Copy:

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

Laboratory ID

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

MS-MSD

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

MS-MSD

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

MS-MSD

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

MS-MSD

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

SVOC

Propellants

Pest/PCB

NO₃, SO₄, Sulfide

Cyanide

TPH

Sulfide

MS-MSD

Client Sample ID

Volume

Preserv

Matrix

Comp/Grab

Explosives

TAL Metals

EXPLOSIVES DATA PACKAGE
RAVENNA AAP - LL #11
JOB# 202361

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Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	110	U		110	250	1.00000	ug/Kg	13924		03/19/01 2052	san
	RDX, Solid	58	U		58	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	1,3,5-Trinitrobenzene, Solid	17	U		17	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	1,3-Dinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	Nitrobenzene, Solid	22	U		22	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	2,4,6-TNT, Solid	34	U		34	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	Tetryl, Solid	43	U		43	200	1.00000	ug/Kg	13924		03/19/01 2052	san
	2,4-Dinitrotoluene, Solid	35	U		35	100	1.00000	ug/Kg	13924		03/19/01 2052	san
	2,6-Dinitrotoluene, Solid	47	U		47	200	1.00000	ug/Kg	13924		03/19/01 2052	san
	2-Nitrotoluene, Solid	33	U		33	200	1.00000	ug/Kg	13924		03/19/01 2052	san
	4-Nitrotoluene, Solid	46	U		46	500	1.00000	ug/Kg	13924		03/19/01 2052	san
	3-Nitrotoluene, Solid	50	U		50	200	1.00000	ug/Kg	13924		03/19/01 2052	san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SR-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5-Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid Nitrobenzene, Solid 2,4,6-TNT, Solid Tetrayl, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	110 57 17 17 22 33 42 35 46 32 45 49	U U U U U U U U U U U U		110 57 17 17 22 33 42 35 46 32 45 49	240 98 98 98 98 98 200 98 200 200 490 200	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	13924 13924 13924 13924 13924 13924 13924 13924 13924 13924 13924 13924		03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125 03/19/01 2125	san san san san san san san san san san san san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	110	U		110	250	1.00000	ug/Kg	13924		03/19/01 2157	san
	RDX, Solid	59	U		59	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	1,3,5-Trinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	1,3-Dinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	Nitrobenzene, Solid	22	U		22	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	2,4,6-TNT, Solid	34	U		34	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	Tetryl, Solid	43	U		43	200	1.00000	ug/Kg	13924		03/19/01 2157	san
	2,4-Dinitrotoluene, Solid	36	U		36	100	1.00000	ug/Kg	13924		03/19/01 2157	san
	2,6-Dinitrotoluene, Solid	48	U		48	200	1.00000	ug/Kg	13924		03/19/01 2157	san
	2-Nitrotoluene, Solid	33	U		33	200	1.00000	ug/Kg	13924		03/19/01 2157	san
	4-Nitrotoluene, Solid	47	U		47	500	1.00000	ug/Kg	13924		03/19/01 2157	san
	3-Nitrotoluene, Solid	50	U		50	200	1.00000	ug/Kg	13924		03/19/01 2157	san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA AAP-LL#11 ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX, Solid	110	U		110	250	1.00000	ug/Kg	13924		03/19/01 2230	san
	RDX, Solid	58	U		58	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	1,3,5-Trinitrobenzene, Solid	17	U		17	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	1,3-Dinitrobenzene, Solid	18	U		18	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	Nitrobenzene, Solid	22	U		22	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	2,4,6-TNT, Solid	33	U		33	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	Tetryl, Solid	43	U		43	200	1.00000	ug/Kg	13924		03/19/01 2230	san
	2,4-Dinitrotoluene, Solid	35	U		35	99	1.00000	ug/Kg	13924		03/19/01 2230	san
	2,6-Dinitrotoluene, Solid	47	U		47	200	1.00000	ug/Kg	13924		03/19/01 2230	san
	2-Nitrotoluene, Solid	33	U		33	200	1.00000	ug/Kg	13924		03/19/01 2230	san
	4-Nitrotoluene, Solid	46	U		46	500	1.00000	ug/Kg	13924		03/19/01 2230	san
	3-Nitrotoluene, Solid	50	U		50	200	1.00000	ug/Kg	13924		03/19/01 2230	san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC) HMX, Solid RDX, Solid 1,3,5-Trinitrobenzene, Solid 1,3-Dinitrobenzene, Solid Nitrobenzene, Solid 2,4,6-TNT, Solid Tetrayl, Solid 2,4-Dinitrotoluene, Solid 2,6-Dinitrotoluene, Solid 2-Nitrotoluene, Solid 4-Nitrotoluene, Solid 3-Nitrotoluene, Solid	110 59 18 18 22 34 43 36 48 33 47 50	U U U U U U U U U U U U U		110 59 18 18 22 34 43 36 48 33 47 50	250 100 100 100 100 100 100 100 200 200 200 500 200	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	13924 13924 13924 13924 13924 13924 13924 13924 13924 13924 13924 13924 13924		03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302 03/19/01 2302	san san san san san san san san san san san san san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	110	U		110	250	1.00000	ug/Kg	13924		03/20/01 0145	san
	RDX, Solid	59	U		59	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	1,3,5-Trinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	1,3-Dinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	Nitrobenzene, Solid	22	U		22	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	2,4,6-TNT, Solid	34	U		34	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	Tetryl, Solid	43	U		43	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	2,4-Dinitrotoluene, Solid	36	U		36	100	1.00000	ug/Kg	13924		03/20/01 0145	san
	2,6-Dinitrotoluene, Solid	48	U		48	200	1.00000	ug/Kg	13924		03/20/01 0145	san
	2-Nitrotoluene, Solid	33	U		33	200	1.00000	ug/Kg	13924		03/20/01 0145	san
	4-Nitrotoluene, Solid	47	U		47	500	1.00000	ug/Kg	13924		03/20/01 0145	san
	3-Nitrotoluene, Solid	50	U		50	200	1.00000	ug/Kg	13924		03/20/01 0145	san

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 202361			PROJECT: RAVENNA AAP-LL#11			ATTN: Stan Levensger						
CUSTOMER: MKM Engineers, Inc.												
Customer Sample ID: LL11SB-043-0001-SO						Laboratory Sample ID: 202361-8						
Date Sampled.....: 03/13/2001						Date Received.....: 03/14/2001						
Time Sampled.....: 13:40						Time Received.....: 09:45						
Sample Matrix.....: Soil												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMx, Solid	110	U		110	250	1.00000	ug/Kg	13924		03/20/01 0217	san
	RDX, Solid	59	U		59	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	1,3,5-Trinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	1,3-Dinitrobenzene, Solid	18	U		18	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	Nitrobenzene, Solid	22	U		22	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	2,4,6-TNT, Solid	34	U		34	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	Tetryl, Solid	43	U		43	200	1.00000	ug/Kg	13924		03/20/01 0217	san
	2,4-Dinitrotoluene, Solid	36	U		36	100	1.00000	ug/Kg	13924		03/20/01 0217	san
	2,6-Dinitrotoluene, Solid	48	U		48	200	1.00000	ug/Kg	13924		03/20/01 0217	san
	2-Nitrotoluene, Solid	33	U		33	200	1.00000	ug/Kg	13924		03/20/01 0217	san
	4-Nitrotoluene, Solid	47	U		47	500	1.00000	ug/Kg	13924		03/20/01 0217	san
	3-Nitrotoluene, Solid	50	U		50	200	1.00000	ug/Kg	13924		03/20/01 0217	san

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/03/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8330	Explosives by 8330 (HPLC)											
	HMX	0.35	U		0.35	0.60	1.00000	ug/L	13957		03/17/01 0823	san
	RDX	0.21	U		0.21	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	1,3,5-Trinitrobenzene	0.12	U		0.12	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	1,3-Dinitrobenzene	0.082	U		0.082	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	Nitrobenzene	0.14	U		0.14	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	2,4,6-TNT	0.11	U		0.11	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	Tetryl	0.34	U		0.34	0.48	1.00000	ug/L	13957		03/17/01 0823	san
	2,4-Dinitrotoluene	0.065	U		0.065	0.25	1.00000	ug/L	13957		03/17/01 0823	san
	2,6-Dinitrotoluene	0.32	U		0.32	0.48	1.00000	ug/L	13957		03/17/01 0823	san
	2-Nitrotoluene	0.25	U		0.25	0.48	1.00000	ug/L	13957		03/17/01 0823	san
	4-Nitrotoluene	0.52	U		0.52	1.2	1.00000	ug/L	13957		03/17/01 0823	san
	3-Nitrotoluene	0.16	U		0.16	0.48	1.00000	ug/L	13957		03/17/01 0823	san

* In Description = Dry Wgt.

METALS DATA PACKAGE
RAVENNA AAP - LL #11 (SOIL)
JOB# 202361

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LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 15:45
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	79.5	0.10	%	03/15/01	pjm
	% Moisture, Solid	20.5	0.10	%	03/15/01	pjm
7041	Antimony (GFAA) Antimony, Solid*	<0.29	0.29	mg/Kg	03/28/01	daj
7060A	Arsenic (GFAA) Arsenic, Solid*	15.4	1.9	mg/Kg	03/23/01	daj
7421	Lead (GFAA) Lead, Solid*	8.8	0.96	mg/Kg	03/22/01	daj
7841	Thallium (GFAA) Thallium, Solid*	<0.19	0.19	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	<0.042	0.042	mg/Kg	03/14/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	6990	18.6	mg/Kg	03/23/01	tds
	Barium, Solid*	27.0	0.93	mg/Kg	03/23/01	tds
	Beryllium, Solid*	<0.37	0.37	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.19	0.19	mg/Kg	03/23/01	tds
	Calcium, Solid*	297	9.3	mg/Kg	03/23/01	tds
	Chromium, Solid*	9.4	0.93	mg/Kg	03/23/01	tds
	Cobalt, Solid*	5.3	0.47	mg/Kg	03/23/01	tds
	Copper, Solid*	16.4	0.93	mg/Kg	03/23/01	tds
	Iron, Solid*	16200	4.7	mg/Kg	03/23/01	tds
	Magnesium, Solid*	1350	9.3	mg/Kg	03/23/01	tds
	Manganese, Solid*	250	0.93	mg/Kg	03/23/01	tds
	Nickel, Solid*	10.9	0.93	mg/Kg	03/23/01	tds
	Potassium, Solid*	695	46.6	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Sodium, Solid*	552	93.2	mg/Kg	03/23/01	tds
	Vanadium, Solid*	13.5	0.47	mg/Kg	03/23/01	tds
	Zinc, Solid*	47.4	0.93	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 15:07
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	81.3	0.10	%	03/15/01	pjm
	% Moisture, Solid	18.7	0.10	%	03/15/01	pjm
7041	Antimony (GFAA)					
	Antimony, Solid*	<0.27	0.27	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA)					
	Arsenic, Solid*	9.8	0.89	mg/Kg	03/22/01	daj
7421	Lead (GFAA)					
	Lead, Solid*	11.5	0.89	mg/Kg	03/22/01	daj
7841	Thallium (GFAA)					
	Thallium, Solid*	<0.18	0.18	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids					
	Mercury, Solid*	<0.041	0.041	mg/Kg	03/14/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	7170	18.9	mg/Kg	03/23/01	tds
	Barium, Solid*	25.3	0.95	mg/Kg	03/23/01	tds
	Beryllium, Solid*	<0.38	0.38	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.19	0.19	mg/Kg	03/23/01	tds
	Calcium, Solid*	192	9.5	mg/Kg	03/23/01	tds
	Chromium, Solid*	9.1	0.95	mg/Kg	03/23/01	tds
	Cobalt, Solid*	5.8	0.47	mg/Kg	03/23/01	tds
	Copper, Solid*	19.5	0.95	mg/Kg	03/23/01	tds
	Iron, Solid*	17800	4.7	mg/Kg	03/23/01	tds
	Magnesium, Solid*	1480	9.5	mg/Kg	03/23/01	tds
	Manganese, Solid*	245	0.95	mg/Kg	03/23/01	tds
	Nickel, Solid*	11.6	0.95	mg/Kg	03/23/01	tds
	Potassium, Solid*	707	47.3	mg/Kg	03/23/01	tds
	Selenium, Solid*	0.54	0.47	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Sodium, Solid*	631	94.6	mg/Kg	03/23/01	tds
	Vanadium, Solid*	13.3	0.47	mg/Kg	03/23/01	tds
	Zinc, Solid*	47.7	0.95	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-039-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	82.7	0.10	%	03/15/01	pjm
	% Moisture, Solid	17.3	0.10	%	03/15/01	pjm
7041	Antimony (GFAA) Antimony, Solid*	<0.27	0.27	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA) Arsenic, Solid*	22.3	1.8	mg/Kg	03/23/01	daj
7421	Lead (GFAA) Lead, Solid*	11.3	0.91	mg/Kg	03/22/01	daj
7841	Thallium (GFAA) Thallium, Solid*	<0.18	0.18	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	<0.040	0.040	mg/Kg	03/14/01	gok
60108	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	7460	18.2	mg/Kg	03/23/01	tds
	Barium, Solid*	28.8	0.91	mg/Kg	03/23/01	tds
	Beryllium, Solid*	0.44	0.36	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.18	0.18	mg/Kg	03/23/01	tds
	Calcium, Solid*	206	9.1	mg/Kg	03/23/01	tds
	Chromium, Solid*	11.6	0.91	mg/Kg	03/23/01	tds
	Cobalt, Solid*	8.0	0.45	mg/Kg	03/23/01	tds
	Copper, Solid*	21.2	0.91	mg/Kg	03/23/01	tds
	Iron, Solid*	22100	4.5	mg/Kg	03/23/01	tds
	Magnesium, Solid*	2160	9.1	mg/Kg	03/23/01	tds
	Manganese, Solid*	277	0.91	mg/Kg	03/23/01	tds
	Nickel, Solid*	18.6	0.91	mg/Kg	03/23/01	tds
	Potassium, Solid*	1110	45.5	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.45	0.45	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.45	0.45	mg/Kg	03/23/01	tds
	Sodium, Solid*	873	90.9	mg/Kg	03/23/01	tds
	Vanadium, Solid*	13.2	0.45	mg/Kg	03/23/01	tds
	Zinc, Solid*	57.5	0.91	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-040-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:43
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	82.2	0.10	%	03/15/01	pjm
	% Moisture, Solid	17.8	0.10	%	03/15/01	pjm
7041	Antimony (GFAA) Antimony, Solid*	<0.28	0.28	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA) Arsenic, Solid*	23.4	1.9	mg/Kg	03/23/01	daj
7421	Lead (GFAA) Lead, Solid*	10.9	0.94	mg/Kg	03/22/01	daj
7841	Thallium (GFAA) Thallium, Solid*	<0.19	0.19	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	<0.040	0.040	mg/Kg	03/14/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	8690	18.7	mg/Kg	03/23/01	tds
	Barium, Solid*	34.7	0.94	mg/Kg	03/23/01	tds
	Beryllium, Solid*	0.48	0.37	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.19	0.19	mg/Kg	03/23/01	tds
	Calcium, Solid*	247	9.4	mg/Kg	03/23/01	tds
	Chromium, Solid*	13.4	0.94	mg/Kg	03/23/01	tds
	Cobalt, Solid*	8.6	0.47	mg/Kg	03/23/01	tds
	Copper, Solid*	21.9	0.94	mg/Kg	03/23/01	tds
	Iron, Solid*	24700	4.7	mg/Kg	03/23/01	tds
	Magnesium, Solid*	2500	9.4	mg/Kg	03/23/01	tds
	Manganese, Solid*	323	0.94	mg/Kg	03/23/01	tds
	Nickel, Solid*	21.5	0.94	mg/Kg	03/23/01	tds
	Potassium, Solid*	1340	46.8	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Sodium, Solid*	970	93.6	mg/Kg	03/23/01	tds
	Vanadium, Solid*	14.8	0.47	mg/Kg	03/23/01	tds
	Zinc, Solid*	63.9	0.94	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-041-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 11:30
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	78.4	0.10	%	03/15/01	pjm
	% Moisture, Solid	21.6	0.10	%	03/15/01	pjm
7041	Antimony (GFAA)					
	Antimony, Solid*	<0.29	0.29	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA)					
	Arsenic, Solid*	11.2	0.98	mg/Kg	03/22/01	daj
7421	Lead (GFAA)					
	Lead, Solid*	9.1	0.98	mg/Kg	03/22/01	daj
7841	Thallium (GFAA)					
	Thallium, Solid*	<0.20	0.20	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids					
	Mercury, Solid*	<0.042	0.042	mg/Kg	03/14/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	6020	18.9	mg/Kg	03/23/01	tds
	Barium, Solid*	23.5	0.94	mg/Kg	03/23/01	tds
	Beryllium, Solid*	<0.38	0.38	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.19	0.19	mg/Kg	03/23/01	tds
	Calcium, Solid*	844	9.4	mg/Kg	03/23/01	tds
	Chromium, Solid*	9.8	0.94	mg/Kg	03/23/01	tds
	Cobalt, Solid*	6.3	0.47	mg/Kg	03/23/01	tds
	Copper, Solid*	21.1	0.94	mg/Kg	03/23/01	tds
	Iron, Solid*	20600	4.7	mg/Kg	03/23/01	tds
	Magnesium, Solid*	1810	9.4	mg/Kg	03/23/01	tds
	Manganese, Solid*	145	0.94	mg/Kg	03/23/01	tds
	Nickel, Solid*	16.0	0.94	mg/Kg	03/23/01	tds
	Potassium, Solid*	679	47.2	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.47	0.47	mg/Kg	03/23/01	tds
	Sodium, Solid*	712	94.5	mg/Kg	03/23/01	tds
	Vanadium, Solid*	11.8	0.47	mg/Kg	03/23/01	tds
	Zinc, Solid*	53.3	0.94	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-042-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 10:42
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	83.0	0.10	%	03/15/01	pjm
	% Moisture, Solid	17.0	0.10	%	03/15/01	pjm
7041	Antimony (GFAA) Antimony, Solid*	<0.27	0.27	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA) Arsenic, Solid*	20.6	1.8	mg/Kg	03/23/01	daj
7421	Lead (GFAA) Lead, Solid*	11.8	0.89	mg/Kg	03/22/01	daj
7841	Thallium (GFAA) Thallium, Solid*	0.19	0.18	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	<0.040	0.040	mg/Kg	03/14/01	gok
60108	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	11900	17.6	mg/Kg	03/23/01	tds
	Barium, Solid*	69.2	0.88	mg/Kg	03/23/01	tds
	Beryllium, Solid*	0.74	0.35	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.18	0.18	mg/Kg	03/23/01	tds
	Calcium, Solid*	7850	8.8	mg/Kg	03/23/01	tds
	Chromium, Solid*	16.0	0.88	mg/Kg	03/23/01	tds
	Cobalt, Solid*	7.9	0.44	mg/Kg	03/23/01	tds
	Copper, Solid*	16.3	0.88	mg/Kg	03/23/01	tds
	Iron, Solid*	21300	4.4	mg/Kg	03/23/01	tds
	Magnesium, Solid*	4630	8.8	mg/Kg	03/23/01	tds
	Manganese, Solid*	578	0.88	mg/Kg	03/23/01	tds
	Nickel, Solid*	22.1	0.88	mg/Kg	03/23/01	tds
	Potassium, Solid*	1480	44.0	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.44	0.44	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.44	0.44	mg/Kg	03/23/01	tds
	Sodium, Solid*	923	87.9	mg/Kg	03/23/01	tds
	Vanadium, Solid*	18.1	0.44	mg/Kg	03/23/01	tds
	Zinc, Solid*	55.3	0.88	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 202361

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-043-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 13:40
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	77.1	0.10	%	03/15/01	pjm
	% Moisture, Solid	22.9	0.10	%	03/15/01	pjm
7041	Antimony (GFAA)					
	Antimony, Solid*	<0.29	0.29	mg/Kg	03/29/01	daj
7060A	Arsenic (GFAA)					
	Arsenic, Solid*	22.4	1.9	mg/Kg	03/23/01	daj
7421	Lead (GFAA)					
	Lead, Solid*	12.7	0.97	mg/Kg	03/22/01	daj
7841	Thallium (GFAA)					
	Thallium, Solid*	<0.19	0.19	mg/Kg	03/28/01	daj
7471A	Mercury (CVAA) Solids					
	Mercury, Solid*	<0.043	0.043	mg/Kg	03/14/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	8910	20.0	mg/Kg	03/23/01	tds
	Barium, Solid*	42.3	1.0	mg/Kg	03/23/01	tds
	Beryllium, Solid*	0.49	0.40	mg/Kg	03/23/01	tds
	Cadmium, Solid*	<0.20	0.20	mg/Kg	03/23/01	tds
	Calcium, Solid*	1260	10	mg/Kg	03/23/01	tds
	Chromium, Solid*	13.4	1.0	mg/Kg	03/23/01	tds
	Cobalt, Solid*	8.0	0.50	mg/Kg	03/23/01	tds
	Copper, Solid*	23.6	1.0	mg/Kg	03/23/01	tds
	Iron, Solid*	25000	5.0	mg/Kg	03/23/01	tds
	Magnesium, Solid*	2550	10	mg/Kg	03/23/01	tds
	Manganese, Solid*	231	1.0	mg/Kg	03/23/01	tds
	Nickel, Solid*	19.5	1.0	mg/Kg	03/23/01	tds
	Potassium, Solid*	802	49.9	mg/Kg	03/23/01	tds
	Selenium, Solid*	<0.50	0.50	mg/Kg	03/23/01	tds
	Silver, Solid*	<0.50	0.50	mg/Kg	03/23/01	tds
	Sodium, Solid*	909	99.8	mg/Kg	03/23/01	tds
	Vanadium, Solid*	15.1	0.50	mg/Kg	03/23/01	tds
	Zinc, Solid*	61.6	1.0	mg/Kg	03/23/01	tds

* In Description = Dry Wgt.

METALS DATA PACKAGE
RAVENNA AAP - LL #11 (WATER)
JOB# 202361

Laboratory Chronicle	1
Chain of Custody	6
Case Narrative	14
Data Reporting Forms	16
ICP Raw Data	73
Furnace AA Raw Data	228
Mercury Raw Data	295
Cyanide Raw Data.....	NA
Digestion Information	305

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/02/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
7041	Antimony (GFAA) Antimony	<3.0	3.0	ug/L	03/28/01	daj
7060A	Arsenic (GFAA) Arsenic	<2.0	2.0	ug/L	03/20/01	gok
7421	Lead (GFAA) Lead	<2.0	2.0	ug/L	03/20/01	daj
7841	Thallium (GFAA) Thallium	<2.0	2.0	ug/L	03/20/01	daj
7470A	Mercury (CVAA) Mercury	<0.20	0.20	ug/L	03/15/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum	<200	200	ug/L	03/21/01	tds
	Barium	<10.0	10.0	ug/L	03/21/01	tds
	Beryllium	<4.0	4.0	ug/L	03/21/01	tds
	Cadmium	<2.0	2.0	ug/L	03/21/01	tds
	Calcium	<100	100	ug/L	03/21/01	tds
	Chromium	<10.0	10.0	ug/L	03/21/01	tds
	Cobalt	<5.0	5.0	ug/L	03/21/01	tds
	Copper	<10.0	10.0	ug/L	03/21/01	tds
	Iron	60.2	50.0	ug/L	03/21/01	tds
	Magnesium	<100	100	ug/L	03/21/01	tds
	Manganese	<10.0	10.0	ug/L	03/21/01	tds
	Nickel	<10.0	10.0	ug/L	03/21/01	tds
	Selenium	<5.0	5.0	ug/L	03/21/01	tds
	Silver	<5.0	5.0	ug/L	03/21/01	tds
	Vanadium	<5.0	5.0	ug/L	03/21/01	tds
	Zinc	<10.0	10.0	ug/L	03/21/01	tds
6010B	Metals Analysis (ICAP)					
	Potassium	<2000	2000	ug/L	03/22/01	pfk
	Sodium	<1000	1000	ug/L	03/22/01	pfk

* In Description = Dry Wgt.

METALS DATA PACKAGE
RAVENNA AAP - LL #11
JOB# 202645

Laboratory Chronicle	1
Chain of Custody	5
Case Narrative	11
Data Reporting Forms	13
ICP Raw Data	75
Furnace AA Raw Data	252
Mercury Raw Data	340
Cyanide Raw Data	NA
Digestion Information	351

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 202645

Date: 04/20/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-031A-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 17:00
Sample Matrix.....:

Laboratory Sample ID: 202645-1
Date Received.....: 04/02/2001
Time Received.....: 14:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
Method	% Solids Determination					
	% Solids, Solid	80.8	0.10	%	02/15/01	pjm
	% Moisture, Solid	19.2	0.10	%	02/15/01	pjm
7041	Antimony (GFAA) Antimony, Solid*	<0.25	0.25	mg/Kg	04/12/01	daj
7060A	Arsenic (GFAA) Arsenic, Solid*	10.9	1.7	mg/Kg	04/10/01	daj
7421	Lead (GFAA) Lead, Solid*	9.0	0.83	mg/Kg	04/09/01	daj
7841	Thallium (GFAA) Thallium, Solid*	<0.83	0.83	mg/Kg	04/11/01	daj
7471A	Mercury (CVAA) Solids Mercury, Solid*	<0.041	0.041	mg/Kg	04/03/01	gok
6010B	Metals Analysis (ICAP Trace)					
	Aluminum, Solid*	7750	16.1	mg/Kg	04/11/01	pfk
	Barium, Solid*	25.5	0.80	mg/Kg	04/11/01	pfk
	Beryllium, Solid*	0.37	0.32	mg/Kg	04/11/01	pfk
	Cadmium, Solid*	<0.16	0.16	mg/Kg	04/11/01	pfk
	Calcium, Solid*	88.6	8.0	mg/Kg	04/11/01	pfk
	Chromium, Solid*	10.4	0.80	mg/Kg	04/11/01	pfk
	Cobalt, Solid*	7.4	0.40	mg/Kg	04/11/01	pfk
	Copper, Solid*	22.8	0.80	mg/Kg	04/11/01	pfk
	Iron, Solid*	20600	4.0	mg/Kg	04/11/01	pfk
	Magnesium, Solid*	1840	8.0	mg/Kg	04/11/01	pfk
	Manganese, Solid*	213	0.80	mg/Kg	04/11/01	pfk
	Nickel, Solid*	15.8	0.80	mg/Kg	04/11/01	pfk
	Potassium, Solid*	965	40.2	mg/Kg	04/11/01	pfk
	Selenium, Solid*	<0.40	0.40	mg/Kg	04/12/01	tds
	Silver, Solid*	<0.40	0.40	mg/Kg	04/11/01	pfk
	Sodium, Solid*	212	80.4	mg/Kg	04/11/01	pfk
	Vanadium, Solid*	13.1	0.40	mg/Kg	04/12/01	tds
	Zinc, Solid*	59.3	0.80	mg/Kg	04/11/01	pfk

* In Description = Dry Wgt.



April 5, 2001

STL SACRAMENTO PROJECT NUMBER: **G1C150265**
PO/CONTRACT: **G00081-LA52000**

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605-1500

Tel: 916 373 5600
Fax: 916 371 8420
www.stl-inc.com

Eric Lang
Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466

Dear Mr. Lang,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on March 15, 2001. These samples are associated with your 202362 project.

The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4433.

Sincerely,

Robert Hrabak
Project Manager

SOLID, 8330, Nitroglycerin
only

STL Chicago

Client Sample ID: LL11SB-037-0001-SO

HPLC

Lot-Sample #...: G1C150265-001 Work Order #...: DXGET1AA Matrix.....: SOLID
 Date Sampled...: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #...: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2,4-Dinitrofluorobenzene	104	(61 - 135)
3,4-Dinitrotoluene	97	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-038-0001-SO

HPLC

Lot-Sample #....: G1C150265-002 Work Order #....: DXGFD1AA Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #....: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	102	(61 - 135)
3,4-Dinitrotoluene	95	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-039-0001-SO

HPLC

Lot-Sample #....: G1C150265-003 Work Order #....: DXGFG1AA Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #....: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4-Dinitrofluorobenzene	100	(61 - 135)
3,4-Dinitrotoluene	94	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-040-0001-SO

HPLC

Lot-Sample #...: G1C150265-004 Work Order #...: DXGFJ1AA Matrix.....: SOLID
 Date Sampled...: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #...: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4-Dinitrofluorobenzene	103	(61 - 135)
3,4-Dinitrotoluene	97	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-041-0001-SO

HPLC

Lot-Sample #...: G1C150265-005 Work Order #...: DXGFK1AA Matrix.....: SOLID
 Date Sampled...: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #...: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2,4-Dinitrofluorobenzene	99	(61 - 135)
3,4-Dinitrotoluene	92	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-042-0001-SO

HPLC

Lot-Sample #....: G1C150265-006 Work Order #....: DXGFL1AA Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #....: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4-Dinitrofluorobenzene	100	(61 - 135)
3,4-Dinitrotoluene	94	(58 - 113)

STL Chicago

Client Sample ID: LL11SB-043-0001-SO

HPLC

Lot-Sample #....: G1C150265-007 Work Order #....: DXGFN1AA Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/19/01 Analysis Date...: 03/28/01
 Prep Batch #....: 1078467
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Nitroglycerin	ND	0.50	mg/kg

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2,4-Dinitrofluorobenzene	102	(61 - 135)
3,4-Dinitrotoluene	95	(58 - 113)

**WATER, 8330, Nitroglycerin
only**

STL Chicago

Client Sample ID: LL11SB-038-0001-ER

HPLC

Lot-Sample #....: G1C150265-008 Work Order #....: DXGFP2AA Matrix.....: WATER
 Date Sampled....: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/21/01 Analysis Date...: 03/28/01
 Prep Batch #....: 1080350
 Dilution Factor: 1 Method.....: SW846 8330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	<u>UNITS</u>
Nitroglycerin	ND	0.65	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2,4-Dinitrofluorobenzene	92	(55 - 144)
3,4-Dinitrotoluene	92	(49 - 129)

SOLID, UV/HPLC per SOP, Nitroguanidine

STL Chicago

Client Sample ID: LL11SB-037-0001-SO

Trace Level Organic Compounds

Lot-Sample #...: G1C150265-001 Work Order #...: DXGET1AD Matrix.....: SOLID
Date Sampled...: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #...: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-038-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-002 Work Order #....: DXGFD1AD Matrix.....: SOLID
 Date Sampled...: 03/13/01 Date Received...: 03/15/01
 Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
 Prep Batch #....: 1079213
 Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-039-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-003 Work Order #....: DXGFG1AD Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #....: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-040-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-004 Work Order #....: DXGFJ1AD Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #....: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-041-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-005 Work Order #....: DXGFK1AD Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #....: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-042-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-006 Work Order #....: DXGFL1AD Matrix.....: SOLID
Date Sampled...: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #....: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

STL Chicago

Client Sample ID: LL11SB-043-0001-SO

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-007 Work Order #....: DXGFN1AD Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/20/01 Analysis Date...: 03/23/01
Prep Batch #....: 1079213
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	0.25	mg/kg

WATER, UV/HPLC per SOP, Nitroguanidine

STL Chicago

Client Sample ID: LL11SB-038-0001-ER

Trace Level Organic Compounds

Lot-Sample #....: G1C150265-008 Work Order #....: DXGFP1AD Matrix.....: WATER
Date Sampled...: 03/13/01 Date Received...: 03/15/01
Prep Date.....: 03/19/01 Analysis Date...: 03/23/01
Prep Batch #....: 1078280
Dilution Factor: 1 Method.....: NONE UV/HPLC per

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Nitroguanidine	ND	20	ug/L

SOLID/WATER, 353.2, Nitrocellulose

STL Chicago

Client Sample ID: LL11SB-037-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-001 Work Order #....: DXGET Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	2.0 B	2.5	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	19.5		%	ASTM D 2216-90	03/19-03/20/01	1078411

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-038-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-002 Work Order #....: DXGFD Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.8 B	2.5	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	18.5		%	ASTM D 2216-90	03/19-03/20/01	1078411

NOTE (S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-039-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-003 Work Order #....: DXGFG Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	2.0 B	2.4	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	17.2		%	ASTM D 2216-90	03/19-03/20/01	1078412

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-040-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-004 Work Order #....: DXGFJ Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.8 B	2.4	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	17.2		%	ASTM D 2216-90	03/19-03/20/01	1078412

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-041-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-005 Work Order #....: DXGFK Matrix.....: SOLID
 Date Sampled....: 03/13/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.9 B	2.6	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	21.8		%	ASTM D 2216-90	03/19-03/20/01	1078412

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-042-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-006
Date Sampled....: 03/13/01Work Order #....: DXGFL
Date Received...: 03/15/01

Matrix.....: SOLID

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrocellulose	1.6 B	2.5	mg/kg	MCAWW 353.2	04/02-04/03/01	1089451
Percent Moisture	18.9		%	ASTM D 2216-90	03/19-03/20/01	1078412

NOTE(S):

RL: Reporting Limit

B: Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-043-0001-SO

General Chemistry

Lot-Sample #....: G1C150265-007 Work Order #....: DXGFN Matrix.....: SOLID
Date Sampled....: 03/13/01 Date Received...: 03/15/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	2.0 B	2.5	mg/kg	MCAWW 353.2	03/19-03/21/01	1076122
Percent Moisture	20.0		%	ASTM D 2216-90	03/19-03/20/01	1078412

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Results and reporting limits have been adjusted for dry weight.

STL Chicago

Client Sample ID: LL11SB-038-0001-ER

General Chemistry

Lot-Sample #...: G1C150265-008 Work Order #...: DXGFP Matrix.....: WATER
 Date Sampled...: 03/13/01 Date Received...: 03/15/01

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrocellulose	ND	0.50	mg/L	MCAWW 353.2	03/26-03/27/01	1080250

VOLATILES BY GC/MS
RAVENNA AAP - LL #11
JOB# 202361

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LABORATORY TEST RESULTS												
Job Number: 202361			Date:03/22/2001									
CUSTOMER: MKM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11						ATTN: Stan Levenger			
Customer Sample ID: LL11SB-031A-0001-SO												
Date Sampled.....: 03/13/2001												
Time Sampled.....: 17:00												
Sample Matrix.....: Soil												
Laboratory Sample ID: 202361-1												
Date Received.....: 03/14/2001												
Time Received.....: 09:45												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.1 17.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LI#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-031A-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 17:00
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Bromomethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,1-Dichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Chloroform, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,2-Dichloroethane (total), Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Trichloroethene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,2-Dichloropropane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Bromodichloromethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	4-Methyl-2-pentanone (MIBK), Solid*	5	U		5	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Tetrachloroethene, Solid*	4	U		4	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Dibromochloromethane, Solid*	0.6	U		0.6	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Chlorobenzene, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 17:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Bromoform, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	1,1,2,2-Tetrachloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1514	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Leverger

Customer Sample ID: LL11SB-031A-0001-SO
Date Sampled: 03/13/2001
Time Sampled: 17:00
Sample Matrix: Soil

Laboratory Sample ID: 202361-1
Date Received: 03/14/2001
Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatiles Organics (5ml Purge)	29	U		29	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Chloromethane, Solid*	22	U		22	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Vinyl chloride, Solid*	13	U		13	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Bromomethane, Solid*	24	U	*	24	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,1-Dichloroethane, Solid*	17	U		17	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Carbon disulfide, Solid*	25	U		25	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Acetone, Solid*	35	U		35	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Methylene chloride, Solid*	24	U		24	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,1-Dichloroethane, Solid*	16	U		16	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	2-Butanone (MEK), Solid*	62	U		62	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Chloroform, Solid*	22	U		22	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,1,1-Trichloroethane, Solid*	20	U		20	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Carbon tetrachloride, Solid*	20	U		20	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,2-Dichloroethane (Total), Solid*	35	U		35	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Benzene, Solid*	17	U		17	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,2-Dichloroethane, Solid*	26	U		26	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Trichloroethane, Solid*	26	U		26	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,2-Dichloropropane, Solid*	21	U		21	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Bromodichloromethane, Solid*	23	U		23	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	cis-1,3-Dichloropropene, Solid*	27	U		27	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	4-Methyl-2-pentanone (MIBK), Solid*	46	U		46	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Toluene, Solid*	22	U		22	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	trans-1,3-Dichloropropene, Solid*	24	U		24	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	1,1,2-Trichloroethane, Solid*	38	U		38	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Tetrachloroethane, Solid*	28	U		28	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	2-Hexanone, Solid*	63	U		63	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Dibromochloromethane, Solid*	23	U		23	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn
	Chlorobenzene, Solid*	27	U		27	120	1.0000	ug/Kg	13763		03/17/01 1503	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 17:00
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	27	U		27	120	1.0000	ug/Kg	13763		03/17/01 1503	jdj
	Styrene, Solid*	35	U		35	120	1.0000	ug/Kg	13763		03/17/01 1503	jdj
	Bromoform, Solid*	22	U	*	22	120	1.0000	ug/Kg	13763		03/17/01 1503	jdj
	1,1,2,2-Tetrachloroethane, Solid*	23	U		23	120	1.0000	ug/Kg	13763		03/17/01 1503	jdj
	Xylenes (total), Solid*	61	U		61	120	1.0000	ug/Kg	13763		03/17/01 1503	jdj

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Bromomethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,1-Dichloroethene, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Chloroform, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,2-Dichloroethene (total), Solid*	3	U		3	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Trichloroethene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,2-Dichloropropane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Bromodichloromethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	4-Methyl-2-pentanone (MIBK), Solid*	5	U		5	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Tetrachloroethene, Solid*	5	U		5	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Dibromochloromethane, Solid*	0.7	U		0.7	6	1.00000	ug/Kg	13757		03/15/01 1543	jd
	Chlorobenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jd

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jdn
	Bromoform, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1543	jdn
	1,1,2,2-Tetrachloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1543	jdn

* In Description = Dry Wgt.

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-S0
Date Sampled: 03/13/2001

Date Sampled.....: 03/13/2001

Time Sampled.....: 15:07

Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3

Date Received.....: 03/14/2001

Time Received.....: 09:45

[illegible]

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-SO
 Date Sampled: 03/13/2001
 Time Sampled: 15:07
 Sample Matrix: Soil

Laboratory Sample ID: 202361-3
 Date Received: 03/14/2001
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Bromomethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,1-Dichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Chloroform, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,2-Dichloroethane (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,2-Dichloropropane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Bromodichloromethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	4-Methyl-2-pentanone (MIBK), Solid*	5	U		5	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Tetrachloroethane, Solid*	4	U		4	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Dibromochloromethane, Solid*	0.6	U		0.6	6	1.00000	ug/Kg	13759		03/16/01 1917	jd
	Chlorobenzene, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1917	jd

* In Description = Dry Wgt.

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Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SR-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jdn
	Bromofom, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jdn
	1,1,2,2-Tetrachloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1917	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1917	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.7 17.3			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Leverger

Customer Sample ID: LL11SB-039-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatiles Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Bromomethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,1-Dichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Chloroform, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,2-Dichloroethane (total), Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,2-Dichloropropane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Bromodichloromethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	4-Methyl-2-pentanone (MIBK), Solid*	4	U		4	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Tetrachloroethane, Solid*	4	U		4	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Dibromochloromethane, Solid*	0.6	U		0.6	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Chlorobenzene, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Bromofom, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	1,1,2,2-Tetrachloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13757		03/15/01 1641	jdn

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LI#11

ATTN: Stan Levensger

Customer Sample ID: LI11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.2 17.8			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatile Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Bromomethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,1-Dichloroethene, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Chloroform, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,2-Dichloroethene (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Trichloroethene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,2-Dichloropropane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Bromodichloromethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	4-Methyl-2-pentanone (MIBK), Solid*	5	U		5	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Tetrachloroethene, Solid*	4	U		4	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Dibromochloromethane, Solid*	0.6	U		0.6	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj
	Chlorobenzene, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1210	jdj

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdn
	Bromoform, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdn
	1,1,2,2-Tetrachloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1210	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1210	jdn

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 202361			Date:03/22/2001									
CUSTOMER: MKM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11						ATTN: Stan Levenger			
Customer Sample ID: LL11SB-041-0001-SO Date Sampled.....: 03/13/2001 Time Sampled.....: 11:30 Sample Matrix.....: Soil			Laboratory Sample ID: 202361-6 Date Received.....: 03/14/2001 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	78.4 21.6			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-S0
Date Sampled.....: 03/13/2001
Time Sampled.....: 11:30
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatile Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Bromomethane, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,1-Dichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Chloroform, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,2-Dichloroethene (total), Solid*	3	U		3	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Trichloroethene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,2-Dichloropropane, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Bromodichloromethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	4-Methyl-2-pentanone (MIBK), Solid*	5	U		5	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Tetrachloroethene, Solid*	5	U		5	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Dibromochloromethane, Solid*	0.7	U		0.7	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Chlorobenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA AAP-LL#11 ATTN: Stan Levenger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Bromofom, Solid*	1	U		1	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	1,1,2,2-Tetrachloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13766		03/19/01 2239	jdn

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	83.0 17.0			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAB-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 10:42
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatiles Organics											
	Chloromethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Vinyl chloride, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Bromomethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Chloroethane, Solid*	3	U		3	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,1-Dichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Carbon disulfide, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Acetone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Methylene chloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,1-Dichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	2-Butanone (MEK), Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Chloroform, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,1,1-Trichloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Carbon tetrachloride, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,2-Dichloroethane (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Benzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,2-Dichloroethane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Trichloroethene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,2-Dichloropropane, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Bromodichloromethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	cis-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	4-Methyl-2-pentanone (MIBK), Solid*	4	U		4	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Toluene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	trans-1,3-Dichloropropene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,1,2-Trichloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Tetrachloroethene, Solid*	4	U		4	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	2-Hexanone, Solid*	6	U		6	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Dibromochloromethane, Solid*	0.6	U		0.6	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Chlorobenzene, Solid*	0.9	U		0.9	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Bromofom, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	1,1,2,2-Tetrachloroethane, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1309	jdn

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SR-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.1 22.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
		C										

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1352	jdn
	Styrene, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1352	jdn
	Bromofom, Solid*	1	U		1	6	1.00000	ug/Kg	13759		03/16/01 1352	jdn
	1,1,2,2-Tetrachloroethane, Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1352	jdn
	Xylenes (total), Solid*	2	U		2	6	1.00000	ug/Kg	13759		03/16/01 1352	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-TB
Date Sampled: 03/13/2001
Time Sampled: 10:42
Sample Matrix: Water

Laboratory Sample ID: 202361-9
Date Received: 03/14/2001
Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
82608	Volatiles Organics											
	Chloromethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Vinyl chloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Bromomethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Chloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,1-Dichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Carbon disulfide	0.5	U		0.5	2	1.00000	ug/L	13765		03/16/01 1543	jdn
	Acetone	2	U		2	2	1.00000	ug/L	13765		03/16/01 1543	jdn
	Methylene chloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,1-Dichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	2-Butanone (MEK)	2	U		2	2	1.00000	ug/L	13765		03/16/01 1543	jdn
	Chloroform	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,1,1-Trichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Carbon tetrachloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,2-Dichloroethane (total)	0.6	U		0.6	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Benzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,2-Dichloroethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Trichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,2-Dichloropropane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Bromodichloromethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	cis-1,3-Dichloropropene	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	4-Methyl-2-pentanone (MIBK)	0.9	U		0.9	2	1.00000	ug/L	13765		03/16/01 1543	jdn
	Toluene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	trans-1,3-Dichloropropene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,1,2-Trichloroethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Tetrachloroethene	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	2-Hexanone	1	U		1	2	1.00000	ug/L	13765		03/16/01 1543	jdn
	Dibromochloromethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Chlorobenzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-TB
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-9
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Styrene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Bromoform	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	1,1,2,2-Tetrachloroethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn
	Xylenes (total)	0.5	U		0.5	0.5	1.00000	ug/L	13765		03/16/01 1543	jdn

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled: 03/13/2001
 Time Sampled: 13:31
 Sample Matrix: Water

Laboratory Sample ID: 202361-10
 Date Received: 03/14/2001
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8260B	Volatiles Organics											
	Chloromethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Vinyl chloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Bromomethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Chloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,1-Dichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Carbon disulfide	0.5	U		0.5	2	1.00000	ug/L	13765		03/16/01 1610	jdn
	Acetone	2	U		2	2	1.00000	ug/L	13765		03/16/01 1610	jdn
	Methylene chloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,1-Dichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	2-Butanone (MEK)	2	U		2	2	1.00000	ug/L	13765		03/16/01 1610	jdn
	Chloroform	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,1,1-Trichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Carbon tetrachloride	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,2-Dichloroethane (total)	0.6	U		0.6	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Benzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,2-Dichloroethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Trichloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,2-Dichloropropane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Bromodichloromethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	cis-1,3-Dichloropropene	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	4-Methyl-2-pentanone (MIBK)	0.9	U		0.9	2	1.00000	ug/L	13765		03/16/01 1610	jdn
	Toluene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	trans-1,3-Dichloropropene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	1,1,2-Trichloroethane	0.4	U		0.4	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Tetrachloroethane	0.3	U		0.3	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	2-Hexanone	1	U		1	2	1.00000	ug/L	13765		03/16/01 1610	jdn
	Dibromochloromethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn
	Chlorobenzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdn

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202361

Date: 03/22/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Ethylbenzene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdhn
	Styrene	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdhn
	Bromform	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdhn
	1,1,2,2-Tetrachloroethane	0.2	U		0.2	0.5	1.00000	ug/L	13765		03/16/01 1610	jdhn
	Xylenes (total)	0.5	U		0.5	0.5	1.00000	ug/L	13765		03/16/01 1610	jdhn

* In Description = Dry Wgt.

**SEMIVOLATILES BY GC/MS
RAVENNA AAP - LL#11
JOB# 202361**

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LABORATORY TEST RESULTS

Date:03/28/2001

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Laboratory Sample ID: 202361-1
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.1 17.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

Job Number: 202361

LABORATORY TEST RESULTS

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 17:00
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Bis(2-chloroethyl)ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	1,3-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	1,4-Dichlorobenzene, Solid*	90	U		90	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	1,2-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Methylphenol (o-cresol), Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Hexachloroethane, Solid*	96	U		96	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Methylphenol (m/p-cresol), Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Chlorophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Isophorone, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,4-Dimethylphenol, Solid*	190	U		190	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Hexachlorobutadiene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Naphthalene, Solid*	1100	U		89	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,4-Dichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Chloroaniline, Solid*	160	U	*	160	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,4,6-Trichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,4,5-Trichlorophenol, Solid*	100	U		100	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Hexachlorocyclopentadiene, Solid*	180	U		180	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Methylnaphthalene, Solid*	2500	U		170	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Nitroaniline, Solid*	120	U		120	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Chloronaphthalene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2-Nitrophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	3-Nitroaniline, Solid*	190	U		190	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 17:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	97	U		97	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	2,4-Dinitrophenol, Solid*	250	U		250	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Acenaphthylene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Acenaphthene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Dibenzofuran, Solid*	390	J	A	130	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Nitrophenol, Solid*	210	U		210	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Fluorene, Solid*	420	U	M	88	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Nitroaniline, Solid*	160	U		160	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Bromophenyl phenyl ether, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Hexachlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Diethyl phthalate, Solid*	89	U		89	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4-Chlorophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Pentachlorophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	4,6-Dinitro-2-methylphenol, Solid*	240	U		240	2100	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Phenanthrene, Solid*	950	U	H	110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Anthracene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Carbazole, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Di-n-butyl phthalate, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Pyrene, Solid*	310	U		310	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Butyl benzyl phthalate, Solid*	210	U		210	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Benzo(a)anthracene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Chrysene, Solid*	260	J	A	120	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	3,3-Dichlorobenzidine, Solid*	250	U		250	820	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Bis(2-ethylhexyl)phthalate, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Di-n-octyl phthalate, Solid*	250	U		250	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1450	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#1

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 17:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Indeno(1,2,3-cd)pyrene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Dibenz(a,h)anthracene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1450	jb
	Benzo(ghi)perylene, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1450	jb

* In Description = Dry Wgt.

Job Number: 202361

Date: 03/28/2001

LABORATORY TEST RESULTS

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semi-volatile Organics											
	Phenol, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Bis(2-chloroethyl)ether, Solid*	100	U		100	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	1,3-Dichlorobenzene, Solid*	100	U		100	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	1,4-Dichlorobenzene, Solid*	93	U		93	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	1,2-Dichlorobenzene, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Methylphenol (o-cresol), Solid*	180	U		180	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Hexachloroethane, Solid*	99	U		99	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Methylphenol (m/p-cresol), Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Chlorophenol, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Isophorone, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2,4-Dimethylphenol, Solid*	200	U		200	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Hexachlorobutadiene, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Naphthalene, Solid*	92	U		92	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2,4-Dichlorophenol, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Chloroaniline, Solid*	160	U	*	160	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2,4,6-Trichlorophenol, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Hexachlorocyclopentadiene, Solid*	110	U		110	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Methylnaphthalene, Solid*	190	U		190	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Nitroaniline, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Chloronaphthalene, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2-Nitrophenol, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	3-Nitroaniline, Solid*	190	U		190	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-037-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 15:45
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	100	U		100	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	2,4-Dinitrophenol, Solid*	260	U		260	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Acenaphthylene, Solid*	100	U		100	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Acenaphthene, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Dibenzofuran, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Nitrophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Fluorene, Solid*	90	U		90	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Nitroaniline, Solid*	160	U		160	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Bromophenyl phenyl ether, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Hexachlorobenzene, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Diethyl phthalate, Solid*	92	U		92	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4-Chlorophenyl phenyl ether, Solid*	110	U		110	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Pentachlorophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	4,6-Dinitro-2-methylphenol, Solid*	250	U		250	2100	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Phenanthrene, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Anthracene, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Carbazole, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Di-n-butyl phthalate, Solid*	140	U		140	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Fluoranthene, Solid*	140	U		140	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Pyrene, Solid*	320	U		320	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Butyl benzyl phthalate, Solid*	210	U		210	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Benzo(a)anthracene, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Chrysene, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	3,3-Dichlorobenzidine, Solid*	250	U		250	840	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Bis(2-ethylhexyl)phthalate, Solid*	170	U		170	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Di-n-octyl phthalate, Solid*	260	U		260	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	410	1.00000	ug/Kg	14191		03/15/01 1133	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	120	U		120	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Indeno(1,2,3-cd)pyrene, Solid*	160	U		160	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Dibenzo(a,h)anthracene, Solid*	150	U		150	410	1.00000	ug/Kg	14191		03/15/01 1133	jb
	Benzo(ghi)perylene, Solid*	160	U		160	410	1.00000	ug/Kg	14191		03/15/01 1133	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	81.3 18.7			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SR-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Bis(2-chloroethyl)ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	1,3-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	1,4-Dichlorobenzene, Solid*	91	U		91	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	1,2-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Methylphenol (o-cresol), Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Hexachloroethane, Solid*	97	U		97	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Methylphenol (m/p-cresol), Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Chlorophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Isophorone, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,4-Dimethylphenol, Solid*	190	U		190	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Hexachlorobutadiene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Naphthalene, Solid*	90	U		90	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,4-Dichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Chloroaniline, Solid*	160	U	*	160	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,4,6-Trichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,4,5-Trichlorophenol, Solid*	100	U		100	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Hexachlorocyclopentadiene, Solid*	180	U		180	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Methylnaphthalene, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Nitroaniline, Solid*	120	U		120	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Chloronaphthalene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2-Nitrophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	3-Nitroaniline, Solid*	190	U		190	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 15:07
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	98	U		98	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	2,4-Dinitrophenol, Solid*	250	U		250	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Acenaphthylene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Acenaphthene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Dibenzofuran, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Nitrophenol, Solid*	210	U		210	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Fluorene, Solid*	88	U		88	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Nitroaniline, Solid*	160	U		160	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Bromophenyl phenyl ether, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Hexachlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Diethyl phthalate, Solid*	90	U		90	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4-Chlorophenyl phenyl ether, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Pentachlorophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	4,6-Dinitro-2-methylphenol, Solid*	240	U		240	2100	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Phenanthrene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Anthracene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Carbazole, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Di-n-butyl phthalate, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Pyrene, Solid*	310	U		310	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Butyl benzyl phthalate, Solid*	210	U		210	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Benzo(a)anthracene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Chrysene, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	3,3-Dichlorobenzidine, Solid*	250	U		250	820	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Bis(2-ethylhexyl)phthalate, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Di-n-octyl phthalate, Solid*	260	U		260	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1202	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Indeno(1,2,3-cd)pyrene, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Dibenzo(a,h)anthracene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1202	jb
	Benzo(ghi)perylene, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1202	jb

* In Description = Dry Wgt.

Job Number: 202361

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
Date Received.....: 03/14/2001
Time Received.....: 09:45

[illegible]

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semi-volatile Organics											
	Phenol, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Bis(2-chloroethyl)ether, Solid*	99	U		99	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	1,3-Dichlorobenzene, Solid*	98	U		98	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	1,4-Dichlorobenzene, Solid*	89	U		89	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	1,2-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Methylphenol (o-cresol), Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Hexachloroethane, Solid*	95	U		95	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Methylphenol (m/p-cresol), Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Chlorophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Isophorone, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,4-dimethylphenol, Solid*	190	U		190	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Hexachlorobutadiene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Naphthalene, Solid*	87	U		87	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,4-dichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Chloroaniline, Solid*	150	U	*	150	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,4,6-Trichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,4,5-Trichlorophenol, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Hexachlorocyclopentadiene, Solid*	180	U		180	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Methylnaphthalene, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Nitroaniline, Solid*	120	U		120	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Chloronaphthalene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2-Nitrophenol, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	3-Nitroaniline, Solid*	190	U		190	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	96	U		96	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	2,4-dinitrophenol, Solid*	250	U		250	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Acenaphthylene, Solid*	98	U		98	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Acenaphthene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Dibenzofuran, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Nitrophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Fluorene, Solid*	86	U		86	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Nitroaniline, Solid*	160	U		160	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Bromophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Hexachlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Diethyl phthalate, Solid*	87	U		87	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4-Chlorophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Pentachlorophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	4,6-Dinitro-2-methylphenol, Solid*	240	U		240	2000	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Phenanthrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Anthracene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Carbazole, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Di-n-butyl phthalate, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Pyrene, Solid*	300	U		300	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Butyl benzyl phthalate, Solid*	200	U		200	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Benzo(a)anthracene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Chrysene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	3,3-Dichlorobenzidine, Solid*	240	U		240	800	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Bis(2-ethylhexyl)phthalate, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Di-n-octyl phthalate, Solid*	250	U		250	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Benzo(b)fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Benzo(k)fluoranthene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1230	jb

* In Description = Dry Wgt.

2001
3/28

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Indeno(1,2,3-cd)pyrene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Dibenzo(a,h)anthracene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1230	jb
	Benzo(ghi)perylene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1230	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.2 17.8			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semi-volatile Organics											
	Phenol, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Bis(2-chloroethoxy)ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	1,3-Dichlorobenzene, Solid*	99	U		99	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	1,4-Dichlorobenzene, Solid*	89	U		89	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	1,2-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Methylphenol (o-cresol), Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Hexachloroethane, Solid*	95	U		95	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Methylphenol (m/p-cresol), Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Chlorophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Isophorone, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2,4-Dimethylphenol, Solid*	190	U		190	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Hexachlorobutadiene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Naphthalene, Solid*	88	U		88	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2,4-Dichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Chloroaniline, Solid*	150	U	*	150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2,4,6-Trichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Hexachlorocyclopentadiene, Solid*	180	U		180	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Methylnaphthalene, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Nitroaniline, Solid*	120	U		120	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Chloronaphthalene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2-Nitrophenol, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	3-Nitroaniline, Solid*	190	U		190	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	96	U		96	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	2,4-Dinitrophenol, Solid*	250	U		250	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Acenaphthylene, Solid*	99	U		99	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Acenaphthene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Dibenzofuran, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Nitrophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Fluorene, Solid*	87	U		87	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Nitroaniline, Solid*	160	U		160	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Bromophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Hexachlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Diethyl phthalate, Solid*	88	U		88	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4-Chlorophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Pentachlorophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	4,6-Dinitro-2-methylphenol, Solid*	240	U		240	2000	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Phenanthrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Anthracene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Carbazole, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Di-n-butyl phthalate, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Pyrene, Solid*	310	U		310	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Butyl benzyl phthalate, Solid*	200	U		200	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Benzo(a)anthracene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Chrysene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	3,3-Dichlorobenzidine, Solid*	240	U		240	810	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Bis(2-ethylhexyl)phthalate, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Di-n-octyl phthalate, Solid*	250	U		250	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1258	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzoc(a)pyrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Indeno(1,2,3-cd)pyrene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Dibenzo(a,h)anthracene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1258	jb
	Benzoc(ghi)perylene, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1258	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	78.4 21.6			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensen

Customer Sample ID: LL11SB-041-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 11:30
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semi-volatile Organics											
	Phenol, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Bis(2-chloroethyl)ether, Solid*	100	U		100	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	1,3-Dichlorobenzene, Solid*	100	U		100	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	1,4-Dichlorobenzene, Solid*	93	U		93	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Methylphenol (o-cresol), Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,2,4,4-Tetrachlorobutane, Solid*	180	U		180	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	n-Nitroso-di-n-propylamine, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Hexachloroethane, Solid*	140	U		140	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Methylphenol (m/p-cresol), Solid*	100	U		100	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Chlorophenol, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Bis(2-chloroethoxy)methane, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	1,2,4-Trichlorobenzene, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Isophorone, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,4-Dimethylphenol, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Hexachlorobutadiene, Solid*	200	U		200	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Naphthalene, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,4-Dichlorophenol, Solid*	92	U		92	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Chloroaniline, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,4,6-Trichlorophenol, Solid*	160	U	*	160	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,4,5-Trichlorophenol, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Hexachlorocyclopentadiene, Solid*	110	U		110	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Methylnaphthalene, Solid*	190	U		190	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Nitroaniline, Solid*	180	U		180	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Chloronaphthalene, Solid*	120	U		120	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Chloro-3-methylphenol, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2-Nitrophenol, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	3-Nitroaniline, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
		200	U		200	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 11:30
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	100	U		100	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	2,4-Dinitrophenol, Solid*	260	U		260	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Acenaphthylene, Solid*	100	U		100	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Acenaphthene, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Dibenzofuran, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Nitrophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Fluorene, Solid*	91	U		91	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Nitroaniline, Solid*	160	U		160	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Bromophenyl phenyl ether, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Hexachlorobenzene, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Diethyl phthalate, Solid*	92	U		92	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Chlorophenyl phenyl ether, Solid*	110	U		110	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4-Chlorophenol, Solid*	220	U		220	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	n-Nitrosodiphenylamine, Solid*	160	U		160	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	4,6-Dinitro-2-methylphenol, Solid*	250	U		250	2100	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Phenanthrene, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Anthracene, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Carbazole, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Di-n-butyl phthalate, Solid*	140	U		140	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Fluoranthene, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Pyrene, Solid*	320	U		320	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Butyl benzyl phthalate, Solid*	210	U		210	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Benzo(a)anthracene, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Chrysene, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	3,3-Dichlorobenzidine, Solid*	260	U		260	850	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Bis(2-ethylhexyl)phthalate, Solid*	170	U		170	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Di-n-octyl phthalate, Solid*	260	U		260	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	420	1.00000	ug/Kg	14191		03/15/01 1326	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc. PROJECT: RAVENNA AAP-LL#11 ATTN: Stan Levenger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	120	U		120	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Indeno(1,2,3-cd)pyrene, Solid*	160	U		160	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Dibenzo(a,h)anthracene, Solid*	150	U		150	420	1.00000	ug/Kg	14191		03/15/01 1326	jb
	Benzo(ghi)perylene, Solid*	160	U		160	420	1.00000	ug/Kg	14191		03/15/01 1326	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	83.0 17.0			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Bis(2-chloroethyl)ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	1,3-Dichlorobenzene, Solid*	98	U		98	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	1,4-Dichlorobenzene, Solid*	89	U		89	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	1,2-Dichlorobenzene, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Methylphenol (o-cresol), Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,2-oxybis (1-chloropropane), Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	n-Nitroso-di-n-propylamine, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Hexachloroethane, Solid*	95	U		95	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Methylphenol (m/p-cresol), Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Chlorophenol, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Bis(2-chloroethoxy)methane, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	1,2,4-Trichlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Isophorone, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,4-Dimethylphenol, Solid*	190	U		190	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Hexachlorobutadiene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Naphthalene, Solid*	88	U		88	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,4-Dichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Chloroaniline, Solid*	150	U	*	150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,4,6-Trichlorophenol, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,4,5-Trichlorophenol, Solid*	180	U		180	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Hexachlorocyclopentadiene, Solid*	100	U		100	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Methylnaphthalene, Solid*	170	U		170	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Nitroaniline, Solid*	120	U		120	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Chloronaphthalene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Chloro-3-methylphenol, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2-Nitrophenol, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	3-Nitroaniline, Solid*	190	U		190	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	96	U		96	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	2,4-Dinitrophenol, Solid*	250	U		250	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Acenaphthylene, Solid*	98	U		98	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Acenaphthene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Dibenzofuran, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Nitrophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Fluorene, Solid*	86	U		86	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Nitroaniline, Solid*	160	U		160	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Bromophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Hexachlorobenzene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Diethyl phthalate, Solid*	88	U		88	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4-Chlorophenyl phenyl ether, Solid*	100	U		100	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Pentachlorophenol, Solid*	210	U		210	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	n-Nitrosodiphenylamine, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	4,6-Dinitro-2-methylphenol, Solid*	240	U		240	2000	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Phenanthrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Anthracene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Carbazole, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Di-n-butyl phthalate, Solid*	130	U		130	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Fluoranthene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Pyrene, Solid*	310	U		310	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Butyl benzyl phthalate, Solid*	200	U		200	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Benzo(a)anthracene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Chrysene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	3,3-Dichlorobenzidine, Solid*	240	U		240	800	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Bis(2-ethylhexyl)phthalate, Solid*	160	U		160	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Di-n-octyl phthalate, Solid*	250	U		250	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Benzo(b)fluoranthene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Benzo(k)fluoranthene, Solid*	120	U		120	400	1.00000	ug/Kg	14191		03/15/01 1354	jb

* In Description = Dry Wgt.

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Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11S8-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene, Solid*	110	U		110	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Indeno(1,2,3-cd)pyrene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Dibenzo(a,h)anthracene, Solid*	140	U		140	400	1.00000	ug/Kg	14191		03/15/01 1354	jb
	Benzo(ghi)perylene, Solid*	150	U		150	400	1.00000	ug/Kg	14191		03/15/01 1354	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.1 22.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 13:40
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semi-volatile Organics											
	Phenol, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Bis(2-chloroethyl)ether, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	1,3-Dichlorobenzene, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	1,4-Dichlorobenzene, Solid*	96	U		96	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	1,2-Dichlorobenzene, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Methylphenol (o-cresol), Solid*	180	U		180	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,2-oxybis (1-chloropropane), Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	n-Nitroso-di-n-propylamine, Solid*	150	U		150	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Hexachloroethane, Solid*	100	U		100	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Methylphenol (m/p-cresol), Solid*	160	U		160	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Chlorophenol, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Bis(2-chloroethoxy)methane, Solid*	160	U		160	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	1,2,4-Trichlorobenzene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Isophorone, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,4-Dimethylphenol, Solid*	200	U		200	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Hexachlorobutadiene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Naphthalene, Solid*	95	U		95	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,4-Dichlorophenol, Solid*	150	U		150	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Chloroaniline, Solid*	170	U	*	170	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,4,6-Trichlorophenol, Solid*	150	U		150	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,4,5-Trichlorophenol, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Hexachlorocyclopentadiene, Solid*	190	U		190	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Methylnaphthalene, Solid*	180	U		180	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Nitroaniline, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Chloronaphthalene, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Chloro-3-methylphenol, Solid*	140	U		140	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2-Nitrophenol, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	3-Nitroaniline, Solid*	200	U		200	430	1.00000	ug/Kg	14191		03/15/01 1422	jb

* In Description = Dry Wgt.

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Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate, Solid*	100	U		100	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	2,4-Dinitrophenol, Solid*	270	U		270	2200	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Acenaphthylene, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Acenaphthene, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Dibenzofuran, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Nitrophenol, Solid*	220	U		220	2200	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Fluorene, Solid*	93	U		93	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Nitroaniline, Solid*	170	U		170	2200	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Bromophenyl phenyl ether, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Hexachlorobenzene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Diethyl phthalate, Solid*	95	U		95	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4-Chlorophenyl phenyl ether, Solid*	110	U		110	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Pentachlorophenol, Solid*	230	U		230	2200	1.00000	ug/Kg	14191		03/15/01 1422	jb
	n-Nitrosodiphenylamine, Solid*	160	U		160	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	4,6-Dinitro-2-methylphenol, Solid*	260	U		260	2200	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Phenanthrene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Anthracene, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Carbazole, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Di-n-butyl phthalate, Solid*	140	U		140	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Fluoranthene, Solid*	150	U		150	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Pyrene, Solid*	330	U		330	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Butyl benzyl phthalate, Solid*	220	U		220	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Benzo(a)anthracene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Chrysene, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	3,3-Dichlorobenzidine, Solid*	260	U		260	870	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Bis(2-ethylhexyl)phthalate, Solid*	180	U		180	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Di-n-octyl phthalate, Solid*	270	U		270	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Benzo(b)fluoranthene, Solid*	160	U		160	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Benzo(k)fluoranthene, Solid*	130	U		130	430	1.00000	ug/Kg	14191		03/15/01 1422	jb

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 202361

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DI	DATE/TIME	TECH
	Benzoc(a)pyrene, Solid*	120	U		120	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Indeno(1,2,3-cd)pyrene, Solid*	160	U		160	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Dibenzo(a,h)anthracene, Solid*	150	U		150	430	1.00000	ug/Kg	14191		03/15/01 1422	jb
	Benzoc(ghi)perylene, Solid*	170	U		170	430	1.00000	ug/Kg	14191		03/15/01 1422	jb

* In Description = Dry Wgt.

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Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-ER
Date Sampled.....: 03/13/2001
Time Sampled.....: 13:31
Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8270C	Semivolatile Organics											
	Phenol	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Bis(2-chloroethyl) ether	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	1,3-Dichlorobenzene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	1,4-Dichlorobenzene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	1,2-Dichlorobenzene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Methylphenol (o-cresol)	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,2-oxybis (1-chloropropane)	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	n-Nitroso-di-n-propylamine	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Hexachloroethane	6	U		6	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Methylphenol (m/p-cresol)	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Chlorophenol	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Bis(2-chloroethoxy)methane	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	1,2,4-Trichlorobenzene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Isophorone	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,4-Dimethylphenol	5	U		6	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Hexachlorobutadiene	3	U		5	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Naphthalene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,4-Dichlorophenol	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Chloroaniline	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,4,6-Trichlorophenol	3	U	*	3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,4,5-Trichlorophenol	4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Hexachlorocyclopentadiene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Methylnaphthalene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Nitroaniline	4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Chloronaphthalene	4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Chloro-3-methylphenol	3	U	*	3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2-Nitrophenol	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	3-Nitroaniline	5	U		5	49	1.00000	ug/L	14203		03/19/01 1534	jb

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Dimethyl phthalate	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	2,4-Dinitrophenol	5	U		5	49	1.00000	ug/L	14203		03/19/01 1534	jb
	Acenaphthylene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Acenaphthene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Dibenzofuran	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Nitrophenol	6	U		6	49	1.00000	ug/L	14203		03/19/01 1534	jb
	Fluorene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Nitroaniline	6	U		6	49	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Bromophenyl phenyl ether	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Hexachlorobenzene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Diethyl phthalate	5	U		5	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4-Chlorophenyl phenyl ether	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Pentachlorophenol	4	U		4	49	1.00000	ug/L	14203		03/19/01 1534	jb
	n-Nitrosodiphenylamine	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	4,6-Dinitro-2-methylphenol	5	U		5	49	1.00000	ug/L	14203		03/19/01 1534	jb
	Phenanthrene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Anthracene	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Carbazole	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Di-n-butyl phthalate	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Fluoranthene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Pyrene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Butyl benzyl phthalate	3	U		3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Benzo(a)anthracene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Chrysene	4	U		4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	3,3-Dichlorobenzidine	3	U	*	3	19	1.00000	ug/L	14203		03/19/01 1534	jb
	Bis(2-ethylhexyl)phthalate	5	U	*	5	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Di-n-octyl phthalate	5	U	*	5	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Benzo(b)fluoranthene	6	U	*	6	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Benzo(k)fluoranthene	5	U	*	5	10	1.00000	ug/L	14203		03/19/01 1534	jb
		4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb

* In Description = Dry Wgt.

004

Job Number: 202361

LABORATORY TEST RESULTS

Date: 03/28/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Benzo(a)pyrene	3	U	*	3	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Indeno(1,2,3-cd)pyrene	4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Dibenzo(a,h)anthracene	4	U	*	4	10	1.00000	ug/L	14203		03/19/01 1534	jb
	Benzo(ghi)perylene	5	U	*	5	10	1.00000	ug/L	14203		03/19/01 1534	jb

* In Description = Dry Wgt.

PESTICIDES DATA PACKAGE
RAVENNA AAP - LL #11
JOB# 202361

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Job Number: 202361

LABORATORY TEST RESULTS

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-037-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 15:45
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8081A	Organochlorine Pesticide Analysis alpha-BHC, Solid* beta-BHC, Solid* delta-BHC, Solid* gamma-BHC (lindane), Solid* Heptachlor, Solid* Aldrin, Solid* Heptachlor epoxide, Solid* Endosulfan I, Solid* Dieldrin, Solid* 4,4'-DDE, Solid* Endrin, Solid* Endosulfan II, Solid* 4,4'-DD, Solid* Endosulfan sulfate, Solid* 4,4'-DDT, Solid* Methoxychlor, Solid* alpha-Chlordane, Solid* gamma-Chlordane, Solid* Toxaphene, Solid* Endrin aldehyde, Solid* Endrin ketone, Solid*	0.20 0.19 0.14 0.29 0.22 0.16 0.17 0.34 0.42 0.81 0.53 0.35 0.45 0.36 0.46 2.9 0.15 0.19 5.7 0.41 0.36	U U U U U U U U U U U U U U U U U U U U U U		0.20 0.19 0.14 0.29 0.22 0.16 0.17 0.34 0.42 0.81 0.53 0.35 0.45 0.36 0.46 2.9 0.15 0.19 5.7 0.41 0.36	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 10 1.0 1.0 21 2.1 2.1	1.00000 1.00000	ug/Kg ug/Kg	14069 14069		03/22/01 2136 03/22/01 2136	pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Method	% Solids Determination										
	% Moisture, Solid	81.3						%	13125		03/15/01 0000	pjm
	Organochlorine Pesticide Analysis	18.7							13125		03/15/01 0000	pjm
	alpha-BHC, Solid*	0.20	U		0.20	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	beta-BHC, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	delta-BHC, Solid*	0.13	U		0.13	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	gamma-BHC (Lindane), Solid*	0.28	U		0.28	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Heptachlor, Solid*	0.22	U		0.22	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Aldrin, Solid*	0.16	U		0.16	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Heptachlor epoxide, Solid*	0.17	U		0.17	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endosulfan I, Solid*	0.33	U		0.33	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Dieldrin, Solid*	0.42	U		0.42	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	4,4'-DDE, Solid*	0.79	U		0.79	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endrin, Solid*	0.53	U		0.53	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endosulfan II, Solid*	0.34	U		0.34	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	4,4'-DDD, Solid*	0.44	U		0.44	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endosulfan sulfate, Solid*	0.35	U		0.35	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	4,4'-DDT, Solid*	0.45	U		0.45	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Methoxychlor, Solid*	2.8	U		2.8	10	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	alpha-Chlordane, Solid*	0.15	U		0.15	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	gamma-Chlordane, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Toxaphene, Solid*	5.6	U		5.6	20	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endrin aldehyde, Solid*	0.40	U		0.40	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg
	Endrin ketone, Solid*	0.35	U		0.35	2.1	1.00000	ug/Kg	14069		03/23/01 0033	pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11S8-039-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.7 17.3			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8081A	Organochlorine Pesticide Analysis alpha-BHC, Solid* beta-BHC, Solid* delta-BHC, Solid* gamma-BHC (Lindane), Solid* Heptachlor, Solid* Aldrin, Solid* Heptachlor epoxide, Solid* Endosulfan I, Solid* Dieldrin, Solid* 4,4'-DDE, Solid* Endrin, Solid* Endosulfan II, Solid* 4,4'-DDD, Solid* Endosulfan sulfate, Solid* 4,4'-DDT, Solid* Methoxychlor, Solid* alpha-Chlordane, Solid* gamma-Chlordane, Solid* Toxaphene, Solid* Endrin aldehyde, Solid* Endrin ketone, Solid*	0.19 0.18 0.13 0.28 0.22 0.16 0.17 0.33 0.41 0.78 0.52 0.34 0.43 0.35 0.45 2.8 0.14 0.18 5.5 0.40 0.35	U U U U U U U U U U U U U U U U U U U U U U		0.19 0.18 0.13 0.28 0.22 0.16 0.17 0.33 0.41 0.78 0.52 0.34 0.43 0.35 0.45 2.8 0.14 0.18 5.5 0.40 0.35	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 10 1.0 1.0 20 2.0 2.0	1.00000 1.00000	ug/Kg ug/Kg	14069 14069		03/23/01 0219 03/23/01 0219	pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.2 17.8			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, Solid*	0.19	U		0.19	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	beta-BHC, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	delta-BHC, Solid*	0.13	U		0.13	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	gamma-BHC (lindane), Solid*	0.28	U		0.28	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Heptachlor, Solid*	0.22	U		0.22	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Aldrin, Solid*	0.16	U		0.16	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Heptachlor epoxide, Solid*	0.17	U		0.17	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Endosulfan I, Solid*	0.33	U		0.33	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Dieldrin, Solid*	0.41	U		0.41	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	4,4'-DDE, Solid*	0.79	U		0.79	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Endrin, Solid*	0.52	U		0.52	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Endosulfan II, Solid*	0.34	U		0.34	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	4,4'-DDD, Solid*	0.44	U		0.44	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Endosulfan sulfate, Solid*	0.35	U		0.35	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	4,4'-DDT, Solid*	0.45	U		0.45	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Methoxychlor, Solid*	2.8	U		2.8	10	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	alpha-Chlordane, Solid*	0.15	U		0.15	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	gamma-Chlordane, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 0255	pjg
	Toxaphene, Solid*	5.6	U		5.6	20	1.00000	ug/Kg	14069		03/23/01 0255	pjg
Endrin aldehyde, Solid*	0.40	U		0.40	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg	
Endrin ketone, Solid*	0.35	U		0.35	2.1	1.00000	ug/Kg	14069		03/23/01 0255	pjg	

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Method	% Solids Determination										
	% Solids, Solid	78.4										
	% Moisture, Solid	21.6										
	Organochlorine Pesticide Analysis											
	alpha-BHC, Solid*	0.20	U		0.20	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	beta-BHC, Solid*	0.19	U		0.19	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	delta-BHC, Solid*	0.14	U		0.14	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	gamma-BHC (lindane), Solid*	0.29	U		0.29	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Heptachlor, Solid*	0.23	U		0.23	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Aldrin, Solid*	0.17	U		0.17	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Heptachlor epoxide, Solid*	0.18	U		0.18	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endosulfan I, Solid*	0.34	U		0.34	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Dieldrin, Solid*	0.43	U		0.43	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	4,4'-DDE, Solid*	0.83	U		0.83	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endrin, Solid*	0.55	U		0.55	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endosulfan II, Solid*	0.36	U		0.36	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	4,4'-DDD, Solid*	0.46	U		0.46	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endosulfan sulfate, Solid*	0.37	U		0.37	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	4,4'-DDT, Solid*	0.47	U		0.47	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Methoxychlor, Solid*	2.9	U		2.9	11	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	alpha-Chlordane, Solid*	0.15	U		0.15	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	gamma-Chlordane, Solid*	0.19	U		0.19	1.1	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Toxaphene, Solid*	5.9	U		5.9	21	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endrin aldehyde, Solid*	0.42	U		0.42	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg
	Endrin ketone, Solid*	0.37	U		0.37	2.2	1.00000	ug/Kg	14069		03/23/01 0330	pjg

* In Description = Dry Wgt.

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Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Method	% Solids Determination										
	% Solids, Solid	83.0										
	% Moisture, Solid	17.0										
	Organochlorine Pesticide Analysis											
	alpha-BHC, Solid*	0.19	U		0.19	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	beta-BHC, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	delta-BHC, Solid*	0.13	U		0.13	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	gamma-BHC (Lindane), Solid*	0.28	U		0.28	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Heptachlor, Solid*	0.22	U		0.22	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Aldrin, Solid*	0.16	U		0.16	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Heptachlor epoxide, Solid*	0.17	U		0.17	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endosulfan I, Solid*	0.32	U		0.32	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Diehdrin, Solid*	0.41	U		0.41	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	4,4'-DDE, Solid*	0.78	U		0.78	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endrin, Solid*	0.52	U		0.52	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endosulfan II, Solid*	0.34	U		0.34	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	4,4'-DDD, Solid*	0.43	U		0.43	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endosulfan sulfate, Solid*	0.35	U		0.35	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	4,4'-DDT, Solid*	0.44	U		0.44	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Methoxychlor, Solid*	2.8	U		2.8	10	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	alpha-Chlordane, Solid*	0.14	U		0.14	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	gamma-Chlordane, Solid*	0.18	U		0.18	1.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Toxaphene, Solid*	5.5	U		5.5	20	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endrin aldehyde, Solid*	0.40	U		0.40	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg
	Endrin ketone, Solid*	0.35	U		0.35	2.0	1.00000	ug/Kg	14069		03/23/01 04:05	pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.1 22.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8081A	Organochlorine Pesticide Analysis alpha-BHC, Solid* beta-BHC, Solid* delta-BHC, Solid* gamma-BHC (Lindane), Solid* Heptachlor, Solid* Aldrin, Solid* Heptachlor epoxide, Solid* Endosulfan I, Solid* Dieldrin, Solid* 4,4'-DDE, Solid* Endrin, Solid* Endosulfan II, Solid* 4,4'-DDD, Solid* Endosulfan sulfate, Solid* 4,4'-DDT, Solid* Methoxychlor, Solid* alpha-Chlordane, Solid* gamma-Chlordane, Solid* Toxaphene, Solid* Endrin aldehyde, Solid* Endrin ketone, Solid*	0.21 0.19 0.14 0.30 0.23 0.17 0.18 0.35 0.44 0.83 0.55 0.36 0.46 0.37 0.48 3.0 0.15 0.19 5.9 0.42 0.37	U U U U U U U U U U U U U U U U U U U U U U		0.21 0.19 0.14 0.30 0.23 0.17 0.18 0.35 0.44 0.83 0.55 0.36 0.46 0.37 0.48 3.0 0.15 0.19 5.9 0.42 0.37	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 11 1.1 1.1 21 2.2 2.2	1.00000 1.00000	ug/Kg ug/Kg	14069 14069	03/23/01 0441 03/23/01 0441	pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg pjg	

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC	0.0041	U		0.0041	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	beta-BHC	0.016	U		0.016	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	delta-BHC	0.0094	U		0.0094	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	gamma-BHC (Lindane)	0.0037	U		0.0037	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Heptachlor	0.0035	U		0.0035	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Aldrin	0.0064	U		0.0064	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Heptachlor epoxide	0.0054	U		0.0054	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endosulfan I	0.0036	U		0.0036	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Dieldrin	0.0099	U		0.0099	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	4,4'-DDE	0.023	U		0.023	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endrin	0.014	U		0.014	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endosulfan II	0.019	U		0.019	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	4,4'-DDD	0.026	U		0.026	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endosulfan sulfate	0.014	U		0.014	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	4,4'-DDT	0.0075	U		0.0075	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	Methoxychlor	0.16	U		0.16	0.25	1.00000	ug/L	14067		03/22/01 1839	pjg
	alpha-Chlordane	0.0052	U		0.0052	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	gamma-Chlordane	0.0054	U		0.0054	0.025	1.00000	ug/L	14067		03/22/01 1839	pjg
	Toxaphene	0.14	U		0.14	0.50	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endrin aldehyde	0.046	U		0.046	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg
	Endrin ketone	0.011	U		0.011	0.050	1.00000	ug/L	14067		03/22/01 1839	pjg

* In Description = Dry Wgt.

**PCB DATA PACKAGE
RAVENNA AAP - LL#11
JOB# 202361**

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Job Number: 202361

LABORATORY TEST RESULTS

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method 8082	% Solids Determination	79.5			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	20.5			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	3.0	U		3.0	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1221, Solid*	8.6	U		8.6	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1232, Solid*	4.8	U		4.8	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1242, Solid*	7.1	U		7.1	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1248, Solid*	4.8	U		4.8	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1254, Solid*	2.5	U		2.5	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg
	Aroclor 1260, Solid*	2.0	U		2.0	10	1.00000	ug/Kg	13990		03/20/01 2031	pjg

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method 8082	% Solids Determination	81.3		0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	18.7		0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid										
	PCB Analysis										
	Aroclor 1016, solid*	2.9	U	2.9	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1221, solid*	8.4	U	8.4	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1232, solid*	4.8	U	4.8	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1242, solid*	7.0	U	7.0	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1248, solid*	4.8	U	4.8	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1254, solid*	2.4	U	2.4	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg
	Aroclor 1260, solid*	2.0	U	2.0	10	1.00000	ug/Kg	13990		03/20/01 2104	pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKH Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	% Solids Determination	82.7			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	17.3			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	2.9	U		2.9	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1221, Solid*	8.3	U		8.3	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1232, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1242, Solid*	6.9	U		6.9	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1248, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1254, Solid*	2.4	U		2.4	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg
	Aroclor 1260, Solid*	1.9	U		1.9	10	1.00000	ug/Kg	13990		03/20/01 2243	pjg

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method 8082	% Solids Determination	82.2			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	17.8			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	2.9	U		2.9	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1221, Solid*	8.4	U		8.4	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1232, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1242, Solid*	6.9	U		6.9	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1248, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1254, Solid*	2.4	U		2.4	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg
	Aroclor 1260, Solid*	1.9	U		1.9	10	1.00000	ug/Kg	13990		03/20/01 2316	pjg

* In Description = Dry Wgt.

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Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	% Solids Determination	78.4			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	21.6			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	3.1	U		3.1	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1221, Solid*	8.8	U		8.8	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1232, Solid*	5.0	U		5.0	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1242, Solid*	7.3	U		7.3	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1248, Solid*	5.0	U		5.0	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1254, Solid*	2.6	U		2.6	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg
	Aroclor 1260, Solid*	2.0	U		2.0	11	1.00000	ug/Kg	13990		03/20/01 2349	pjg

* In Description = Dry Wgt.

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Job Number: 202361

Date: 04/05/2001

LABORATORY TEST RESULTS

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11S8-042-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 10:42
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method 8082	% Solids Determination	83.0			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	17.0			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	2.9	U		2.9	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1221, Solid*	8.3	U		8.3	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1232, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1242, Solid*	6.8	U		6.8	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1248, Solid*	4.7	U		4.7	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1254, Solid*	2.4	U		2.4	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg
	Aroclor 1260, Solid*	1.9	U		1.9	10	1.00000	ug/Kg	13990		03/21/01 0022	pjg

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensen

Customer Sample ID: LL11SB-043-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	% Solids Determination	77.1			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	22.9			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
	PCB Analysis											
	Aroclor 1016, Solid*	3.1	U		3.1	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1221, Solid*	8.9	U		8.9	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1232, Solid*	5.0	U		5.0	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1242, Solid*	7.3	U		7.3	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1248, Solid*	5.0	U		5.0	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1254, Solid*	2.6	U		2.6	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg
	Aroclor 1260, Solid*	2.1	U		2.1	11	1.00000	ug/Kg	13990		03/21/01 0055	pjg

* In Description = Dry Wgt.

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Job Number: 202361

Date: 04/05/2001

LABORATORY TEST RESULTS

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-038-0001-ER
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:31
 Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016	0.15	U	*	0.15	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1221	0.19	U		0.19	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1232	0.12	U		0.12	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1242	0.19	U		0.19	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1248	0.20	U		0.20	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1254	0.15	U		0.15	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg
	Aroclor 1260	0.060	U		0.060	0.25	1.00000	ug/L	13983		03/21/01 0340	pjg

* In Description = Dry Wgt.

**GASOLINE RANGE ORGANICS
RAVENNA AAP - LL#11
JOB# 202361**

Laboratory Chronicle	1
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Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-031A-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 17:00
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-1
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.1 17.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
80156(M)	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO), Solid*	630000			28000	61000	20.0000	ug/Kg	14214		03/22/01 1856	dpk

* In Description = Dry Wgt.

Job Number: 202361			LABORATORY TEST RESULTS				Date: 04/05/2001					
CUSTOMER: MKM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11				ATTN: Stan Levenger					
Customer Sample ID: LL11SB-037-0001-SO Date Sampled.....: 03/13/2001 Time Sampled.....: 15:45 Sample Matrix.....: Soil			Laboratory Sample ID: 202361-2 Date Received.....: 03/14/2001 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO), Solid*	29	U		29	63	1.00000	ug/Kg	14211		03/20/01 1857	dpg

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	81.3 18.7			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO), Solid*	28	U		28	62	1.00000	ug/Kg	14211		03/20/01 2038	dpc

* In Description = Dry Wgt.

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29

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 16:10
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.7 17.3			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO), Solid*	27	U		27	60	1.00000	ug/Kg	14212		03/22/01 1853	dpk

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/05/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.2 17.8			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	TPH - Gasoline Range Organics (GRO) Gasoline Range Organics (GRO), Solid*	28	U		28	61	1.00000	ug/Kg	14211		03/20/01 2145	dpk

* In Description = Dry Wgt.

DIESEL RANGE ORGANICS
RAVENNA AAP - LL #11
JOB# 202361

Laboratory Chronicle.....	01
Chain of Custody.....	06
Case Narrative.....	14
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LABORATORY TEST RESULTS												
Job Number: 202361			Date:04/04/2001									
CUSTOMER: MKM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11						ATTN: Stan Levensger			
Customer Sample ID: LL11SB-031A-0001-SO Date Sampled.....: 03/13/2001 Time Sampled.....: 17:00 Sample Matrix.....: Soil			Laboratory Sample ID: 202361-1 Date Received.....: 03/14/2001 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.1 17.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO), Solid*	2900			77	250	50.0000	mg/Kg	14224		03/26/01 1339	lsm

* In Description = Dry Wgt.

L A B O R A T O R Y T E S T R E S U L T S

Job Number: 202361

Date: 04/04/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-037-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:45
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-2
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO), Solid*	1.6	U		1.6	5.1	1.00000	mg/Kg	14224		03/26/01 1427	lsm

* In Description = Dry Wgt.

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Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/04/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-038-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 15:07
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-3
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	81.3 18.7			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO), Solid*	1.5	U		1.5	5.0	1.00000	mg/Kg	14224		03/26/01 1652	lsm

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 202361

Date: 04/04/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11S8-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.7 17.3			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
8015B(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO), Solid*	1.5	U		1.5	5.0	1.00000	mg/Kg	14224		03/26/01 1740	lsm

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/04/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11S8-040-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	82.2 17.8			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
80158(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO), Solid*	1.5	U		1.5	5.0	1.00000	mg/Kg	14224		03/26/01 1828	lsm

* In Description = Dry Wgt.

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#111

ATTN: Stan Levensger

Customer Sample ID: LL115B-038-0001-ER
Date Sampled.....: 03/13/2001
Time Sampled.....: 13:31
Sample Matrix.....: Water

Laboratory Sample ID: 202361-10
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8015B(M)	Total Extractable Petroleum Hydrocarbons Diesel Range Organics (DRO)	0.094	J	A	0.032	0.14	1.00000	mg/L	14226		03/26/01 2229	lsm

WET CHEMISTRY DATA PACKAGE
RAVENNA AAP - LL#11
JOB# 202361

Data Summary	1
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LABORATORY TEST RESULTS												
Job Number: 202361			Date:04/06/2001									
CUSTOMER: MKM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11						ATTN: Stan Levensger			
Customer Sample ID: LL11SB-037-0001-SO Date Sampled.....: 03/13/2001 Time Sampled.....: 15:45 Sample Matrix.....: Soil			Laboratory Sample ID: 202361-2 Date Received.....: 03/14/2001 Time Received.....: 09:45									
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	79.5 20.5			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
375.4	Sulfate, Turbimetric Sulfate, Solid*	36.3	B		16.9	59.5	1	mg/Kg	13767		03/22/01 1308	jmk
9034/90308	Sulfide, Total Sulfide, Solid*	9.2	U		9.2	29.6	1	mg/Kg	13255		03/19/01 1610	plp
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.083	U		0.083	1.2	1	mg/Kg	13972		03/26/01 1104	kd
9014/90108	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.25	U		0.25	0.50	1	mg/Kg	13800		03/23/01 1524	plp

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 202361			Date:04/06/2001									
CUSTOMER: MCM Engineers, Inc.			PROJECT: RAVENNA AAP-LL#11							ATTN: Stan Levensger		
Customer Sample ID: LL11SB-038-0001-SO Date Sampled.....: 03/13/2001 Time Sampled.....: 15:07 Sample Matrix.....: Soil						Laboratory Sample ID: 202361-3 Date Received.....: 03/14/2001 Time Received.....: 09:45						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	81.3 18.7			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
375.4	Sulfate, Turbimetric Sulfate, Solid*	40.3	B		17.4	61.4	1	mg/Kg	13767		03/22/01 1310	jmk
9034/90308	Sulfide, Total Sulfide, Solid*	8.3	U		8.3	26.8	1	mg/Kg	13255		03/19/01 1615	plp
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.080	U		0.080	1.2	1	mg/Kg	13972		03/26/01 1107	kd
9014/90108	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.18	U		0.18	0.36	1	mg/Kg	13800		03/23/01 1525	plp

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:04/06/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-039-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:10
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-4
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	82.7			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	17.3			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Moisture, Solid											
375.4	Sulfate, Turbimetric Sulfate, Solid*	27.3	B		14.9	52.5	1	mg/Kg	13767		03/22/01 1319	jmk
9034/90308	Sulfide, Total Sulfide, Solid*	9.1	U		9.1	29.2	1	mg/Kg	13255		03/19/01 1620	plp
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.41	B		0.074	1.1	1	mg/Kg	13972		03/26/01 1108	kd
9014/90108	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.24	U		0.24	0.48	1	mg/Kg	13800		03/23/01 1525	plp

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:04/06/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-040-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 16:43
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-5
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination	82.2			0.10	0.10	1	%	13125		03/15/01 0000	pjm
	% Solids, Solid	17.8			0.10	0.10	1	%	13125		03/15/01 0000	pjm
1023.4	% Moisture, Solid											
1011/20308	Sulfate, Turbimetric Sulfate, Solid*	22.7	B		16.5	58.0	1	mg/Kg	13767		03/22/01 1321	jmk
	Sulfide, Total Sulfide, Solid*	8.6	U		8.6	27.5	1	mg/Kg	13352		03/20/01 1330	plp
250.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.54	B		0.083	1.2	1	mg/Kg	13972		03/26/01 1109	kd
0014/20108	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.22	U		0.22	0.44	1	mg/Kg	13800		03/23/01 1528	plp

* In Description = Dry Wgt.

Job Number: 202361

L A B O R A T O R Y T E S T R E S U L T S

Date:04/06/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-041-0001-SO
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 11:30
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-6
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	78.4 21.6			0.10 0.10	0.10 0.10	1 1	%	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
375.4	Sulfate, Turbimetric Sulfate, Solid*	23.0	B		16.4	57.7	1	mg/Kg	13767		03/22/01 1327	jmk
9034./9030B	Sulfide, Total Sulfide, Solid*	9.3	U		9.3	29.9	1	mg/Kg	13352		03/20/01 1337	plp
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.15	B		0.079	1.2	1	mg/Kg	13972		03/26/01 1110	kd
9014./9010B	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.23	U		0.23	0.45	1	mg/Kg	13800		03/23/01 1530	plp

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/06/2001

CUSTOMER: MKM Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levenger

Customer Sample ID: LL11SB-042-0001-SO
Date Sampled.....: 03/13/2001
Time Sampled.....: 10:42
Sample Matrix.....: Soil

Laboratory Sample ID: 202361-7
Date Received.....: 03/14/2001
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	83.0 17.0			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
375.4	Sulfate, Turbimetric Sulfate, Solid*	44.2	B		17.1	60.1	1	mg/Kg	13767		03/22/01 1329	jmk
9034/9030B	Sulfide, Total Sulfide, Solid*	8.4	U		8.4	27.0	1	mg/Kg	13352		03/20/01 1400	plp
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate as N (NO3-N), Solid*	0.14	B		0.077	1.1	1	mg/Kg	13972		03/26/01 1111	kd
9014/9010B	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.24	U		0.24	0.48	1	mg/Kg	13800		03/23/01 1530	plp

* In Description = Dry Wgt.

Job Number: 202361

LABORATORY TEST RESULTS

Date: 04/06/2001

CUSTOMER: MKH Engineers, Inc.

PROJECT: RAVENNA AAP-LL#11

ATTN: Stan Levensger

Customer Sample ID: LL11SB-043-0001-S0
 Date Sampled.....: 03/13/2001
 Time Sampled.....: 13:40
 Sample Matrix.....: Soil

Laboratory Sample ID: 202361-8
 Date Received.....: 03/14/2001
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
Method	% Solids Determination % Solids, Solid % Moisture, Solid	77.1 22.9			0.10 0.10	0.10 0.10	1 1	% %	13125 13125		03/15/01 0000 03/15/01 0000	pjm pjm
375.4	Sulfate, Turbimetric Sulfate, Solid*	22.8	B		17.2	60.6	1	mg/Kg	13767		03/22/01 1331	jmk
9034/9030B	Sulfide, Total Sulfide, Solid*	9.4	U		9.4	30.1	1	mg/Kg	13402		03/20/01 1422	plp
353.2	Nitrogen, NO ₂ , NO ₃ (Auto Cd Red.) Nitrate as N (NO ₃ -N), Solid*	0.15	B		0.086	1.3	1	mg/Kg	13972		03/26/01 1114	kd
9014/9010B	Cyanide (Colorimetric) Cyanide, Total, Solid*	0.23	U		0.23	0.45	1	mg/Kg	13800		03/23/01 1531	plp

* In Description = Dry Wgt.